



VILLAGE OF WILLIAMS BAY

250 Williams Street | PO Box 580 | Williams Bay | WI | 53191 | vi.williamsbay.wi.gov

Phone: 262-245-2700

NOTICE

COMMITTEE MEETINGS

WEDNESDAY, APRIL 12, 2023 AT 6:30 PM

AGENDA

The following agenda items may be considered for Discussion, Consideration, or Action

I. Streets & Highways Committee – Stanek, D'Alessandro, Vlach

- a. Call to Order
- b. Roll Call
- c. Streets & Highways Committee Meeting Minutes of March 15, 2023
- d. Additional Sidewalk on STH 67 - Elkhorn Road
- e. Consideration of an ordinance modifying the Walworth Avenue maximum on street parking hours from 1 hr. to 2 hrs.

345-4 Paragraph B

Walworth Avenue parking. No person shall park a vehicle on Walworth Avenue between Geneva Street and Cherry Street except at an angle on the east side of the street and parallel to the west side of the street between the marked lines. Parking on Walworth Avenue between Geneva Street and Cherry Street shall be limited to not more than ~~one~~ two hour in duration and shall be marked by official "~~one~~ two hour parking zone" signs.

- f. Adjourn

II. Protective Services Committee – Vlach, Umans, Jaramillo

- a. Call to Order
- b. Roll Call
- c. Protective Services Committee Meeting Minutes of March 15, 2023
- d. Hazardous Mitigation Plan (County Wide)
- e. Police Chief's Report
- f. Monthly Numbers
- g. March 2023 EMS Report
- h. Speed Sign Numbers (Q1)
- i. Adjourn

III. Parks & Lakefront Committee – D'Alessandro, Stanek, Wright

- a. Call to Order
- b. Roll Call

- c. Parks & Lakefront Committee Meeting Minutes of March 15, 2023
- d. Recreation Department Reports
- e. Review of Fireworks proposals
- f. Southwick Creek Dredging Project
- g. Adjourn

IV. Finance & Personnel Committee – Wright, D’Alessandro, Umans

- a. Call to Order
- b. Roll Call
- c. Finance & Personnel Committee Meeting Minutes of March 15, 2023
- d. Yoga on the Beach 2023 Municipal Lease
- e. Dip In The Bay 2023 Municipal Lease
- f. ARPA Funds Discussion
- g. Southwick Creek Dredging Project
- h. Additional Sidewalk on STH 67 - Elkhorn Road
 - i. Project Scope and Material Changes - STH 67 - Elkhorn Road
- j. Williams Bay Business Association (WBBA) 2022 Profit and Loss Statement
- k. Consideration of an ordinance modifying the Walworth Avenue maximum on street parking hours from 1 hr. to 2 hrs.

345-4 Paragraph B

*Walworth Avenue parking. No person shall park a vehicle on Walworth Avenue between Geneva Street and Cherry Street except at an angle on the east side of the street and parallel to the west side of the street between the marked lines. Parking on Walworth Avenue between Geneva Street and Cherry Street shall be limited to not more than **one** two hour in duration and shall be marked by official "**one**-two hour parking zone" signs.*

- l. Baird CIP Brochure
- m. Hydro Corp Cross Connection Contract Renewal
- n. Monthly activity of Borrowing projects
- o. Adjourn

V. Water & Sewer Committee – Umans, Jaramillo, Stanek

- a. Call to Order
- b. Roll Call
- c. Water & Sewer Committee Meeting Minutes of March 15, 2023
- d. Engineer's Updates
- e. Public Works Update
- f. Williams Bay US Cellular Lease Amendment
 - g. Project Scope and Material Changes - STH 67 - Elkhorn Road
- h. Adjourn

VI. Building, Zoning & Ordinance Committee – Jaramillo, Vlach, Wright

- a. Call to Order
- b. Roll Call

- c. Building, Zoning & Ordinance Committee Meeting Minutes of March 15, 2023
- d. Proposed draft Ordinance 2023-03 Curfew hours on Friday and Saturday nights
- e. GLEA - Chapter 30 Proposed Draft Ordinance
- f. Consideration of an ordinance modifying the Walworth Avenue maximum on street parking hours from 1 hr. to 2 hrs.

345-4 Paragraph B

Walworth Avenue parking. No person shall park a vehicle on Walworth Avenue between Geneva Street and Cherry Street except at an angle on the east side of the street and parallel to the west side of the street between the marked lines. Parking on Walworth Avenue between Geneva Street and Cherry Street shall be limited to not more than ~~one~~ two hour in duration and shall be marked by official "~~one~~ two hour parking zone" signs.

- g. Adjourn

Requests from persons with disabilities, who need assistance to participate in this meeting or hearing, should be made to the Village Clerk's office in advance so the appropriate accommodations can be made.

Posted: 04/11/2023 4:00 PM
Amended: 4/11/2023 4:30 PM
Posted: 4/11/2023 5:00 PM



VILLAGE OF WILLIAMS BAY

250 Williams Street | PO Box 580 | Williams Bay | WI | 53191 | vi.williamsbay.wi.gov
Phone: 262-245-2700

UNOFFICIAL MINUTES STREETS AND HIGHWAYS COMMITTEE WEDNESDAY, MARCH 15, 2023, AT 6:30 PM VILLAGE HALL COUNCIL ROOM

Call to Order

Meeting was called to order by Chairman Stanek at 6:31pm.

Roll Call

Trustees Stanek, D'Alessandro and Vlach

Also Present: President Duncan, Trustee Umans and Wright, Interim Administrator Bretl, Treasurer Peternell, Director of Public Works Edwards, Police Chief Timm, Recreation Director Rowland, Harbormaster Blincoe and Village Engineer Snyder

Meeting Minutes

Vlach/D'Alessandro motion to approve meeting minutes of February 6, 2023, and February 15, 2023. Motion carried unanimously.

DOT Request Regarding Parking on STH 67

Bretl discussed the proposed WisDOT project along WIS 67, a portion of which resides within the Village of Williams Bay. As is standard for all state highway projects any on street parking along the state highway is 100% the responsibility of the local municipality to pay for as part of the proposed work. The project is a resurfacing project where the parking lanes will receive a similar overlay to maintain the roadway integrity. Based on this proposed scope of work if Williams Bay would like to maintain the parking called out in the attachment the cost would be in today's dollars: \$6,000.

Vlach/D'Alessandro motion to recommend Village Board approval of moving forward with the project. Motion carried unanimously.

DOT Request Regarding Parking on STH 67

Chief Timm recently spoke with Jacob Olt, the engineer overseeing the 67 project. He has been in conversations with the Post Office regarding their large mail truck being able to get mail to their office. Since they closed down the access point on 67, he was hoping to put up "Temporary No Parking" signs on certain sections of Walworth Avenue, just around the area needed to get their large truck into the office. Chief Timm gave him approval to put up the signage. For information only, no action required.

Replacement of certain portions of sidewalk on Highway 67

Following the Highway 67 open house at Village Hall on February 20, Doug Snyder became aware of approximately 15 squares of sidewalk on the west side of Elkhorn Road between Stark Street and Olive Street that represent major trip hazards. Some of the slabs are heaved as much as three inches.

Doug walked the site with Jacob, the DOT project manager and it appeared that the DOT would expand the sidewalk replacement to consider the additional squares. We subsequently learned that the DOT would not perform this work and we are on our own to replace the squares. D'Alessandro/Vlach motion to recommend Village Board approval of replacing portions of the sidewalk on Highway 67.

119 Conference Point Road

Snyder stated that both parties have an agreement, and the work needs to be completed. After the work has been completed, approvals need to be signed by both parties before engineering approval will be granted. It was the consensus of the Committee to wait for all fees to be totaled before billing Jack Sherrier, the property owner of 119 Conference Point.

Cinco De May Road Closure Application

D'Alessandro spoke on behalf of the WBBA regarding the road closure application for the Cinco De Mayo event to be held on May 6, 2023. The request is to close Walworth Ave from Geneva Street to Cherry Street from 6:00am to 6:00pm. Vlach/Stanek motion to recommend Village Board approval to close Walworth Ave from Geneva Street to Cherry Street on May 6, 2023, from 6:00am-6:00pm; D'Alessandro abstained. Motion carried.

TAP Grant

Bretl updated the Committee regarding the upcoming deadline to apply for a TAP grant for the Theatre Road bike path. Dave Hemmerich from Baxter Woodman stated that the project does not fit the criteria and does not recommend applying for the grant.

Adjourn

Vlach/D'Alessandro motion to adjourn at 7:03pm. Unanimously carried.

/s/ Lori Peternell, Village Treasurer

These are not official minutes until approved by the Streets & Highways Committee

April 5, 2023

David Lothspeich, Administrator
Village of Williams Bay
250 Williams Street
Williams Bay, WI 53191

Subject: Additional Sidewalk Replacement on Elkhorn Road

Dear Mr. Lothspeich,

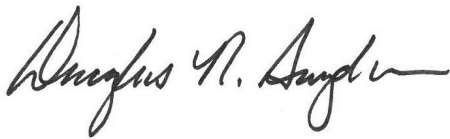
Attached is a packet showing broken and heaving sidewalk sections on Elkhorn Road between Olive Street and Stark Street; the WDOT refused to replace these sections. Also attached is a quote for \$12.50 per square foot from JW Schultz Construction (Schultz).

Schultz is the subcontractor to Payne & Dolan, Inc. that is constructing the concrete improvements under the WDOT contact. Initially this quote appeared high based on their \$6.25 per square foot WDOT bid price. However, that price did not include sidewalk removal being completed by Payne & Dolan. In addition, the City of Burlington recently bid a sidewalk replacement program that included four bidder's ranging from \$9.49 to \$18.40 per square foot. The Burlington scope is similar to the work proposed by Schultz.

Given the above results, we believe that the price from Schultz is reasonable and recommend approval of the quote for \$12.50 per square foot. The estimated quantity is 480 square feet for a cost of \$6,000. The quote assumed a quantity of 750 square feet, but Schultz will only be paid for the sidewalk completed. We ask for a not to exceed amount of \$9,000.

Sincerely,

BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS



Douglas R. Snyder, P.E.

DRS/drs

Encs.

C/encs.: Brett Biwer, PE
Wayne Edwards, DPW

P:\WLMSP\ADDITIONAL SIDEWALK BIDS.DOC

PROPOSAL



JW Schultz Construction Co., Inc.

N2941 Banker Road, PO Box 159, Fort Atkinson, WI 53538
Ph: (920) 568-8699 ~ Fax: (920) 568-8819

jason@jwschultz.net

WE ARE MEMBERS OF LOCALS 139, 464 & 599

Date/Time: 4/4/2023

Project: City Sidewalk Repairs

Location: Williams Bay, Wis

PRICING:

<u>P I N</u>	<u>Description</u>	<u>Quantity</u>	<u>U/M</u>	<u>Unit Price</u>	<u>Extension</u>
	Removal and Replacement of Approx. 750 SF of Sidewalk with NO Restoration on Hwy 67 Between Olive Street & Stark Street on the West Side	750	SF	12.50	\$9,375.00
				Total	\$9,375.00

1 Mobilizations Have Been Included.
NO_ Bond Has Been Included

Exclusions:

~~GC To Provide Base For All Walks & Curbs Unless Otherwise Noted.~~
~~Layout Or Staking By Others.~~

No Backfill Behind Walks Or Curbs, Topsoil, Plantings Or Restorations.

~~No Excavation, Removals Or Saw Cutting Unless As A Pay Item.~~

~~Grade to be +/- .10 From Bottom of Concrete~~

~~Traffic Control For Our Participation Only.~~

~~This Bid is For Work Completed by October 31st. Cold costs shall be added for all work after October 31st.~~

~~Cold Cover Plastic per Layer \$.75 a LF for Curb, \$.35 a SF for Flatwork~~

~~Straw \$.35 a LF For Curb, \$.75 a SF for Flatwork~~

~~Heated Concrete \$.60 a LF for Curb & \$.18 a SF for Flatwork~~

JW SCHULTZ CONSTRUCTION CO., INC.

GENERAL CONTRACTOR

By: _____

By: _____

Date: _____

Date: _____

If You Have Any Questions, Please Call Jason (608) 295-6891. Quote is good for 30 days.

All Bids Received
January 10, 2023

Proposal Call: 015 Proposal ID: 20230110015

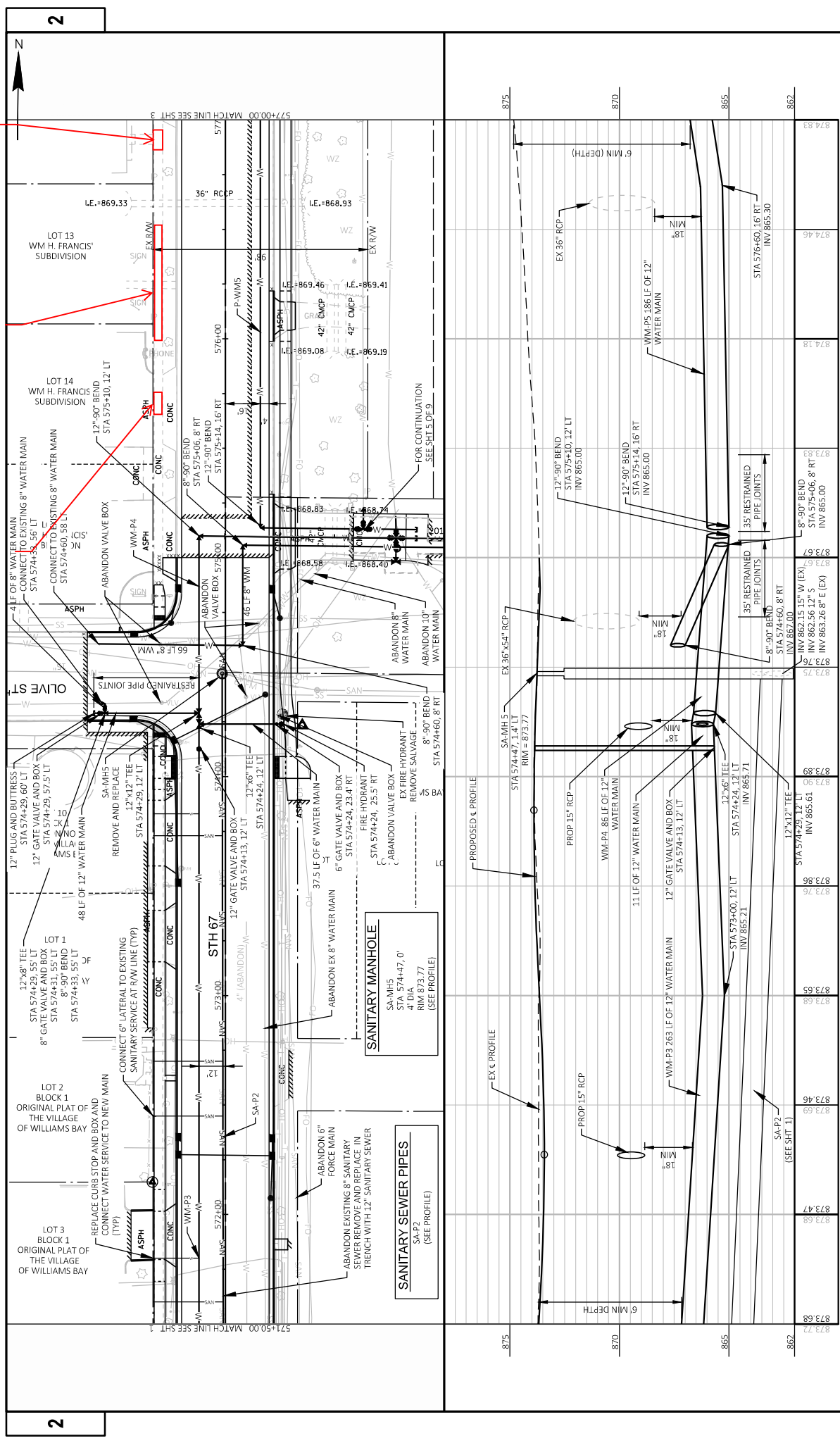
State Project(s): 3325-06-71
3325-06-72

Location: Walworth

Walworth - Elkhorn; Geneva St To Glenwood Dr
STH 067, Walworth County
Walworth - Elkhorn

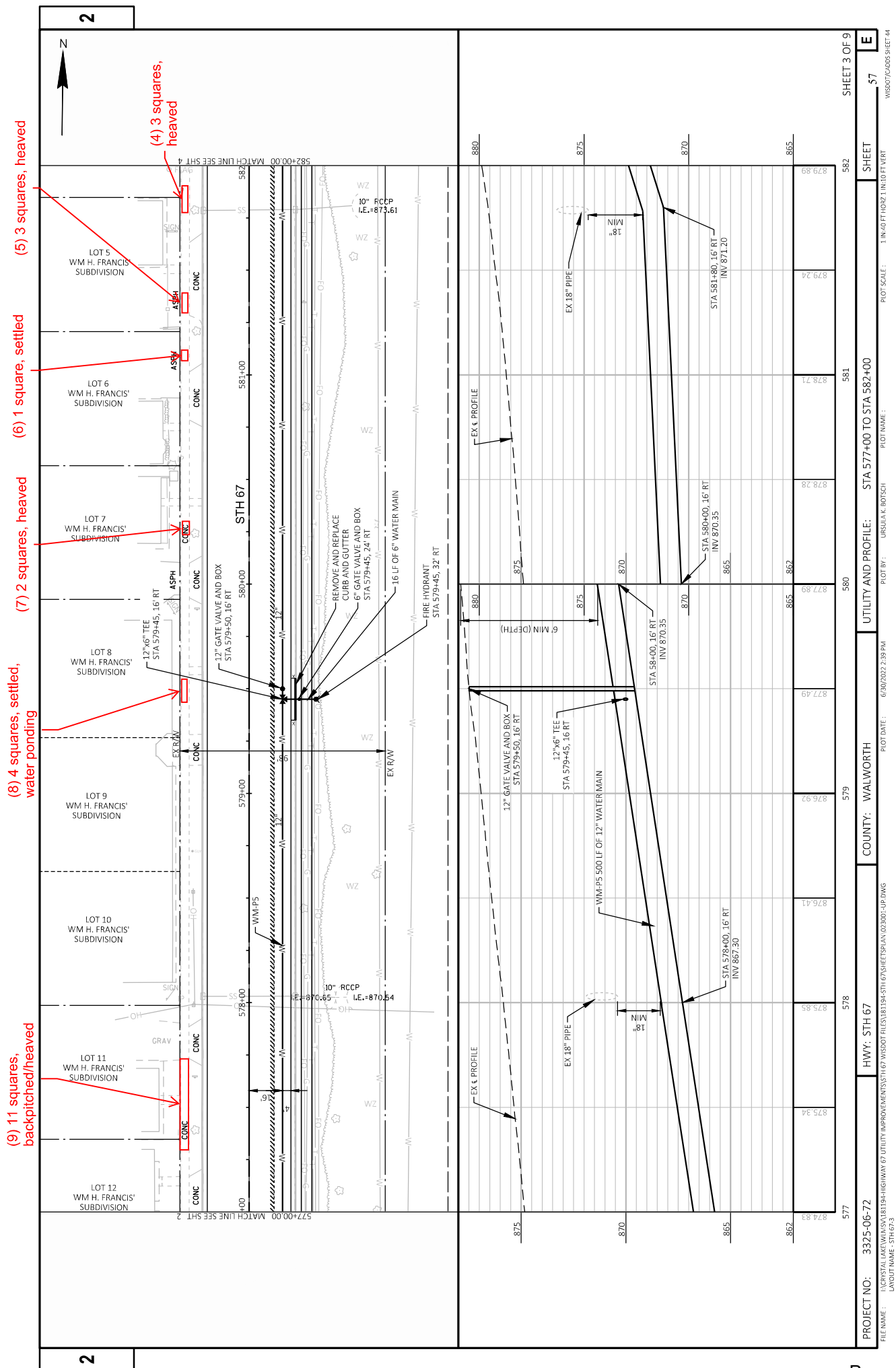
Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1		Bidder No. 2		Bidder No. 3	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2,000	1,607.42	3,214.84	1,600.00	3,200.00	0.00	0.00
522.2634	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	2,000	2,221.59	4,443.18	3,900.00	7,800.00	0.00	0.00
601.0110	Concrete Curb Type D	LF	38,000	50.00	1,900.00	29.19	1,109.22	0.00	0.00
601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,476,000	22.00	54,472.00	27.55	68,213.80	0.00	0.00
601.0600	Concrete Curb Pedestrian	LF	86,000	40.00	3,440.00	46.83	4,027.38	0.00	0.00
602.0410	Concrete Sidewalk 5-Inch	SF	8,900,000	6.25	55,625.00	7.00	62,300.00	0.00	0.00
602.0505	Curb Ramp Detectable Warning Field Yellow	SF	130,000	40.00	5,200.00	41.19	5,354.70	0.00	0.00
602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	12,000	75.00	900.00	94.20	1,130.40	0.00	0.00
606.0200	Riprap Medium	CY	82,000	78.61	6,446.02	176.00	14,432.00	0.00	0.00
608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	243,000	99.54	24,188.22	130.00	31,590.00	0.00	0.00
608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	192,000	105.93	20,338.56	145.00	27,840.00	0.00	0.00
611.0535	Manhole Covers Type J-Special	EACH	3,000	625.78	1,877.34	550.00	1,650.00	0.00	0.00
611.0624	Inlet Covers Type H	EACH	7,000	846.27	5,923.89	816.00	5,712.00	0.00	0.00
611.0639	Inlet Covers Type H-S	EACH	12,000	644.52	7,734.24	614.00	7,368.00	0.00	0.00
611.2004	Manholes 4-FT Diameter	EACH	1,000	2,683.83	2,683.83	2,053.00	2,053.00	0.00	0.00
611.2005	Manholes 5-FT Diameter	EACH	1,000	5,383.29	5,383.29	3,100.00	3,100.00	0.00	0.00
611.3004	Inlets 4-FT Diameter	EACH	4,000	2,929.21	11,716.84	2,037.00	8,148.00	0.00	0.00
611.3230	Inlets 2x3-FT	EACH	12,000	2,418.49	29,021.88	1,800.00	21,600.00	0.00	0.00
611.8110	Adjusting Manhole Covers	EACH	9,000	614.12	5,527.08	350.00	3,150.00	0.00	0.00
611.8115	Adjusting Inlet Covers	EACH	1,000	504.92	504.92	350.00	350.00	0.00	0.00

(12) 3 squares, cracked, driveway
 (11) 14 squares, backpitched/heaved
 (10) 2 squares, cracked



STATION	571+50	572	573	574	575	576	577
ELEVATION	873.68	873.47	873.69	873.46	873.65	873.76	873.86
INVERT	873.68	873.47	873.69	873.46	873.65	873.76	873.86
WATER MAIN	12" LF OF 12" WATER MAIN	12" LF OF 12" WATER MAIN	12" LF OF 12" WATER MAIN	12" LF OF 12" WATER MAIN	12" LF OF 12" WATER MAIN	12" LF OF 12" WATER MAIN	12" LF OF 12" WATER MAIN
VALVE	12" GATE VALVE AND BOX	12" GATE VALVE AND BOX	12" GATE VALVE AND BOX	12" GATE VALVE AND BOX	12" GATE VALVE AND BOX	12" GATE VALVE AND BOX	12" GATE VALVE AND BOX
MANHOLE	SA-P2 (SEE SHT 1)	SA-P2 (SEE SHT 1)	SA-P2 (SEE SHT 1)	SA-P2 (SEE SHT 1)	SA-P2 (SEE SHT 1)	SA-P2 (SEE SHT 1)	SA-P2 (SEE SHT 1)
OTHER							

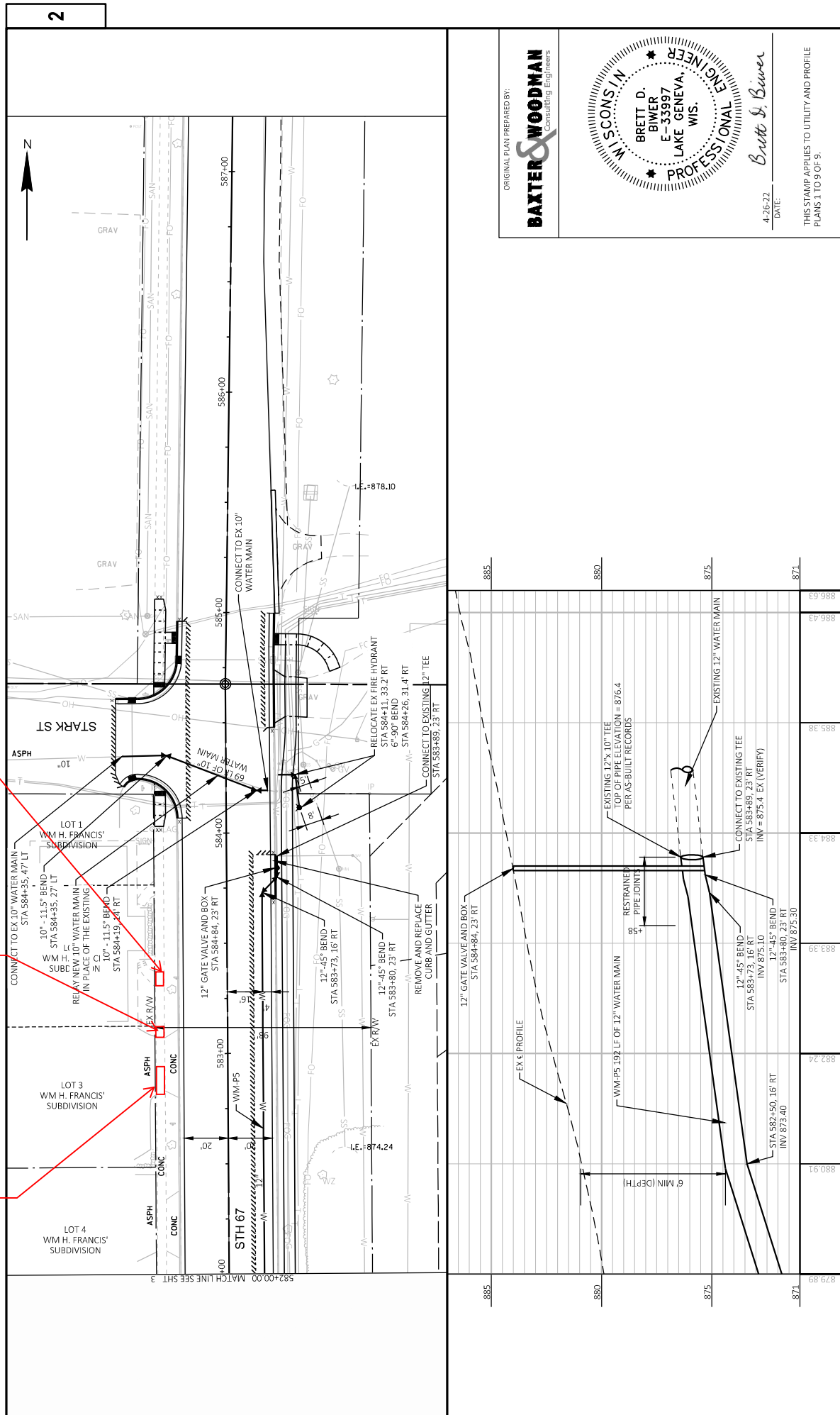
PROJECT NO: 3325-06-72
 COUNTY: WALWORTH
 HWY: STH 67
 UTILITY AND PROFILE: STA 571+50 TO STA 577+00
 SHEET: 56
 SHEET 2 OF 9
 FILE NAME: I:\CRYSTAL LAKE\WALWORTH\HIGHWAY 67 UTILITY IMPROVEMENTS\STH 67\WISDOT FILES\181394-SHT 67\UTILITY\PLAN\0300-UP.DWG
 LAYOUT NAME: STH 67
 PLOT DATE: 6/30/2022 2:38 PM
 PLOT BY: URSLA, K. ROTSCH
 PLOT NAME: STA 571+50 TO STA 577+00
 PLOT SCALE: 1 IN=40 FT HORIZ, 1 IN=10 FT VERT
 WISDOT/CADSW 9-EE7-14



(3) 1/2 driveway apron, cracked

(2) 1 square, settled

(1) 1 square, cracked



ORIGINAL PLAN PREPARED BY:
BAXTER & WOODMAN
 Consulting Engineers

WISCONSIN PROFESSIONAL ENGINEER
 BRETT D. BIWER
 E-33987
 LAKE GENEVA, WIS.

DATE: 4-26-22
 THIS STAMP APPLIES TO UTILITY AND PROFILE PLANS 1 TO 9 OF 9.

Brett D. Biwer



2,3





5









6



9

10





12

Village of Williams Bay, WI
Monday, April 10, 2023

Chapter 345. Vehicles and Traffic

§ 345-4. Parking restrictions.

A. Restrictions.

- (1) Boat launch parking. No person shall park or leave standing a vehicle or trailer in the boat launch parking lot in a manner that is contrary to the restrictions that the Village Board may impose on the parking of vehicles and trailers and which are listed on the official signs that are posted in that parking lot by the Village of Williams Bay.
- (2) Penalty for violation of § **345-4A(1)** shall be as follows: the penalty provisions of this Code of Ordinances, § **1-4** herein, shall apply except for a violation of § **345-4A(1)** a minimum forfeiture of \$25.

B. Walworth Avenue parking. No person shall park a vehicle on Walworth Avenue between Geneva Street and Cherry Street except at an angle on the east side of the street and parallel to the west side of the street between the marked lines. Parking on Walworth Avenue between Geneva Street and Cherry Street shall be limited to not more than one hour in duration and shall be marked by official "one-hour parking zone" signs.

C. Other regulations.

- (1) Parking meters. When any vehicle is parked in a parking meter zone, the vehicle operator shall deposit or cause to be deposited a coin of the denomination indicated and put such meter in operation. Failure to deposit such coin and put the meter in operation is prohibited.
- (2) One- or two-hour zones. When signs have been erected upon any street indicating that stopping, standing and parking is limited to one hour, limited to two hours or is prohibited during designated hours as specified thereon, no person shall park any vehicle on such street in violation of any such signs.
- (3) Double parking. No operator of any vehicle shall stop, stand or double park in a roadway other than parallel with the edge of curb of the roadway headed in the direction of lawful traffic movement.
- (4) Blocking alley. No operator of any vehicle shall stop, stand or park such vehicle within an alley in such position as to block the driveway or entrance to any abutting property.
- (5) Blocking driveway. No operator of any vehicle shall stop, stand or park at any place where the standing of any vehicle will block the use of any driveway.
- (6) Wrong side of street. No person shall stand or park a vehicle in a roadway other than parallel with the edge of curb of the roadway headed in the direction of lawful traffic movement.
- (7) Winter night parking restrictions. No person shall park, stop or leave standing any vehicle on any Village street between 2:00 a.m. and 6:00 a.m. from November 15 of each year to April 15 of the following year. Signs shall be erected at or reasonably near the corporate Village limits as provided in § 349.13, Wis. Stats., advising of the existence of this subsection. Permission for parking for guests of residents may be granted by the Police Department on a per-night basis for not more than 14 consecutive days for any one person or vehicle. Such permission

may be granted by the Police Department upon a phone notification for not more than three days. If request is made for permission to park for more than three days, applicant shall complete an appropriate application at the Police Department for such purpose.

- (8) Parking during snow emergencies. Whenever the Chief of Police shall, by reason of heavy snow storm or blizzard, proclaim a snow emergency pursuant to § 323.11, Wis. Stats., no person shall park, stop or leave standing any vehicle upon the streets or any portions of the streets during the hours as set forth in the proclamation.
- (9) Fire hydrant. No operator of any vehicle shall stop, stand or park such vehicle at any curb within 10 feet of a fire hydrant.
[Amended at time of adoption of Code (see Ch. 1, General Provisions, Art. II)]
- (10) No-parking zone. No operator of any vehicle shall stop, stand or park at any place where official signs have been erected indicating a no-parking zone.
- (11) Improper parking. No person shall park any vehicle upon a street in such manner or under such conditions as to leave available less than 18 feet of the width of the roadway for free movement of vehicular traffic on a two-way street or less than 10 feet of the width of the roadway for free movement of vehicular traffic on a one-way street.
- (12) Yellow line. No operator of any vehicle shall stop, stand or park in any area along the curbing that has been striped yellow.
- (13) Official signs. No person shall park a vehicle contrary to the notice specified on such sign.
- (14) Parking on crosswalk or intersection. No operator of any vehicle shall stop, stand or park within 15 feet of a crosswalk or intersection, except in a roadway marked with lines designating parking spaces.
- (15) Parking at or opposite fire station. No operator of any vehicle shall stop, stand or park such vehicle at any place within 20 feet of the entrance to any fire station, and on the side of any lot opposite the entrance to any fire station within 75 feet of such entrance.
- (16) Parking on sidewalk. No operator of any vehicle shall stop, stand or park such vehicle on any sidewalk.
- (17) Parking in private parking lot. No person not so entitled shall park a vehicle in a private parking lot unless authorized by order of the custodian.
- (18) Parking in public parking lot. No person shall park a vehicle upon any property owned by a company or the Village and used for the transaction of public business where such parking is prohibited by order of the custodian of such property.
- (19) Parking obstructing traffic. The operator of a vehicle shall not operate such vehicle to allow the same to remain upon any street in such a manner as to form an unreasonable obstruction to the traffic thereon.
- (20) Handicapped parking. Except for a motor vehicle used by a physically disabled person as defined under § 346.503(1), Wis. Stats., no person may park, stop or leave standing any vehicle, whether attended or unattended and whether temporarily or otherwise, upon any portion of a street, highway or parking facility reserved, by official traffic signs indicating the restriction, for vehicles displaying special registration plates issued under § 341.14(1), (1a), (1e), (1m) or (1q), Wis. Stats., or a special identification card issued under § 343.51, Wis. Stats., or vehicles registered in another jurisdiction and displaying a registration plate, card or emblem issued by the other jurisdiction which designates the vehicle as a vehicle used by a physically disabled person. The penalty provisions of this Code, § 1-4 herein, shall apply, except the minimum forfeiture upon conviction of this § **345-4C(20)** shall be \$150 and the maximum forfeiture shall be \$300, together with cost of prosecution.
[Amended at time of adoption of Code (see Ch. 1, General Provisions, Art. II)]

- (21) Semi-tractor, trailer parking. Semitrailers, tractor semitrailers or truck tractors, as defined in § 340.01, Wis. Stats., shall not park on any Village street, except that such vehicles may park on the street for the purpose of loading or unloading and only during such time while actively engaged in loading or unloading the vehicle.
- (22) Payment of municipal fees required. No person shall park or leave standing any vehicle on any street or public parking area belonging to or leased by the Village after having obtained a municipal benefit or a municipal service without first paying the required fee for the use or benefit thereof. The owner of a vehicle involved in a violation of this subsection shall be liable for a violation hereof subject to the defenses to the owner defined and described in § 346.485(5)(b), Wis. Stats. This subsection shall be enforced using the nonmoving traffic violation procedure set forth in § 345.28, Wis. Stats., with the forfeiture to be \$55 for a violation of this subsection.
- (23) Terrace or parkway. No person shall park, stop or leave standing any vehicle or trailer on any Village terrace or parkway where curb and gutter are installed. "Terrace or parkway" is defined as the area between the curb and the sidewalk or, if sidewalk is not installed, the area between the curb and the abutting property line.
- (24) Street maintenance.
 - (a) Whenever it is necessary to maintain, repair or restore a Village street or highway or any part thereof, the Chief of Police shall post appropriate signs bearing the words "No Parking - Street Maintenance Work."
 - (b) Such signs shall be erected at least two hours prior to the time street or highway maintenance, repair or restoration work is to be commenced and shall remain in place until all maintenance, repair or restoration work is completed. The street or highway shall include the berm, shoulder, terrace and all areas within the public right-of-way involved in the maintenance, repair or restoration of the street or highway. No person shall park a motor vehicle in violation of such signs.
- (25) Resident parking lots. No person shall park a vehicle in a parking lot or other parking area marked by official signs indicating that lot or parking area is restricted for use by residents vehicles properly displaying resident parking permits. Resident parking permits shall be affixed to the vehicle for which they are issued in the manner prescribed by the Village at the time of issuance.
- (26) Extended parking of trailers prohibited. No person shall park, stop, or leave standing a trailer as defined by § 340.01(71), Wis. Stats., on any Village street for a period of time in excess of 24 hours.
- D. Parking permitted along Collie Street adjacent to school. Parking in designated parking spots along the west side of Collie Street is permitted during the hours of 7:30 a.m. to 4:30 p.m. during school days from the intersection of Hickory Street north to a point 139 feet south of the intersection of Collie Street and Congress Street.
- E. Removal of illegally parked vehicles.
 - (1) Hazard to public safety. Any vehicle parked, stopped or standing in violation of any of the provisions of this chapter is declared to be a hazard to traffic and public safety.
 - (2) Removal by operator. Such vehicle shall be removed by the operator in charge, upon request of any traffic officer, to a position where parking is permitted or to a private or public parking or storage premises.
 - (3) Removal by traffic officer. Any traffic officer, after issuing a citation for illegal parking, stopping or standing of an unattended vehicle in violation of this chapter, is authorized to remove such vehicle to a position where parking is permitted.

- (4) Removal by private services. The officer may order a motor carrier holding a permit to perform vehicle towing services, a licensed motor vehicle salvage dealer or a licensed motor vehicle dealer who performs vehicle towing services to remove and store such vehicle in any public storage garage or rental parking grounds or any facility of the person providing the towing services.
 - (5) Towing and storage charges. In addition to other penalties provided by this chapter, the owner or operator of a vehicle so removed shall pay the actual cost of moving, towing and storage. If the vehicle is towed by the Police Department, a charge as set forth on a schedule of charges established by the Village Board shall be paid for such towing. If the vehicle is towed or stored by a private motor carrier, motor vehicle salvage dealer or licensed motor vehicle dealer, actual charges regularly paid for such services shall be paid. If the vehicle is stored in a public storage garage or rental facility, customary charges for such storage shall be paid. Upon payment, a receipt shall be issued to the owner of the vehicle for the towing or storage charge.
- F. Registration record of vehicle as evidence. When any vehicle is found in violation of any provision of this chapter regulating the stopping, standing or parking of vehicles and the identity of the operator cannot be determined, the owner as shown by the ownership registration of the vehicle supplied by the Wisconsin Department of Transportation, or a comparable authority of any other state, shall be deemed to have committed the violation for purposes of enforcement of this chapter and shall be subject to the applicable forfeiture penalty; provided, the defenses defined and described in § 346.485(5)(b), Wis. Stats., shall be a defense for an owner charged with such violation.
- G. Removal of parking citations prohibited. No person, other than the owner or operator thereof, shall remove a parking violation or citation from a motor vehicle.



VILLAGE OF WILLIAMS BAY

250 Williams Street | PO Box 580 | Williams Bay | WI | 53191 | williamsbay.org
Phone: 262-245-2700

UNOFFICIAL MINUTES PROTECTIVE SERVICES COMMITTEE WEDNESDAY, MARCH 15, 2023, AT 6:30 PM VILLAGE HALL COUNCIL ROOM

Call to Order

Meeting was called to order by Chairman Vlach at 7:03pm

Roll Call

Trustees Vlach, Jaramillo and Umans

Also Present: President Duncan, Trustees D'Alessandro, Stanek and Wright, Interim Administrator Bretl, Treasurer Peternell, Director of Public Works Edwards, Police Chief Timm, Recreation Director Rowland, Harbormaster Blincoe and Engineer Snyder.

Meeting Minutes

Umans/Vlach motion to approve the meeting minutes of February 15, 2023. Jaramillo abstained; motion carried.

December 2022 EMS Report

The Committee reviewed the December 2022 EMS Report.

January 2023 EMS Report

The Committee reviewed the January 2023 EMS Report.

February 2023 EMS Report

The Committee reviewed the February 2023 EMS Report.

Monthly Numbers

The Committee reviewed the February 2023 Police Activity.

Adjourn

Umans/Jaramillo motion to adjourn at 7:14pm. Unanimously carried.

/s/ Lori Peternell, Village Treasurer

These are not official minutes until approved by the Protective Services Committee

NATURAL HAZARDS MITIGATION PLAN: 2022-2026



WALWORTH COUNTY, WISCONSIN

County Adoption: ____, 2023

ACKNOWLEDGEMENTS

Sheriff Kurt Picknell

Mark Lubberda, County Administrator

County Board Supervisors by District

- Rick Stacey, District 1
- Joseph H. Schaefer, District 2
- Brian Holt, District 3
- Jerry Grant, Vice Chair, District 4
- Ryan G. Simons, District 5
- Kathy Ingersoll, District 6
- David A. Weber, District 7
- Daniel G. Kilkenny, District 8
- Susan M. Pruessing, District 9
- Kenneth H. Monroe, District 10
- Nancy Russell, Chair, District 11

Executive Committee

- Dave Weber, Chair
- Daniel Kilkenny, Vice-Chair
- Brian Holt
- Susan Pruessing
- Nancy Russell

2021/22 – Working Group

- Todd Lindert, Emergency Management Coordinator; City of Whitewater
- Robert Williams, Public Works Supervisor; Town of Darien
- James Bushey, Police Chief; Town of Linn
- Thomas Lorden, Town Supervisor; Town of Troy
- Jeremy Swendrowski, Chief of Police; Village of East Troy
- Jeff Cates, Police Chief; Village of Fontana
- Joan Sallee, Village Trustee; Village of Walworth
- Justin Timm, Chief of Police; Village of Williams Bay

2013 – Working Group

- Joseph Balog, Police Chief; Village of Genoa City
- Richard Brandl, Town Chairman; Town of Sharon
- James Bushey, Sgt. Linn Police; Town of Linn
- Michael Ciardo, EM Coordinator, retired; City of Whitewater
- Daniel Cooper, Town Chairman; Town of La Fayette
- Lieutenant John R. Ennis; Walworth County Sheriff's Department, Emergency Management Director
- David Fladten, EMT Coordinator; Village of Fontana
- Kelly Hayden, Village Administrator; Village of Fontana
- John Kendall, Town Chairman; Town of Troy
- John Peters, Deputy Director EM; City of Lake Geneva
- Chris F. Severt, Police Chief; Village of Walworth
- Bill Shimmer, Highway Supervisor, retired; Town of Darien
- Jeff Stein, Fire Chief; Village of Mukwonago
- Tom Sullivan, Supervisor; Town of Bloomfield
- Donald Teubel, Town of East Troy
- Randy Timms, President; Village of East Troy

2009 – Working Group

- Michael Carder; Walworth County Public Health
- Michael Ciardo; City of Whitewater, Emergency Management Coordinator
- Michael Cotter; Walworth County Corporation Counsel, Deputy Corporation Counsel
- William Holder; Town of Bloomfield, Supervisor
- Rusty Kapela; National Weather Service Forecast Office, Milwaukee/Sullivan, Meteorologist
- Mark Mullikin; Walworth County Public Works Department, Public Works Superintendent
- Wayne Redenius; Town of Richmond, Chair
- Chris F. Severt; Village of Walworth, Emergency Services Director
- Lieutenant Kevin Williams; Walworth County Sheriff's Department, Emergency Management Director
- Allen Zimmerman; Walworth County Sheriff's Department, Retired (LEPC)

Project Supervision

- Lieutenant Kevin Williams, former Emergency Management Director, served as project supervisor for Walworth County for the initial plan adopted in 2009.
- Lieutenant John R. Ennis, former Emergency Management Director, served as project supervisor for the 2014-2018 plan update.
- Lieutenant Jason W. Rowland, Emergency Management Director, served as project supervisor for the 2021-2025 plan update.

Funding

Partial funding for the preparation of the initial plan and plan updates was provided by Wisconsin Emergency Management through a grant from the federal Pre-Disaster Mitigation Program.

Consultant

Civi Tek Consulting prepared the initial plan and the plan updates under the supervision of Tim Schwecke.

FORWARD

The *Walworth County Natural Hazard Mitigation Plan: 2022-2026* consists of six chapters and a map series. The first chapter provides an overview of the plan. The second chapter presents background information about Walworth County including its setting, demographic and economic characteristics, climate, natural resources, land use, and development trends. Chapter 3 presents background information related to special needs populations and groups in the county. Chapter 4 contains a complete inventory of critical facilities in the county. Natural hazards are reviewed in chapter 5 along with estimated losses to buildings, infrastructure, and critical facilities. In chapter 6, goals, objectives, and policies are identified that will help to craft appropriate solutions to the identified problems. A range of activities are also presented to help foster hazard mitigation efforts. Various funding sources are reviewed with an eye towards identifying options for funding identified projects. Most of the maps in the plan are included in the final section of the plan.

Walworth County adopted a multi-jurisdictional plan in 2009, which was initially approved by the Federal Emergency Management Agency (FEMA) on July 9, 2009. This plan is the second five-year update of that initial plan and was updated to reflect the best available background information and to confirm goals, objectives, and policies.

This version is intended to guide mitigation planning efforts in Walworth County during the five-year period from 2022 through 2026.

Table of Contents

1.	Introduction	
	Chapter Overview	1-1
	Purpose	1-1
	Scope	1-1
	Contents	1-2
	Relationship of Mitigation Planning to Other Emergency Management Activities	1-2
	Relationship to Other Plans	1-3
	Plan Preparation, Review, and Adoption	1-4
	Plan Maintenance and Amendment	1-6
	Incorporating this Plan into other Planning Efforts	1-7
	Entities Involved In Mitigation	1-8
	Governmental Units Adopting this Plan	1-8
2.	Planning Area Profile	
	Chapter Overview	2-1
	Regional Context	2-1
	Units of Government	2-2
	Population	2-2
	Housing	2-4
	Transportation	2-5
	Land Use	2-6
	Climate	2-6
	Physiographic Features	2-7
	Topography	2-7
	Surface Water	2-8
	Groundwater	2-9
3.	Special Needs Populations and Groups	
	Chapter Overview	3-1
	Elderly	3-1
	People with Disabilities	3-1
	Homeless Individuals	3-2
	Populations with Language Barriers	3-2
	People Living in Manufactured and Mobile Homes	3-3
	People in Campgrounds	3-3
	Residents in Group Quarters	3-4
4.	Critical Facilities	
	Chapter Overview	4-1
	Bridges	4-1
	Dams	4-3
	Public-Use Airports	4-3
	Communication Towers	4-3
	Electric Facilities	4-3
	Natural Gas Facilities	4-3
	Petroleum Pipeline Facilities	4-3
	Public Water Facilities	4-4
	Wastewater Facilities	4-4
	Fire and Police Facilities	4-4
	National Guard Facilities	4-4
	Government Facilities	4-4
	Schools	4-4
	Special Care Facilities - Residential	4-4
	Special Care Facilities - Nonresidential	4-5
	Health Care Facilities	4-5
	Vulnerable Housing	4-5
	American Red Cross Shelters	4-5

5.	Natural Hazards Assessment	
	Chapter Overview	5-1
	Hazard Identification	5-1
	History of Weather-Related Events	5-5
	Presidential Declarations	5-5
	Dam Failure	5-7
	Flooding	5-9
	Ice Shoves	5-19
	Dense Fog	5-20
	Tornado	5-21
	Hailstorms	5-24
	Thunderstorms	5-25
	Winter Storms	5-26
	Extreme Heat	5-27
	Extreme Cold	5-30
	Drought	5-30
	Wildland Fire	5-33
	Summary of Risk by Jurisdiction	5-34
	Summary of Damage Estimates	5-35
6.	Mitigation Strategy	
	Chapter Overview	6-1
	Types of Potential Mitigation Strategies	6-1
	Existing Mitigation Strategies	6-3
	Funding Sources	6-12
	Review of Capabilities	6-14
	Goals, Objectives, Policies, and Activities	6-15
7.	Map Series	
	1 Surface Transportation: 2021	
	2 Surface Water: 2021	
	3 Campgrounds and Mobile Home Parks: 2021	
	4 Bridges and Dams: 2021	
	5 Airports and Railroads: 2021	
	6 Telecommunication: 2021	
	7 Energy Facilities: 2021	
	8 Public Water and Wastewater Facilities: 2021	
	9 Public Safety Facilities: 2021	
	10 Government Facilities: 2021	
	11 Schools: 2021	
	12 Special Care Residential Facilities: 2021	
	13 Special Care Nonresidential Facilities: 2021	
	14 Health Care Facilities: 2021	
	15 Structures in 100-Year Floodplain: 2008	
8.	Appendices	
	A Public Participation Documentation	
	B Adoption Resolutions	
	C Certification Letters	
	D History of Adoption and Amendment	
	E Critical Facilities Sorted by Type: 2021	
	F Critical Facilities Sorted by Jurisdiction: 2021	
	G Weather-Related Events: 1950 through May 2019	
	H Methodology for Estimating Flood Damage (2008)	
	I Estimated Flood Damage to Buildings: 2008	

INTRODUCTION

1. CHAPTER OVERVIEW

This chapter introduces the need for this plan by making the case that natural disasters have historically caused substantial damage to people and property in Walworth County and that while it is not possible to prevent natural disasters from occurring, it is possible to better position a community to mitigate the effects of natural disasters. The purpose and scope of this plan are described so that it is clear what this document is intended to do and how it relates to other previous planning efforts and ongoing emergency management activities. The ways in which the general public and local units of government were involved in the preparation, review, and adoption of this plan are documented. A procedure for keeping this document current is described. In the final section, those governmental units adopting this plan are listed.



2. PURPOSE

It's fair to say that most people do not think about natural disasters until they are personally affected in some way. When a significant event does strike, the general public most often looks to government at all levels and non-governmental organizations, like the American Red Cross, for assistance. Likewise, local units of government look to state agencies and the federal government for financial help and assistance. Depending on the scale of the natural disaster, assistance can be short-term or on-going over an extended period of time.

Throughout the United States, government response and associated costs have grown significantly. At the federal level, the average annual loss from natural disasters was \$3.3 billion between 1989 and 1993. Between 1994 and 1998, that figure rose to \$13 billion.

In an effort to curb rising costs, the federal government adopted the Disaster Mitigation Act of 2000 (DMA 2000). It amended the Robert T. Stafford Disaster Relief and Emergency Act, which is the primary law at the federal level dealing with disaster planning, mitigation, response, and recovery.

DMA 2000 reinforced the importance of hazard mitigation planning to proactively devised strategies intended to avoid and reduce the negative effects of natural disasters. If a community wants to apply for grant funding from the Pre-Disaster Mitigation (PDM) Program or the Hazard Mitigation Grant Program (HMGP), it must have an approved hazard mitigation plan. If a disaster strikes a community that does not have an approved plan, it can only receive funding through HMGP if it agrees to prepare a plan within one year.

Walworth County and participating municipalities have prepared this plan to meet this new requirement, and in so doing, help its citizens mitigate the effects of natural disasters.

3. SCOPE

The scope of this plan is limited to natural hazards that pose a threat to people and property in Walworth County. It does not address threats of terrorism or man-made hazards, such as HAZMAT incidents.

Chapter Contents

- | | |
|-----|--|
| 1. | Chapter Overview |
| 2. | Purpose |
| 3. | Scope |
| 4. | Contents |
| 5. | Relationship of Mitigation Planning to Other Emergency Management Activities |
| 6. | Relationship to Other Plans |
| 7. | Plan Preparation, Review, and Adoption |
| 8. | Plan Maintenance and Amendment |
| 9. | Incorporating this Plan into other Planning Efforts |
| 10. | Governmental Units Adopting this Plan |

4. CONTENTS

This plan includes a number of elements. The first section provides an overview of the project. The second reviews the background information about the county including its setting, demographic and economic characteristics, climate, natural resources, architectural and historic resources, land use, and development trends. In the third section, the plan addresses special needs populations and groups. The fourth details the critical facilities while the fifth outlines natural hazards. In the sixth chapter the recommended mitigation strategy for the County and its individual jurisdictions is presented. A series of maps is included in the last chapter.

5. RELATIONSHIP OF MITIGATION PLANNING TO OTHER EMERGENCY MANAGEMENT ACTIVITIES

Mitigation planning is one prong of a multi-faceted approach to emergency management (Exhibit 1-1). Each of these are briefly described to help provide context for this plan.

MITIGATION

Mitigation is any activity that is proactively done to reduce a community's vulnerability of damage from future disasters. Mitigation is the focus of this plan.

PREPAREDNESS

Emergency preparedness focuses exclusively on creating effective strategies and procedures to respond to an emergency. It includes creating the institutional framework for response and protocol for decision making, conducting training of emergency response personnel, ensuring equipment is available and operational, and developing and maintaining an appropriate communications network.

Walworth County has a well-established and tested emergency operations plan. It identifies a decision making structure and areas of responsibility depending on the nature of the emergency.

RESPONSE

Response includes any action taken immediately before, during, and after an event to save lives and minimize property damage.

RECOVERY

Although the extent and type of recovery efforts will vary with the nature and extent of the event, they focus on restoring support services and infrastructure and helping those affected to regain a sense of normalcy.

It is important to recognize that each of these areas focuses on different aspects of emergency management, but that the effectiveness of each depends on an integrated systems approach.

Key Terms in This Chapter

Disaster Mitigation Act of 2000 (DMA 2000) – A

federal law (P.L. 106-390) amending the Robert T. Stafford Disaster Relief and Emergency Act. The act authorizes the president to establish (1) a program of technical and financial assistance to the states and local governments to assist in the implementation of pre-disaster hazard mitigation measures; (2) the National Predisaster Mitigation Fund; and (3) an interagency task force. It requires state, local, or tribal governments to develop predisaster hazard mitigation plans as a precondition of receiving certain federal funds and controls and streamlines the cost of disaster assistance.

Federal Emergency Management Agency (FEMA)

– A federal agency created in 1979 with a mission to reduce loss of life and property and protect our nation's critical infrastructure from all types of hazards through a comprehensive, risk-based emergency management program of mitigation, preparedness, response, and recovery. In March 2003, it was placed under the Department of Homeland Security.

Hazard mitigation plan – A plan prepared at the

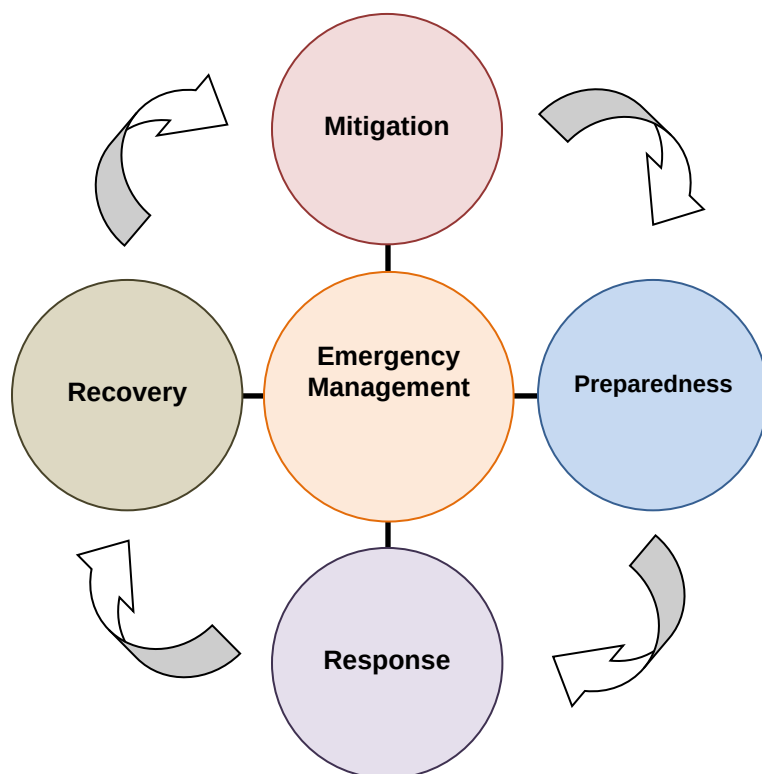
state or local level that systematically evaluates policies, actions, and tools, and sets goals for implementation over the long term that will result in a reduction in risk and minimize future losses in a community.

Hazard Mitigation Grant Program (HMGP) – A

federal program administered by the Federal Emergency Management Agency intended to prevent future losses of lives and property due to disasters; to implement state or local hazard mitigation plans; to enable mitigation measures to be implemented during immediate recovery from a disaster; and to provide funding for previously identified mitigation measures to benefit the disaster area. It was authorized under Section 404 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act.

Wisconsin Emergency Management (WEM) – A

state agency that specializes in hazard mitigation, warning and communications, emergency police services, disaster response and recovery, hazardous materials & EPCRA, radiological emergency preparedness, and exercise and training.

Exhibit 1-1. Emergency Management**6. RELATIONSHIP TO OTHER PLANS**

The following plans, studies, and reports were reviewed in preparing this plan:

- ◆ **Smart Growth Comprehensive Plans** Walworth County adopted the 2035 Multi-jurisdictional Comprehensive Plan in 2009 which was updated in June of 2019. In addition to a countywide plan, a number of municipalities have adopted comprehensive plans.
- ◆ **Walworth County Land and Water Resources Management Plan** This plan is intended to help the Walworth County Land Conservation Committee and county staff define and chart actions and activities that can be cooperatively undertaken by agencies, organizations, and residents to protect the county's land and water resources. The plan serves to target staff and financial resources on those land and water management issues county residents are most concerned about. It was last amended in 2020.
- ◆ **Walworth County Hazards Analysis** This document identifies those hazards that have or could occur in the county. It also describes each hazard, its frequency of occurrence, and actions being taken to mitigate the hazard. It was last updated September 2014.
- ◆ **Walworth County Hazardous Materials Response Plan** Walworth County has a hazardous materials response plan which identifies the

policies and procedures for responding to hazardous materials incidents/accidents. It was adopted in compliance with the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) and state law codified in Section 166.20, Wis. Stats. It was last updated March 2020.

- ◆ **Walworth County Emergency Operations Plan** The Walworth County Office of Emergency Management maintains an emergency operations plan that identifies the procedures for responding to emergency events in the county. The plan is currently being updated and adoption is anticipated in September 2021.
- ◆ **State Hazard Mitigation Plan** This plan was prepared by Wisconsin Emergency Management (WEM) and complies with the requirements of the Disaster Mitigation Act of 2000 at the state level.
- ◆ **Emergency Action Plan (EAP) Lake Beulah Dam** This document describes the dam hazard area for Lake Beulah Dam, identifies those responsible for dam operation and implementation of the EAP; describes the events of conditions that indicate an emergency, defines the levels of emergency, and describes how EAP participants and the public should be notified in the event of an emergency.

When any of these local plans are updated in the future, they should incorporate provisions, as may be appropriate, that support this plan.

7. PLAN PREPARATION, REVIEW, AND ADOPTION

This plan was initially prepared and adopted in 2009. In 2013, the county initiated a five-year update which was adopted on January 13, 2015. In a letter dated March 26, 2015, the Federal Emergency Management Agency certified that this plan update meets federal requirements (Appendix C).

2021/22 5-YEAR PLAN UPDATE

The Walworth County Emergency Management office applied for and received a grant to prepare a second five-year update to the plan. The county contracted with Civi Tek Consulting for this project.

The Walworth County Board of Supervisors adopted a public participation plan on August 10, 2021, that describes the ways in which the public and local units of government would be involved in the preparation, review, and approval of the plan update. A copy of the public participation plan is included in Appendix A. Key elements include: a project website, establishment of a steering committee, publication of all meetings, submittal of press releases, and numerous opportunities for submitting written comments and suggestions.

No comments were received from residents, property owners, or other interested parties during the process.

Municipalities in the county were involved in a number of ways and were kept abreast of the plan's progress. Initially, letters were sent to each municipality inviting them to approve a memorandum of understanding (MOU) and to designate an individual who would serve as a point of contact and a liaison. A sample of the MOU and of the appointment form is included in Appendix A. All of the municipalities approved the MOU. The local point of contact was given a

listing of critical facilities in his/her jurisdiction for review and comment (Appendix A). Corrections were made to the list of critical facilities based on the input received.

A steering committee was established and given the responsibility of reviewing the draft of the plan update. Members are listed in the acknowledgements to this plan. The committee met on June 17, 2021 to review the proposed changes to the plan. The meeting was publicly noticed and the agenda from the meeting and a listing of those in attendance is included in Appendix A. Members of the public in attendance were given an opportunity to provide input (see agenda).

After the steering committee finished its work, another draft (2.0) was prepared, which was sent to Wisconsin Emergency Management (WEM) for tentative review. A third draft of the plan was prepared to address WEM's initial comments.

Table 1-1. Summary of Village and City Involvement (verify)

Municipality	Description
City of Burlington	The City is primarily located in Racine County and participated in that county's hazard mitigation planning process.
City of Delavan	Appointed a point of contact for the project; returned review acknowledgement form and requested revisions (which were made)
City of Elkhorn	Appointed a point of contact for the project; city representative on steering committee; returned review acknowledgement form, no revisions requested
City of Lake Geneva	Appointed a point of contact for the project; city representative on steering committee; provided information relating to critical facilities; returned review acknowledgement form and requested revisions (which were made)
City of Whitewater	Appointed a point of contact for the project; city representative on steering committee; provided information relating to critical facilities; returned review acknowledgement form, no revisions required
Village of Bloomfield	Appointed a point of contact for the project; returned review acknowledgement form, no revisions requested
Village of Darien	Appointed a point of contact for the project; returned review acknowledgement form, no revisions requested
Village of East Troy	Appointed a point of contact for the project; provided information relating to critical facilities; returned review acknowledgement form and requested revisions (which were made)
Village of Fontana-on-Geneva Lake	Appointed a point of contact for the project; provided information relating to critical facilities; returned review acknowledgement form, no revisions required
Village of Genoa City	Appointed a point of contact for the project; returned review acknowledgement form and requested revisions (which were made)
Village of Mukwonago	The Village is primarily located in Waukesha County and participated in that county's hazard mitigation planning process.
Village of Sharon	Appointed a point of contact for the project; provided information relating to critical facilities; returned review acknowledgement form and requested revisions (which were made)
Village of Walworth	Appointed a point of contact for the project; village representative on steering committee; provided information relating to critical facilities; returned review acknowledgement form and requested revisions (which were made)
Village of Williams Bay	Appointed a point of contact for the project; provided information relating to critical facilities; returned review acknowledgement form, no revisions requested

A copy of this draft was then sent to each of the cities and villages in the county, the Emergency Management Directors of the adjoining counties, the local chapter of the American Red Cross, and the Southeastern Wisconsin Regional Planning Commission for review and comment.

A copy was sent to the Michael P. Cotter, Director, Walworth County Land Use and Resource Management Department, for review and comment.

An executive summary was sent to each of the towns for review and comment. A copy of these cover letters are included in Appendix A. All of the municipalities responded (Table 1-1). Revisions as requested were incorporated into the plan document. (verify)

A fourth draft of the plan was prepared based on the local government input that was received. It was then sent to the Federal Emergency Management Agency for preliminary approval. A letter dated [REDACTED], 2022, indicated such approval. The Executive Committee of the County Board reviewed this draft on [REDACTED], 2022, and recommended the draft plan to the full County Board for its review and action.

On [REDACTED], 2022, the County Board of Supervisors adopted this plan. The county adoption resolution and those of the cities and villages are included in Appendix B.

In a letter dated [REDACTED], 2022, the Federal Emergency Management Agency certified that this plan update meets federal requirements (Appendix C).

Every effort has been made to use the best available data for the update. The most current census data was used to update the housing and demographic information contained in this plan.

Table 1-2 summarizes the changes made to each section of the plan as part of the update.

Table 1-2. Summary of Changes Made in the 2021/22 Plan Update

Plan Section	Summary of Changes
Chapter 1	This chapter was reviewed and updated as needed.
Chapter 2	This chapter was updated using data the best available data.
Chapter 3	This chapter was updated including data from the 2010 Census of population and housing and other more recent data sources.
Chapter 4	This chapter was updated.
Chapter 5	Natural hazard profiles, occurrences, and probabilities were reviewed and updated as necessary. In addition, the risk assessments were updated.
Chapter 6	This chapter was updated. The steering committee focused in on the goals, objectives, policies, and activities. Revisions were made and new ones were added.
Map Series	All of the maps were updated.
Appendix A	Public participation documentation for the 2021-2025 plan is included.
Appendix B	Resolutions adopting the 2021-2025 plan update are included.
Appendix C	Certification letters from WEM and FEMA for the 2021-2025 plan are included.
Appendix D	This appendix was updated to list all of the municipalities adopting the plan.
Appendix E	The listing represents an up-to-date inventory of critical facilities in the county sorted by type of facility.
Appendix F	The listing represents an up-to-date inventory of critical facilities in the county sorted by jurisdiction.
Appendix G	The history of storm events was updated using data provided by the National Weather Service.
Appendix H	No change
Appendix I	No change

8. PLAN MAINTENANCE AND AMENDMENT

DMA 2000 requires that an adopted plan be reviewed and updated at least once every five years. However, to ensure that the plan remains a viable planning tool, it should be reviewed each year and following a natural disaster. The Federal Emergency Management Agency and Wisconsin Emergency Management will be notified of amendments to this plan.

ANNUAL REVIEW

Each November, the Emergency Management Director should review and monitor this plan and suggest amendments to the Executive Committee. As part

of this review, the Emergency Management Director should contact each of the participating jurisdictions to give them the opportunity to suggest changes. During this annual review, most of the focus should be on Chapter 6, which lists the goals, objectives, policies, and activities.

To determine whether amendments are needed, the following considerations should be reviewed:

- ◆ Review of general development trends
- ◆ Review of hazard risk
- ◆ Review of hazard mitigation goals and objectives
- ◆ Review of completed mitigation activities and their effectiveness
- ◆ Review of recommended strategies
- ◆ Review of available resources for future projects
- ◆ Public input
- ◆ Input from WEM and FEMA

Without periodic review and assessment, this plan has the potential to lose its relevance as conditions change, specific projects are implemented, and new priorities emerge.

FOLLOWING A NATURAL DISASTER

In addition, to a yearly review cycle, this plan should be updated following a significant natural disaster. Ideally, the update would be completed within six months of the event.

The public will be formally notified of meetings scheduled for the purpose of plan review. Other mechanisms that will be used to maintain public involvement include making available a copy of the plan at local public libraries, issuance of periodic press releases to the media describing the status of plan implementation, and the use of the county's website as a medium to keep residents informed of the plan's status and implementation activities.

HISTORY OF ADOPTION AND AMENDMENT

A history of adoption and amendment is included as Appendix D. It lists when this plan was first adopted and the various amendments which have taken place since then.

9. INCORPORATING THIS PLAN INTO OTHER PLANNING EFFORTS

The state-mandated comprehensive plan and floodplain regulations will be the primary means of reducing the effects of hazards on people and property in Walworth County. Mitigation strategies can be incorporated into these plans when they are updated. Each jurisdiction should incorporate goals, objectives, and policies into their comprehensive plans that are consistent with this plan. The Walworth County Emergency Management Director should send a letter to the Plan Commission of each city and village in 2013 encouraging them to cross reference their plan revisions with this plan. Likewise, amendments to this plan should be made consistent with comprehensive plans so long as such action would reduce the impact of hazards on people and property.

In addition to long-range planning, this plan will also be utilized when reviewing land development projects. It will be useful to consult this plan to determine where hazards are located, primarily 100-year floodplains. The plan will also be consulted as necessary when capital improvement plans are being prepared. Again, the intent of these cross-cutting planning efforts is to reduce the effects of hazards on people and property.

To underscore the importance of incorporating this plan into other planning efforts, Walworth County Emergency Management sent a letter to the County Planning Director encouraging the use of this plan (Appendix A).

10. ENTITIES INVOLVED IN MITIGATION

Aside from emergency management personnel/departments, there is a wide range of others at the local level that are directly or indirectly involved in hazard mitigation efforts and activities, including:

- ◆ Zoning administrators
- ◆ Floodplain administrators
- ◆ Public engagement coordinators
- ◆ Public works department heads
- ◆ Police and fire department heads
- ◆ Building inspectors

11. GOVERNMENTAL UNITS ADOPTING THIS PLAN

In addition to Walworth County, a number of cities and villages in the county have also adopted this plan. Resolutions of those jurisdictions adopting this plan are included in Appendix B.

Those jurisdictions that have not adopted this plan, can adopt this plan, provided they involve the public in the adoption process.

PLANNING AREA PROFILE

1. CHAPTER OVERVIEW

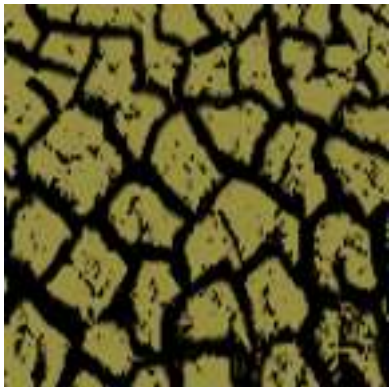
This chapter is intended to give an overview of Walworth County to help describe the setting and provide the general context for mitigation planning. Some of the information in this chapter was derived from *SEWRPC (Southeastern Wisconsin Regional Planning Commission) Community Assistance Planning Report No. 288*.

2. REGIONAL CONTEXT

Walworth County is located in southeastern Wisconsin and borders the northern Illinois metropolitan region to its south and the Milwaukee metropolitan region to its east. Walworth County borders Jefferson, Kenosha, Racine, and Waukesha counties in Wisconsin and Boone and McHenry counties in Illinois (Exhibit 2-1). A number of cities/villages are located in Walworth County and an adjoining county. These include the following:

- ◆ City of Burlington (also in Racine County)
- ◆ City of Whitewater (also in Jefferson County)
- ◆ Village of Genoa (also in Kenosha County)
- ◆ Village of Mukwonago (also in Waukesha County)

Exhibit 2-1. General Location



Chapter Contents

1. Chapter Overview
2. Regional Context
3. Units of Government
4. Population
5. Housing
6. Transportation
7. Land Use
8. Climate
9. Physiographic Features
10. Topography
11. Surface Water
12. Groundwater

3. UNITS OF GOVERNMENT

Civil divisions consist of 16 towns, 9 villages, and 5 cities (Table 2-1). The city of Burlington is located in Walworth and Racine counties and the city of Whitewater is located in Walworth and Jefferson counties. The village of Genoa City is located in Walworth and Kenosha counties and the village of Mukwonago is in Walworth and Waukesha counties. A portion of the Town of Bloomfield incorporated in 2011 and is now the Village of Bloomfield. The city of Elkhorn is the county seat.

Table 2-1. Civil Divisions; Walworth County: 2021

Towns	Cities	Villages
Bloomfield	Burlington [1]	Bloomfield [2]
Darien	Delavan	Darien
Delavan	Elkhorn	East Troy
East Troy	Lake Geneva	Fontana-on-Geneva Lake
Geneva	Whitewater [1]	Genoa City [1]
La Grange		Mukwonago [1]
Lafayette		Sharon
Linn		Walworth
Lyons		Williams Bay
Richmond		
Sharon		
Spring Prairie		
Sugar Creek		
Troy		
Walworth		
Whitewater		

Notes: 1. Municipality located in Walworth County and another county
2. The village was incorporated on December 20, 2011

4. POPULATION

In 2000, the resident population in the county was 92,013 and ten years later it had grown to 102,228, representing an 11 percent increase (Table 2-2). In 2019, the County's population was estimated to be 103,868 by the U.S. Census Bureau. The City of Whitewater is the most populous municipality in the county, accounting for about 11 percent of the countywide population. In 2010, almost half of the population lived in the towns and the other half lived in the county's cities and villages. However, 2018 population estimates show that close to 60 percent now live in villages and cities, which may be partially explained by the incorporation of the Village of Bloomfield in 2011. Additionally, the Town of Bloomfield's sharp decrease in population during the 2010s reflects this incorporation, where most Town of Bloomfield residents became new Village of Bloomfield residents.

Table 2-2. Population; Walworth County and Civil Divisions: 1990, 2000, and 2010 U.S. Census; 2018 American Community Survey Estimates

	1990 Count	2000 Count	2010 Count	2018 Estimate	Percent Change 2010-2018
Town					
Bloomfield	3,723	5,537	6,278	1,433	-77.17%
Darien	1,490	1,747	1,693	1,894	11.87%
Delavan	4,195	4,559	5,285	5,319	0.64%
East Troy	3,687	3,830	4,021	4,041	0.50%
Geneva	3,472	4,099	4,993	5,041	0.96%
Lafayette	1,276	2,251	1,979	1,938	-2.07%
La Grange	1,643	2,444	2,454	2,501	1.92%
Linn	2,062	2,194	2,383	2,762	15.90%
Lyons	2,579	3,440	3,698	3,714	0.43%
Richmond	1,405	1,835	1,884	1,874	-0.53%
Sharon	1,016	912	907	779	-14.11%
Spring Prairie	1,753	2,089	2,181	1,918	-12.06%
Sugar Creek	2,661	3,331	3,943	3,964	0.53%
Troy	2,051	2,328	2,353	2,153	-8.50%
Walworth	1,341	1,676	1,702	1,747	2.64%
Whitewater	1,378	1,399	1,471	1,526	3.74%
Subtotal	35,731	43,671	47,225	42,604	-9.79%
Village					
Bloomfield	[2]	[2]	[2]	4,704	N/A
Darien	1,158	1,572	1,580	1,795	13.61%
East Troy	2,664	3,564	4,236	4,330	2.22%
Fontana-on-Geneva Lake	1,635	1,754	1,672	1,723	3.05%
Genoa City [1]	1,277	1,949	3,036	3,009	-0.89%
Mukwonago [1]	0	0	101	98	-2.97%
Sharon	1,250	1,549	1,605	1,748	8.91%
Walworth	1,614	2,304	2,816	2,822	0.21%
Williams Bay	2,108	2,415	2,564	2,592	1.09%
Subtotal	11,706	15,107	17,610	22,821	29.59%
City					
Burlington [1]	0	0	0	7	NA
Delavan	6,073	7,956	8,463	8,338	-1.48%
Elkhorn	5,337	7,305	10,084	9,907	-1.76%
Lake Geneva	5,979	7,148	7,651	7,815	2.14%
Whitewater [1]	10,170	10,826	11,150	11,737	5.26%
Subtotal	27,559	33,235	37,348	37,804	1.22%
Walworth County	75,000	92,013	102,228	103,013	0.77%

Source: US Census Bureau (Summary File 1), Wisconsin Department of Administration, Demographic Service Center, and 2018 American Community Survey Estimates

Notes: 1. Municipality located in Walworth County and another county. Data is for Walworth County only.
2. The village was incorporated on December 20, 2011.

5. HOUSING

In 2018, there was estimated to be 52,177 housing units in the county (Table 2-3). The average household size was 2.5.

Table 2-3. Housing Characteristics: 2018 Estimates

	Average Household Size	Housing Units	Seasonal Housing Units
Town			
Bloomfield	2.69	596	247
Darien	2.85	660	4
Delavan	2.35	3,901	1473
East Troy	2.56	1,990	317
Geneva	2.46	3,343	1170
Lafayette	2.6	817	19
La Grange	2.42	1,804	700
Linn	2.47	2,194	1075
Lyons	2.6	1,641	45
Richmond	2.56	996	216
Sharon	2.35	357	6
Spring Prairie	2.52	837	28
Sugar Creek	2.68	1,581	129
Troy	2.41	983	71
Walworth	2.48	759	49
Whitewater	2.53	905	297
Subtotal		23,364	5,846
Village			
Bloomfield [2]	3.01	1,992	[2]
Darien	2.99	652	6
East Troy	2.29	1,913	10
Fontana-on-Geneva Lake	2.16	2,407	1538
Genoa City [1]	2.7	1,197	28
Mukwonago [1]	2.53	34	0
Sharon	2.66	719	5
Walworth	2.61	1,183	12
Williams Bay	2.24	2,133	831
Subtotal	n/a	12,230	2,430
City			
Burlington [1]	0	7	0
Delavan	2.59	3419	33
Elkhorn	2.44	4065	17
Lake Geneva	2.23	4400	575
Whitewater [1]	2.3	4692	11
Subtotal		16583	636
Walworth County	2.48	52,177	8,912

Source: US Census Bureau (Summary File 1) and Wisconsin Department of Administration, Demographic Service Center

Notes: 1. Municipality located in Walworth County and another county. Data is for Walworth County only.

2. The village was incorporated on December 20, 2011

6. TRANSPORTATION

SURFACE TRANSPORTATION

Map 1 shows the location of roadways and railroads in the county. In 2005, there were about 1,518 miles of public streets and highways (Table 2-4). Nearly three-fourths of the roads were classified as a local road. Interstate 43 traverses northeast to southwest between Milwaukee and Beloit. Interchanges are located in the village of Mukwonago and the cities of Elkhorn and Delavan.

The other key regional highways include US 12, STH 11, STH 20, STH 50, STH 67, STH 89, and STH 120. Each of these highways connects one or more of the incorporated municipalities in Walworth County to the Interstate highway system and provides access to nearby metropolitan areas.

AIR TRANSPORTATION

In 2021, there were five public-use airports in the county. Three of these – Grand Geneva, Lake Lawn, and Big Foot Airfield – were privately owned. East Troy Municipal Airport and Burlington Municipal Airport are publicly owned and are part of the Wisconsin Airport System. Both of these airports are classified as a general utility airport¹. For the purposes of this plan, airports that are not part of the Wisconsin Airport System are not considered critical infrastructure. The majority of the land area associated with the Burlington Municipal Airport is located in Racine County; only a portion of the northwest-southeast runway is in Walworth County.

In addition to these public-use airports, there are a number of private-use airport which are not open to the general public. Commercial passenger service is available at Dane County Regional Airport in Madison, General Mitchell International Airport in the Milwaukee metropolitan area, O'Hare International Airport and Midway International Airport in the Chicago metropolitan area, and Rockford International Airport in Rockford, Illinois.

RAIL TRANSPORTATION

In 2013 the following railroad lines operated within Walworth County (Map 1):

- ◆ Wisconsin & Southern Railroad Company with routes in the Whitewater area, in the south-central and southwesterly portion of the county; and a route running southwesterly from Elkhorn.
- ◆ Union Pacific Railroad with a route in the southwestern corner of the county.
- ◆ Canadian National Railway with a route in the northeastern area of the county.
- ◆ East Troy Electric Railroad Museum with a seasonal trolley service route between the villages of East Troy and Mukwonago.

**Table 2-4. Roadway by Type:
Walworth County; 2005**

Roadway Type	Miles	Percent
		of Total
Interstate Highway	31.0	2
State Highway	193	13
County Highway	200	13
Local Roads	1,094	72
Total	1,518	100

Source: Southeastern Wisconsin Regional Planning Commission

¹ A general utility airport is intended to serve virtually all small general aviation single and twin-engine aircraft, both piston and turboprop, with a maximum takeoff weight of 12,500 pounds or less.

7. LAND USE²

Based on a land use inventory conducted in 2000 by the Southeastern Wisconsin Regional Planning Commission, urban land uses – consisting of residential; commercial; industrial; recreational; governmental and institutional; and transportation, communication, and utilities; and unused urban land – covered 46,600 acres, or about 13 percent of the total area of the county (Table 2-5). Residential land uses accounted for nearly half of this urban development.

Rural and other nonurban land uses in Walworth County accounted for 87 percent of the total area of the county. Agriculture was the single largest land use, comprising nearly two-thirds of the land base in the county.

The amount of nonurban lands decreased by about 19,000 acres between 1963 and 2000 as cities and villages have grown, and more importantly, as rural lands were converted to residential uses. This trend is likely to continue resulting in lower urban densities and a loss of farmland.

The continued growth and development of northeastern Illinois will have a bearing on land development pressures in Walworth County. It is anticipated that the pressures will grow in the coming years.

As more fully discussed elsewhere in this plan, all of the cities and villages enforce zoning regulations and the County continues to enforce zoning throughout the unincorporated areas. Within those communities that enforce state floodplain requirements, future development will not be impacted during flood events because the buildings are elevated and meet other protection standards.

With these safeguards in place, future development will not materially impact the county's vulnerability since the previous hazard plan was developed. Climate change is a broad-scale trend that needs to be further monitored and assessed.

Table 2-5. Existing Land Use; Walworth County: 2000

Land Use	Acres	Percent of Total
Agricultural	237,671	64.4
Extractive and Landfill	1,499	0.4
Transportation	15,206	4.1
Residential	20,259	5.5
Recreational	4,307	1.2
Government & Institutional	1,734	0.5
Natural Lands	72,614	19.7
Industrial	1,420	0.4
Commercial	1,248	0.3
Other	12,993	3.5
Total	368,951	100

Source: Southeastern Wisconsin Regional Planning Commission

8. CLIMATE³

Walworth County lies in the mid-continental zone, which is characterized by long and relatively cold and snowy winters, and warm summers, with periods of hot and humid conditions. Air temperatures are subject to extreme seasonal variations. July is the warmest month and January is the coldest. Snow cover is most likely during December, January, and February. Streams and lakes begin to freeze over in late November, and ice breakup usually occurs in late March or early April.

Rainfall intensity, duration, and frequency are major factors that affect the peak rate of runoff and flooding. The most intense type of storm is that which occurs within a 24-hour duration, with the most intense rainfall occurring during a six-hour period near the middle of the event. The size of a storm is often described by the length of time over which precipitation occurs, the total amount of precipitation occurring, and how often this same storm

Table 2-6. Rainfall Intensity, Duration and Frequency; Walworth County

Recurrence Interval	Rainfall in a 24-hour Period (Inches)
2 Year	2.8
5 Year	3.5
10 Year	4.1
25 Year	4.6
50 Year	5.2
100 Year	5.8

Source: Southeastern Wisconsin Regional Planning Commission

² Source: SEWRPC Community Assistance Planning Report No. 288. Southeastern Wisconsin Regional Planning Commission

³ Source: SEWRPC Community Assistance Planning Report No. 288. Southeastern Wisconsin Regional Planning Commission

occurs. The amount of rainfall that can be expected to occur in Walworth County in a 24-hour period for selected frequencies is shown in Table 2-6.

The mean annual precipitation for Walworth County is approximately 36 inches. The majority of precipitation falls in the form of rain during the growing season, between May and September. Approximately 50 rainfall events occur per year⁴. Runoff can be high during rainfall events in March and April, when the ground is still frozen, the soil moisture is high, and little infiltration occurs. The average annual snowfall and sleet is 47.1 inches. Assuming that 12 inches of measured snow and sleet are equivalent to one inch of water, the average annual snowfall is equivalent to 3.9 inches of water or about 11 percent of the average annual precipitation. Temperature and precipitation data from an observation station in Lake Geneva are presented in Table 2-7.

Table 2-7. Temperature and Precipitation; Lake Geneva: 1945-1988

Month	Monthly Mean Temperature [1]	Average Total Precipitation (Inches)	Average Snow and Sleet (Inches)
January	19.8	1.89	12.6
February	23.8	1.39	7.9
March	33.5	2.67	9.6
April	46.5	3.83	2.0
May	57.9	3.35	0.1
June	68.3	4.16	0.0
July	73.0	4.26	0.0
August	71.6	3.81	0.0
September	83.8	3.42	0.0
October	52.8	2.56	0.1
November	38.2	2.40	3.6
December	25.4	2.40	11.2

Source: Wisconsin Statistical Reporting Service, National Climate Data Center and National Oceanic and Atmospheric Administration, National Weather Service, Sullivan

Notes: 1. The monthly mean temperature is the mean of the average daily maximum temperature and the average daily minimum temperature for each month.

9. PHYSIOGRAPHIC FEATURES⁵

The four major stages of glaciation that occurred in the region have laid the foundation for the physiology, topography, and soils of Walworth County. The last and most influential stage of glaciation was the Wisconsin stage, which is said to have ended in the state about 11,000 years ago. The Kettle Moraine is oriented in a northeast-southwest direction across Washington, Waukesha, and Walworth counties. The Kettle Moraine is a prominent feature in the towns of Whitewater and LaGrange in northwestern Walworth County and is a complex landform of hummocky sand and gravel including kames, kettles, and eskers. The remainder of Walworth County is covered by a variety of glacial landforms and features.

⁴ A rainfall event is defined as a distinct period when precipitation is equal to or greater than 0.1 inch.

⁵ Source: *SEWRPC Community Assistance Planning Report No. 288*. Southeastern Wisconsin Regional Planning Commission

10. TOPOGRAPHY⁶

The surface of the county is a gently undulating plain with broad valley bottoms and gently sloping hills. Broad marshes along the streams are a characteristic feature. The lowest land in the western part of the county at Whitewater is about 829 feet, and along Turtle Creek at Fairchild about 880 feet, while the lowest land in the eastern part, along the White River near Burlington, is about 760 feet above sea level. The highest uplands reach an altitude of a little over 1,000 feet, with a much larger proportion of the land of the western part reaching close to this altitude than of the eastern part. The maximum range in altitude between the highest hills and the adjacent valleys is less than 200 feet.

11. SURFACE WATER⁷

Surface waters of Walworth County flow to the Mississippi River through two major drainage basins, the Fox (Illinois) River and the Rock River. The principal drainage system of eastern Walworth County consists of three watersheds all contributing to the Fox (Illinois) River. The streams representing the three watersheds are: Mukwonago River, Honey and Sugar creeks, and White River and Nippersink Creek. The principal drainage system of western Walworth County consists of four watersheds tributary to the Rock River. The streams representing the four watersheds include Turtle Creek, Piscasaw Creek, Whitewater Creek, and Scuppernon Creek.

Walworth County has 36 named lakes covering 13,353 acres (Table 2-8). Lake Geneva is the largest lake in the county, with a surface area of 5,104 acres. The majority of lakes are 200 acres or smaller. There are 29 named streams within nine watersheds (Table 2-9). In addition, there are a number of small unnamed streams.

⁶ Source: *Flood Insurance Study, Walworth County and Incorporated Areas* (FIS No. 55127CV000A). Federal Emergency Management Agency

⁷ Source: *SEWRPC Community Assistance Planning Report No. 288*. Southeastern Wisconsin Regional Planning Commission

**Table 2-8. Named Lakes;
Walworth County**

Lake	Acres
Army Lake	76
Beulah Lake	712
Booth Lake	108
Cedar Grove Millpond	12
Como Lake	1,058
Comus Lake	117
Cravath Lake	65
Delavan Lake	2,072
Geneva Lake	5,104
Green Lake [1]	292
Hilburn Pond	17
Honey Lake	42
Ivanhoe Lake	41
LaGrange Lake	55
Lauderdale Lakes	809
Loaiane Lake	133
Lower Whitewater Lake	137
Lulu Lake	95
Lyons Millpond	12
Middle Lake [1]	256
Mill Lake	261
Mud Lake	23
North Lake	191
Number (10) Lake	34
Pell Lake	107
Peters Lake	60
Pickerel Lake	27
Pleasant Lake	137
Potters Lake	151
Silver Lake	86
Swift Lake	17
Tombeau Lake	32
Trapp Lake	115
Turtle Lake	140
Wandawega Lake	119
Whitewater Lake	640
Total	13,353

Source: Southeastern Wisconsin Regional
Planning Commission

Notes:

1. Part of Lauderdale Lake

Table 2-9. Streams; Walworth County

Stream Names	Surface Area (acres)	Drainage Area (Square miles)	Length (miles)	Width (feet)
Baker Creek	1.9	8	1.8-9	9
Bloomfield Creek	2.5	4	3.5	6
Bluff Creek	2.4	7	2.0	10
Como Creek	6.4	9	3.8	14 Ditch
Darine Creek	7.7	18	5.3	12
Honey Creek	54.7	92	18.5	24
Horton Creek	6.3	12	4.7	11 Ditch
Indian Run Creek	1.8	4	2.5	6
Jackson Creek	5.0	6	2.3	18
Ladd Creek	10.8	17	7.4	12
Lightbody Creek	0.2	2	0.6	2
Mukwonago River	2.5	9	1.5	14
Nippersink Creek	14.5	45	5.2	12
Nippersink, N.E. Branch	7.3	27	4.7	14
Nippersink, W. Branch	8.8	16	7.4	9
Ore Creek	5.2	17	3.6	12
Ore Creek, 1 st Branch	2.5	3	2.7	7.5
Ore Creek, 2 nd Branch	1.2	5	2.8	3.5
Piscasaw Creek	4.0	10	2.2	15 Ditch
Spring Brook	5.1	5	3.5	12
Spring Creek	3.4	7	3.5	8
Spring Valley Creek	5.8	14	6.0	8
Steel Brook	0.7	5	2.0	3
Sugar Creek	42.5	70	19.5	18
Turtle Branch	15.8	35	6.5	20 Ditch
Turtle Creek	70.9	90	13.0	45
White River	66.2	298	12.3	45
Whitewater Creek	13.0	81	4.3	25
Williams Bay Creek	0.7	1	1.1	5 Ditch
Named Rivers and Streams	369.8	-	154.2	-
Unnamed Streams	10.6	-	11.2	-
Total	380.4	-	165.4	-

Source: Southeastern Wisconsin Regional Planning Commission

12. GROUNDWATER⁸

Groundwater is the main source of industrial water and drinking water for Walworth County residents. There are three principal aquifers in the county: the shallow sand-gravel deposits in the glacial drift aquifer; the shallow dolomite strata aquifer in the underlying bedrock; and the deep sandstone, dolomite and shale aquifer. Most of the private drinking water wells are less than 200 feet deep and tap into the sand-gravel aquifer.

Groundwater also sustains the water levels of lakes and provides base flow to streams in the county. Like surface water, groundwater is susceptible to depletion and deterioration. The deep sandstone aquifer has experienced excessive draw downs, primarily as a result of pumping in metropolitan Milwaukee and northeastern Illinois.

The shallow sand-gravel and dolomitic aquifer is recharged locally by the infiltration and percolation of precipitation and surface water runoff. The shallow aquifer is more susceptible to pollution from waste water and runoff pollution. The deeper sandstone aquifer is recharged by the vertical movement of rainwater through glacial deposits located in the western-half of Walworth and Waukesha counties, along a narrow zone oriented in a north-south direction. This recharge area supplies drinking water to Walworth County communities and many communities outside of the county served by deep public wells.

⁸ Source: *SEWRPC Community Assistance Planning Report No. 288*. Southeastern Wisconsin Regional Planning Commission

SPECIAL NEEDS POPULATIONS AND GROUPS

1. CHAPTER OVERVIEW

During a natural disaster the potential exists for certain populations and groups of people to be disproportionately affected when compared to the general population. This section looks at those groups including the elderly, people with disabilities, homeless individuals, populations with language barriers, and people in mobile home parks, campgrounds, and group quarters. Strategies and actions are included in Chapter 5 in order to address the particular needs of these groups.



2. ELDERLY

As a group, the elderly are especially vulnerable to natural hazards. This is especially true when an elderly person lives by him or herself or with an elderly spouse and do not have family or friends to help them prepare for natural hazards or react to and recover from an event.

The aging of the population is occurring throughout the nation and is also evident in Walworth County. As seen in Table 3-1, the number of people in Walworth County in most age groups under 45 years old decreased between 2000 and 2018, while the number of people 45 and older increased, especially in the 55 to 64 and 65 to 74 age groups, with an increase from 15 percent of the total to 23.9 percent. As the population continues to get proportionately older, it will become increasingly important to address the needs of the elderly with respect to natural hazards planning.

Chapter Contents

- 1. Chapter Overview
- 2. Elderly
- 3. People with Disabilities
- 4. Homeless Individuals
- 5. Populations with Language Barriers
- 6. People Living in Manufactured and Mobile Homes
- 7. People in Campgrounds
- 8. Residents in Group Quarters

3. PEOPLE WITH DISABILITIES

Like the elderly, people with disabilities have increased exposure to some types of natural hazards. As shown in Table 3-2, the likelihood that an individual has a disability increases with age. About 20 percent of county residents between 18 to 64 years had a disability, while more than 61 percent that were 65 years and older had a disability.

Table 3-1. Age of Population; Walworth County: 2010 and 2010; 2018 estimates

Age Group	Percent of Total			Percent Change
	2000	2010	2018	2000-2018
Under 5 years	5.9	6.1	5.2	-11.8
5 to 9	6.7	6.6	5.7	-14.9
10 to 14	7.3	6.6	6.5	-10.1
15 to 19	8.7	7.4	7.4	-14.9
20 to 24	9.3	8.5	9.4	1.1
25 to 34	11.9	11.2	10.5	-11.8
35 to 44	15.6	12.4	11.2	-28.2
45 to 54	13.1	15.2	13.4	2.3
55 to 64	8.6	12.4	14.2	65.1
65 to 74	6.4	7.2	9.7	51.6
75 to 84	4.4	4.3	4.7	6.8
85 and older	1.8	2.0	2.1	16.7

Source: 2000 Census of Population and Housing, US Census Bureau
2010 Census of Population and Housing, US Census Bureau
2018 American Community Survey Estimates

4. HOMELESS INDIVIDUALS

Homeless individuals are disproportionately affected by many types of natural disasters. Excessive heat and cold are especially hard on the elderly homeless. Seven churches in the county host a homeless shelter on a rotating basis (Table 3-3).

Table 3-3. Homeless Shelters: 2021

Location Name	Address	Jurisdiction
Chapel on the Hill	N2440 Ara Glen Drive	City of Lake Geneva
Christ Episcopal Church	503 E Walworth Avenue	City of Delavan
Creek Road Community Church	W7778 Creek Road	City of Delavan
Delavan United Methodist Church	213 S 2nd Street	City of Delavan
First Baptist Church	212 S Main Street	City of Delavan
St. Benedict's Church	137 Dewey Avenue	City of Fontana-on-Geneva Lake
St. John Lutheran Church	104 S Broad Street	City of Elkhorn

Source: Walworth County Emergency Management

5. POPULATIONS WITH LANGUAGE BARRIERS

Most people in Walworth County are able to communicate effectively in English. However, a small group of residents, most likely recent immigrants, have not learned to speak English or have not become proficient. Recognizing this fact is important in devising strategies to help residents prepare themselves for an impending disaster and recover from the aftermath of the event.

It is estimated that 3.2 percent of residents in Wisconsin in 2018 were not able to communicate "very well" in English (Table 3-4). The village of Walworth and Cities of Delavan and Lake Geneva exceeded this statewide rate considerably, at 9.4 percent, 14.3 percent, and 6.0 respectively.

Although the number of residents who do not speak proficient English is comparatively small, it is anticipated that the number will continue to rise barring a significant shift in public policy in immigration.

Table 3-4. People with Language Barriers: 2018

Jurisdiction	Percent of Population
Bloomfield, village [2]	1.1
Burlington, city [1]	0
Darien, village	2.9
Delavan, city	14.3
East Troy, village	0.3
Elkhorn, city	3.9
Fontana-on-Geneva Lake, village	1.1
Genoa City, village [1]	3.2
Lake Geneva, city	6.0
Mukwonago, village [1]	0
Sharon, village	7.6
Walworth, village	9.4
Whitewater, city [1]	3.5
Williams Bay, village	1.6
Wisconsin	3.2

Source: 2018 American Community Survey 5-year estimates

Notes:

1. Municipality located in Walworth County and another county; data is for that area within Walworth County
2. The Village incorporated on December 20, 2011

Table 3-2. Noninstitutionalized People with Disabilities; Walworth County: 2018

Under 5	Percent of Population
With any disability	0.6
With hearing difficulty	0.4
With vision difficulty	0.2
5 to 17 years	
With any disability	6.0
With hearing difficulty	1.2
With vision difficulty	1.1
With cognitive difficulty	4.8
With ambulatory difficulty	0.6
With self-care difficulty	1.3
18 to 64 years	
With any disability	20.0
With hearing difficulty	2.6
With vision difficulty	1.5
With cognitive difficulty	4.6
With ambulatory difficulty	4.5
With self-care difficulty	1.9
65 years and over	
With any disability	61.2
With hearing difficulty	14.9
With vision difficulty	3.6
With cognitive difficulty	6.1
With ambulatory difficulty	16.3
With self-care difficulty	5.4

Source: 2018 American Community Survey 5-year estimates

6. PEOPLE LIVING IN MANUFACTURED AND MOBILE HOMES

Manufactured housing and mobile homes are especially susceptible to damage from wind and other storms. As a result, people living in this type of housing are more vulnerable to injury and death when compared to those living in dwellings built with conventional framed construction.

In 2020, there were 8 mobile home parks in Walworth County (Table 3-5). None of the mobile home parks have a storm shelter where people could go during wind-related storm events.

Table 3-5. Mobile Home Parks: 2021

Name	Jurisdiction	Address	Number of Sites	License Number
Coachman's Terrace	Geneva, town	W3540 State Road 50	60	MHC-019900891
Land O' Lakes Mobile Home Court	Elkhorn, city	473 E Geneva Street	96	MHC-079300835
Ludwell Estates	Delavan, town	5614 STH 11	65	MHC-079300825
Pioneer Estates of Delavan	Darien, town	W7941 Creek Road	167	MHC-079300830
Pioneer Estates – Lake Geneva	Bloomfield, town	N2020 CTH H	265	MHC-069400393
Skyview Terrace	East Troy, village	2742 E Main Street	109	MHC-129400841
Snug Harbor Manufactured Home Community	Richmond, town	W7772 Wisconsin Parkway	36	MHC-079300955
The Timbers Court	Lake Geneva, city	515 S Wells Street	71	MHC-079300331

Source: Wisconsin DSPS

7. PEOPLE IN CAMPGROUNDS

People staying in campgrounds are even more vulnerable to wind storm events than those living in mobile home and manufactured homes. Although many campers stay in hard-sided campers or RVs, some stay in soft-sided tents. During a wind storm or tornado, they have little protection from wind-borne debris and falling branches and trees.

In 2021, there were 16 campgrounds in Walworth County (Table 3-6). With the exception of four campgrounds, they were all privately operated. Many of the privately-operated campgrounds were run by a Girl Scout association or similar nonprofit organization. In addition to the campgrounds listed, there were a number of other camps that provide indoor sleeping in rustic cabins. Because they provide indoor sleeping accommodations, they are not considered a critical facility.

Willow Run RV Condo Association



Table 3-6. Campgrounds: 2021

Name	Jurisdiction	Address
Alice Chester Center	Troy, Town	N8651 Town Line Road
Bigfoot Beach State Park (Wis DNR)	Lake Geneva, City	1550 S Lake Shore Drive
Camp Charles Allis	East Troy, Town	W2035 Beulah Heights Road
Camp Edwards YMCA	East Troy, Town	N8901 Army Lake Road
Camp Joy	Whitewater, Town	W7725 Kettle Moraine Drive
Conference Point Camp	Williams Bay, Village	300 Conference Point Road
Hickory Woods Group Camp	Whitewater, Town	Hi-Lo Road
Holiday Home Camp	Williams Bay, Village	Holiday Avenue
McIntyres Resort	Richmond, Town	N6471 Milwaukee Road
Norman B. Barr Camp	Williams Bay, Village	483 Outing Street
Scenic Ridge Campground	Richmond, Town	W7991 R&W Townline Road
Snug Harbor Inn Campground on Turtle Lake	Richmond, Town	W7785 Wisconsin Parkway
Timber Lee Christian Center	Troy, Town	N8705 Scout Road
Whitewater Lakes-East (Wis DNR)	Whitewater, Town	N8096 Hi-Lo Road
Whitewater Lakes-West (Wis DNR)	Whitewater, Town	N8095 Hi-Lo Road
Willow Run RV Condo Association	Sugar Creek, Town	W4945 County Road ES

Source: Various sources including field verification

8. RESIDENTS IN GROUP QUARTERS

While the majority of people in Walworth County live in a single-family dwelling or a multifamily building, more than five percent of the residents live in what are referred to as group quarters. If residents live in a controlled environment (e.g., correctional institutions, nursing homes) the group quarters are referred to as institutional, and those living in a group setting are referred to as non-institutional (e.g., college dormitories).

In 2010, there were a total of 2,696 residents living in group quarters (Table 3-7). Nearly two-thirds of those lived in college dormitories at UW-Whitewater. Nursing homes and community living arrangements accounted for the next two largest housing types.

The Wisconsin School for the Deaf (WSD) is a residential school for deaf and hard of hearing students from throughout Wisconsin. WSD operates under the direction of the Wisconsin Department of Public Instruction and provides educational services for deaf and hard of hearing students ages 3 to 21. WSD has an average annual enrollment of 130 students in grades pre-K through 12th. It is located at 309 W. Walworth Avenue in the city of Delavan. It operates residential halls for its student enrollment.

Table 3-7. Group Quarters Population: 2010 Estimates

	Institutional	Non-Institutional	Total
Town			
Bloomfield	0	19	19
Darien	0	71	71
Delavan	8	10	10
East Troy	0	14	14
Geneva	0	19	19
Lafayette	0	0	0
La Grange	0	10	10
Linn	0	3	3
Lyons	0	0	0
Richmond	0	5	5
Sharon	0	0	0
Spring Prairie	0	0	0
Sugar Creek	0	17	17
Troy	0	3	3
Walworth	0	0	0
Whitewater	7	4	11
Village	0	0	0
Bloomfield [2]	0	0	0
Darien	0	0	0
East Troy	45	0	45
Fontana-on-Geneva Lake	0	0	0
Genoa City [1]	0	22	22
Mukwonago [1]	0	0	0
Sharon	0	0	0
Walworth	53	6	59
City	0	0	0
Burlington [1]	0	0	0
Delavan	56	28	84
Elkhorn	452	7	459
Lake Geneva	56	27	83
Whitewater [1]	92	1,608	1,700
Williams Bay	59	3	62
Walworth County	828	1,876	2,696

Source: 2010 Census

Notes: 1. Municipality located in Walworth County and another county

2. The village incorporated on December 20, 2011.

CRITICAL FACILITIES

1. CHAPTER OVERVIEW

This chapter focuses on those critical facilities in Walworth County that need to be evaluated in terms of natural hazards mitigation planning. For the purpose of this plan, critical facilities are categorized into the following classification scheme:

- ◆ Type I A facility that provides a public service, which if damaged would significantly impair a local governmental response
- ◆ Type II A facility that provides a public service, but which if damaged would not significantly impair a local governmental response
- ◆ Type III A facility that can cause greater damage to the surrounding area if damaged by a natural hazard
- ◆ Type IV A facility that primarily housing special populations such as the infirm, children, elderly, or people with development disabilities

In all, there were 692 critical facilities in the county (Table 4-1). There were 221 Type I facilities, 194 Type II, 61 Type III, and 216 Type IV facilities. Appendix E lists all of the critical facilities sorted by type and Appendix F provides a list sorted by jurisdiction.

As part of this project, the consultant created a Microsoft Access™ database to manage basic information for critical facilities identified in this plan. Each facility is assigned to one or more parcels using the county PIN number to facilitate use in the county’s geographic information system. Most of the facilities also have a digital picture. Because the crude oil pipeline and the natural gas pipeline cross multiple jurisdictions, they were not included in the database.

2. BRIDGES

The road network in the county consists of local, county, state, and federal roads. There are 93 locations where a federal, state, or county roadway crosses a waterbody such as a river, stream, or lake. These range in size from a single culvert to a multi-span bridge. These locations have been identified because flooding may overtop the roadway or backup floodwaters. The locations are shown on Map 4. Bridges that cross another roadway or railroad tracks were not considered a critical facility from the perspective of natural hazards.



Chapter Contents

1. Chapter Overview
2. Bridges
3. Dams
4. Public-Use Airports
5. Communication Towers
6. Telephone Facilities
7. Electric Facilities
8. Natural Gas Facilities
9. Petroleum Pipeline Facilities
10. Public Water Facilities
11. Wastewater Facilities
12. Fire and Police Services
13. National Guard Facilities
14. Government Facilities
15. Schools
16. Special Care Facilities-Residential
17. Special Care Facilities-Nonresidential
18. Health Care Facilities
19. Vulnerable Housing
20. American Red Cross Shelters

Table 4-1. Critical Facilities by Type: 2021

Facility Type	Type I	Type II	Type III	Type IV
Infrastructure				
Bridge	-	93	-	-
Dam (large & small)	-	-	54	-
Communication Tower	-	70	-	-
Electric Facility – Power Plant	-	-	-	-
Electric Facility – Substation	19	-	-	-
Natural Gas Facility	-	-	5	-
Natural Gas Pipeline	-	-	1	-
Petroleum Pipeline	-	-	1	-
Public-Use Airport	-	2	-	-
Telephone Facility	9	-	-	-
Utility Offices/Yard	6	-	-	-
Water Facility [1]	50	-	-	-
Wastewater Facility	10	-	-	-
Government Facility				
Community Center	-	-	-	-
Library	-	11	-	-
Municipal Garage	28	-	-	-
Municipal Office and Other	41	-	-	-
Post Office	-	16	-	-
Senior Center	-	1	-	-
Recreation	-	1	-	-
Health Care Facility				
Health Care Clinic	13	-	-	-
Hospital	2	-	-	-
Public Safety Facility				
EMS Facility	4	-	-	-
Fire Station	20	-	-	-
National Guard Facility	2	-	-	-
Police Station	17	-	-	-
School				
K-12	-	-	-	57
Post-Secondary	-	-	-	4
Special Care Facility - Residential				
Adult Family Home	-	-	-	31 or 32
Community Based Residential Facility	-	-	-	32
Nursing Home	-	-	-	8
Residential Care Apartment Complex	-	-	-	8
Special Care Facility - Nonresidential				
Adult Day Care	-	-	-	2
Group Day Care	-	-	-	50
Vulnerable Housing				
Mobile Home Park	-	-	-	8
Campground	-	-	-	16
Total	221	194	61	216 - 217

Notes: 1. Types of facilities included in this category include wells, towers, and treatment plants.

Key Terms in This Chapter

Adult day care – A place where adults receive care for less than 24 hours.

Adult family home (AFH) – A place where three or four adults who are not related to the operator reside and receive care, treatment, or services that are above the level of room and board and that may include up to seven hours per week of nursing care per resident.

Community based residential facility (CBRF) – A place where five or more adults reside who are not related to the operator, who do not require care above intermediate level nursing care, and who receive care, treatment, or services that are above the level of room and board, but includes no more than three hours of nursing care per week per resident.

Group day care – A place where a person for less than 24 hours a day provides care and supervision for 9 or more children who are not related to the provider.

Nursing home – A place where unrelated individuals live, who because of their mental or physical condition, are given 24-hour personal care and nursing care, but who do not require hospitalization.

Large dam – A dam that either (1) has a structural height of over 6 feet and impounds 50 acre-feet or more, or (2) has a height of 25 feet or more and impounds more than 15 acre-feet.

Power plant – A facility containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Public-use airport – An airport open for public use without prior permission, and without restrictions within the physical capacities of available facilities. A public-use airport may or may not be publicly owned.

Residential care apartment complex (RCAC) – A multi-family building where five or more adults reside in independent dwelling units and also receive not more than 28 hours per week of supportive services, personal assistance, and nursing assistance.

Small dam – A dam not classified as a large dam.

Substation – An auxiliary power station where electrical current is converted, as from DC to AC, or where voltage is stepped up or down.

3. DAMS

According to the community inventory there are 54 dams in the county. Honey Creek had the highest number of dams followed by Whitewater Creek. Map 4 shows the location of dams (large and small) within the county.

For the purposes of this plan, dams are classified as a Type III critical facility in that a dam failure would cause additional impacts primarily to downstream properties.

4. PUBLIC-USE AIRPORTS

There were two public-use airports in the county (Map 5). East Troy Municipal airport is located on the city's east side and a small portion of Burlington Municipal airport runway extends in the county. Both are classified as a general utility airport.¹ In addition to these public-use airports there were a number of private-use airports located throughout the county.

5. COMMUNICATION TOWERS

Map 6 shows the location of 70 communication towers located in the county.

6. TELEPHONE FACILITIES

Nine telephone facilities were maintained by telephone service providers (Map 6). They were located in the cities of Delevan and Lake Geneva, the towns of Sugar Creek and Richmond, as well as the villages of Darien, East Troy, Sharon, and Williams Bay.

7. ELECTRIC FACILITIES

There were no electric power plants in the county. One is located in the city of Whitewater, in Jefferson County. Nineteen substations were located throughout the county, primarily in or near urban areas (Map 7).

8. NATURAL GAS FACILITIES

Guardian Pipeline operates a high-pressure natural gas pipeline in the eastern part of the county (Map 7). There were a number of above-ground facilities associated with the pipeline. Because of concerns about security, the exact location of the pipeline is not precisely mapped in this plan.

9. PETROLEUM PIPELINE FACILITIES

Enbridge Energy operates a pipeline for transporting petroleum crude oil through the county. It extends from the city of Whitewater to the southeast (Map 7). It carries oil from Superior to Chicago where it is processed. Gate valves were located along the pipeline in number of locations. Because of concerns about security, the exact location of the pipeline is not mapped in this plan.

¹ General utility airports serve virtually all small general aviation single and twin-engine aircraft, both piston and turboprop, with a maximum takeoff weight of 12,500 pounds or less. These aircraft generally have approach speeds below 121 knots and wingspans of less than 79 feet. Typically, these aircraft are used for business and charter flying and for personal reasons. In Wisconsin, airports in this category normally have a primary runway length of 3,900 to 4,800 feet.

10. PUBLIC WATER FACILITIES

Public water facilities inventoried for this plan include water wells, towers, reservoirs, and treatment plants. A total of 50 facilities were identified and are shown on Map 8.

11. WASTEWATER FACILITIES

There were 10 wastewater treatment plants in Walworth County, and they were located in each of the urban areas and in the more developed areas of the towns of Darien, Lyons, and Sharon (Map 8).

12. FIRE AND POLICE FACILITIES

Within Walworth County, there were 17 police stations and 20 fire stations (Map 9). Generally, EMS services were housed with a fire station or police station. In four instances though, EMS services were housed in a stand-alone building.

13. NATIONAL GUARD FACILITIES

There were two National Guard facilities. One is in the city of Elkhorn and the other is in the city of Whitewater (Map 9).

14. GOVERNMENT FACILITIES

Government facilities included in the inventory of critical facilities include a wide array of facilities including community centers, public libraries, municipal garages, municipal offices, post offices, and senior centers. Map 10 shows the location of these facilities.

15. SCHOOLS

Within Walworth County, there were 57 schools serving kindergarten through high school and 4 post-secondary schools. Both Gateway Technical College and Upper Iowa University were located in the city of Elkhorn. The University of Wisconsin-Whitewater is located in the city of Whitewater, while George Williams College of Aurora University is located in the village of Williams Bay (Map 11).

16. SPECIAL CARE FACILITIES - RESIDENTIAL

Special care facilities include various types of housing arrangements where residents receive care or supervision from trained personnel. Special care facilities include nursing homes, residential care apartment complexes (RCACs), community based residential facilities (CBRFs), and adult family homes (AFHs) (Map 12). There were 8 nursing homes in the county, 8 RCACs, 32 CBRFs, and 31 AFHs.

In a RCAC, people live in independent dwelling units complete with a kitchen, a bathroom, and sleeping and living areas. The management team provides supportive services such as general housekeeping and transportation to access community services and recreational activities. Personal services are also provided and may include help with daily activities such as dressing, eating, bathing, and grooming. Finally nursing services are available to help with health monitoring, medication administration, and medication management. There are

Water tower in the City of Lake Geneva



Electric substation in the City of Elkhorn



Tibbets Elementary School in the Town of Sugar Creek



7 RCACs in Walworth County. There was one in each of the cities of Delavan, Elkhorn, and Lake Geneva, one located in the town of Walworth, and one in each of the villages of East Troy, Walworth, and Williams Bay.

CBRFs and AFHs are similar in terms of the level of care provided. One significant difference between them is the number of residents served in the facility. An AFH can serve up to four adults. A CBRF serves five or more adults.

17. SPECIAL CARE FACILITIES – NONRESIDENTIAL

Nonresidential special care facilities include group day care centers and adult day care centers (Map 13). Group day care centers provide child care for nine or more children. Adult day care centers provide care to older adults who may live at home but need care during the day because the spouse or other primary care giver is not able to provide care.

There were 40 group day care centers located throughout the county primarily in more urban areas. There are 2 adult day care centers in the county.

Fairhaven Retirement Community and Hearthstone Memory Care in the City of Whitewater



18. HEALTH CARE FACILITIES

For the purpose of this plan, health care facilities are divided into two types: hospitals and health care centers. Health care centers provide sub-acute medical and include ambulatory surgery centers, and health care clinics are medical offices for a number of practitioners.

There were two hospitals in the county. Aurora Lakeland Medical Center is a full-service hospital serving the region with inpatient and outpatient care, ranging from diagnostics to the most advanced medicine. Mercy Walworth Hospital and Medical Center is a six-bed facility. Prior to becoming certified as a hospital in 2006, it was known as Mercy Walworth Medical Center.

There were 13 health care clinics located throughout the county. Aurora Health Care, which operates Aurora Lakeland Medical Center, operates health care clinics in the cities of Delavan, Elkhorn, and Lake Geneva and in the villages of East Troy and Walworth. Map 14 shows the location of health care facilities along with the service areas for the three emergency medical service (EMS) providers serving Walworth County.

Aurora Lakeland Medical Center in the City of Elkhorn



19. VULNERABLE HOUSING

Vulnerable housing, including campgrounds and mobile home parks, is described in Chapter 3.

20. AMERICAN RED CROSS SHELTERS

American Red Cross in Southeastern Wisconsin (49110) serves Walworth County along with Dodge, Kenosha, Milwaukee, Ozaukee, Racine, Washington, and Waukesha counties in southern Wisconsin and Price and Taylor counties in northern Wisconsin. Table 4-2 lists designated shelters available during an emergency; many of these are also classified as critical facilities.

Table 4-2. American Red Cross Shelters: 2021

Facility Name	Address	Jurisdiction	Sleeping Capacity	Meal	Meal	Back-up Generator
				Preparation Capacity	Serving Capacity	
First Congregational United Church of Christ	715 Wisconsin St	City of Lake Geneva	0	0	250	No
Badger High School	220 South St	City of Lake Geneva	520	0	700	Yes
Big Foot High School	401 Devils Ln	Village of Walworth	156	216	216	Yes
Calvary Community Church	Hwy 50 and Harris Rd	Village of Williams Bay	0	0	0	No
Community Church of Fontana	275 Kinzie St	Village of Fontana-on-Geneva	0	0	250	No
Delavan United Methodist Church	213 South 2 nd St	City of Delavan	37	150	150	No
East Troy Bible Church	2660 North Street	Village of East Troy	112	0	0	No
Elkhorn Area High School	482 E Geneva St	City of Elkhorn	0	450	450	Yes
First Congregational Church of East Troy	2931 Union St	Village of East Troy	0	0	0	No
First English Lutheran Church	401 W Main St	City of Whitewater	52	120	120	No
First Evangelical Lutheran Church	415 Devendorf St	City of Elkhorn	22	50	100	No
First United Methodist Church	111 N Broad St	City of Elkhorn	0	110	110	No
Fontana Elementary School	450 S Main St	Village of Fontana-on-Geneva	0	120	100	No
Grace Evangelical Free Church	215 South Main St	Village of Walworth	0	175	175	No
Lyons Center School	1622 Mill Street	Town of Lyons	0	0	320	No
St. Benedict Catholic Church	137 Dewey Ave	Village of Fontana-on-Geneva	0	0	0	No
St. Patrick Parish School	534 Sunset Dr	City of Elkhorn	108	130	200	No
St. Patrick's Parish	1235 W Main St	City of Whitewater	0	200	0	No
St. Paul's Evangelical Lutheran Church	2665 North St	Village of East Troy	0	0	300	No
Tibbets Elementary School	N7850 USH 12	Town of Sugar Creek	0	0	200	No
Whitewater Assembly of God	1540 W Walworth Ave	City of Whitewater	24	0	0	No
Whitewater Middle School	401 S Elizabeth Ave	City of Whitewater	0	0	0	Yes
Williams Bay School	139 Congress St	Village of Williams Bay	0	200	120	No
Williams Bay United Church of Christ	46 Stam St	Village of Williams Bay	0	0	0	No

Source: American Red Cross

NATURAL HAZARDS ASSESSMENT

1. CHAPTER OVERVIEW

This chapter evaluates the natural hazards that have or could occur in the county. Initially, 14 hazards were identified. Because earthquakes and landslides pose such a low risk, they were dropped from future consideration. The remaining 12 hazards are described in detail. After describing the nature of the hazard, the frequency of occurrence is documented along with its effect on critical facilities, various population groups, and economic sectors. Estimates of economic loss are included for each of the natural hazards.

2. HAZARD IDENTIFICATION

As part of an initial screening process, the working group used the methodology developed by Wisconsin Emergency Management¹ to evaluate natural hazards in Walworth County to determine which warrant the most attention. For each hazard, the members used a group consensus process to assign a numeric value to the 10 factors listed in Table 5-1.

Table 5-1. Natural Hazard Assessment Criteria

Factor	Description
Historical Hazard Frequency	Frequency of past occurrences
Anticipated Hazard Probability	Probability of the hazard occurring again
Historical Health and Public Safety	Degree of past hazard events causing injuries, sickness, and/or deaths
Residential Damage	Degree of past hazard events causing damages to homes
Business Damage	Degree of past hazard events causing damages to businesses
Public Costs	Amount of local, state, and federal funds expended on past hazard recovery activities
Magnitude of Population at Risk	Amount of the area's population still vulnerable to injury, sickness, and/or death
Magnitude of Homes at Risk	Amount of homes still vulnerable to damage
Magnitude of Businesses at Risk	Amount of businesses still vulnerable to damage or interruption of business trade
Magnitude of Public Infrastructure at Risk	Amount of infrastructure that is susceptible to damages

Source: Resource Guide to All Hazards Mitigation Planning In Wisconsin, 2003. Wisconsin Emergency Management

Table 5-2 shows the results of that exercise. The three highest ranked natural hazards are winter storms, stormwater flooding, and thunderstorms. Given the distance to a known fault line, earthquakes were judged to be of little concern. In addition, given the topography and soils in the county, land failures, including subsidence and mass movement, were judged to be of little concern. Both of these were removed from further consideration in this plan.

The nature of the identified hazards are quite different (Table 5-3). Some of the hazards are characteristically localized occurrences, while others could



Chapter Contents

1.

Chapter Overview
2.

Hazard Identification
3.

History of Weather-Related Events
4.

Presidential Declarations
5.

Dam Failure
6.

Flooding
7.

Ice Shoves
8.

Dense Fog
9.

Tornadoes
10.

Hailstorms
11.

Thunderstorms
12.

Winter Storms
13.

Extreme Heat
14.

Extreme Cold
15.

Drought
16.

Wildland Fire
17.

Summary of Risk by Jurisdiction
18.

Summary of Damage Estimates

¹ Resource Guide to All Hazards Mitigation Planning In Wisconsin, 2003. Wisconsin Emergency Management

potentially cover all of Walworth County and the surrounding region. Further, some hazards occur with little advance warning and others, such as riverine flooding, can be forecasted with some degree of accuracy several days in advance of the actual event.

Table 5-2. Comparative Analysis of Natural Hazards; Walworth County: 2021

	1	2	3	4	5	6	7	8	9	10	11
			Historical				Magnitude	Magnitude	Magnitude	Magnitude	
	Historical	Expected	Health and	Residential	Business	Public	of	of	of	of Public	
	Hazard	Hazard	Public	Damage	Damage	Costs	Population	Homes	Business	Infrastructure	
	Frequency	Probability	Safety				at Risk	at Risk	at Risk	at Risk	Rating
Natural Hazard	(1,2,3)	(1,2,3)	(1,2,3)	(1,2,3)	(1,2,3)	(1,2,3)	(1,2,3)	(1,2,3)	(1,2,3)	(1,2,3)	Total
Storms - snow **	3	3	2	2	2	3	3	2	2	3	25
Flooding - stormwater	3	3	2	2	2	3	2	2	2	3	24
Storms - thunderstorm	3	3	2	2	2	3	2	2	2	3	24
Storms - hail **	3	3	1	2	2	3	2	2	2	2	22
Tornado	3	3	2	2	2	3	1	1	1	2	20
Dense fog	3	3	2	1	1	1	1	1	1	1	15
Extreme temperature **	2	2	1	1	1	1	1	1	2	2	14
Drought	1	1	1	1	2	1	1	1	2	1	12
Flooding - floodplain	1	1	1	1	1	1	1	1	1	1	10
Ice shoves	1	1	1	1	1	1	1	1	1	1	10
Dam failure	1	1	1	1	1	1	1	1	1	1	10
Wildland fire	1	1	1	1	1	1	1	1	1	1	10

Notes: This matrix is based on a qualitative assessment and is intended to identify those hazards posing the greatest concern.

A low, medium, or high numerical rating of 1, 2, or 3, respectively, is assigned to each criterion and then the ratings for each hazard are totaled.

** The ratings for these hazards are based on occurrences in the region.

Column 1 refers to the frequency of past occurrences.

Column 2 refers to the probability of the hazard occurring again.

Column 3 refers to the degree of past hazard events causing injuries, sickness, and/or deaths.

Column 4 refers to the degree of past hazard events causing damages to homes.

Column 5 refers to the degree of past hazard events causing damages to businesses.

Column 6 refers to the amount of local, state, and federal funds expended on past hazard recovery activities.

Column 7 refers to the amount of the area's population still vulnerable to injury, sickness, and/or death.

Column 8 refers to the amount of homes still vulnerable to damage.

Column 9 refers to the amount of businesses still vulnerable to damage or interruption of business trade.

Column 10 refers to the amount of infrastructure that is susceptible to damages.

Column 11 is the raw score for the hazard.

In an effort to keep residents and local officials informed about potential events, the National Weather Service (NWS) issues, outlooks, watches, and warnings for most weather events. NWS mentions the possibility of a hazard in daily message entitled "Hazardous Weather Outlook" (HWO) that is disseminated to the media, posted on its web site, broadcast on NOAA Weather Radio All Hazards, and made available on various computer circuits. An outlook covers possible events seven days out. Confidence factor is about 30 percent for issuance. A message entitled "watch" for most weather hazards is generally issued hours to a couple days in advance of a possible event. Confidence factor

is about 60 percent for issuance. It is disseminated to the media, posted on the NWS web site, is broadcast on NOAA Weather Radio All Hazards, and is made available on various computer circuits. A “warning” message for most weather hazards has a confidence factor of 80 to 100 percent. It is disseminated to the media, posted on the NWS web site, broadcast on NOAA Weather Radio All Hazards, and made available on various computer circuits. Table 5-3 also lists the recurrence interval for the various natural hazards. Some hazards have the potential to occur often, while others occur rather infrequently.

Table 5-3. Nature of Natural Hazards; Walworth County

Natural Hazard	Extent	Amount of Advance Notification			Recurrence Interval (Years)
		Outlook	Watch	Warning	
Dam Failure	Along affected stream corridor	None to weeks	None to weeks	None to 30 to 90 minutes	N/A [1]
Flooding – Riverine	Along affected stream corridor	Several days	Hours to 1 day	30 to 90 minutes	100 [2]
Flooding – Stormwater	Poorly drained areas	Several days	Hours	10 to 90 minutes	100 [2]
Ice Shove	Large lakes, such as Lake Geneva	Several days	Hours	10 to 90 minutes	5
Dense Fog	Small pockets in low-lying areas to countywide	Several days	-	30 minutes to hours	1
Tornado	Generally, a linear path up to several miles long	Several days	Hours	5 to 60 minutes	2.7
Hail Storm	1 square mile and larger	Several days	Hours	5 to 60 minutes	1
Thunderstorm Winds	10 square miles and larger	Several days	Hours	5 to 60 minutes	1
High Winds (Non-thunderstorm)	10 square miles and larger	Several days	12 to 48 hours	30 minutes to 24 hours	1
Snow Storm	Countywide	Several days	12 to 48 hours	1 to 40 hours	1
Extreme Heat	Countywide	Several days	12 to 48 hours	1 to 24 hours	2
Extreme Cold	Countywide	Several days	12 to 48 hours	1 to 24 hours	1
Drought - short-lived	Countywide	Several months	-	-	10
Drought - long-lived	Countywide	Year	-	-	75
Wildland Fire - 25 acres or more	25 to 160 acres	None to hours	Hours	Hours	100
Wildland Fire - less than 25 acres	Less than 25 acres	None to hours	Hours	Hours	10

Notes: 1. It is not possible to define a recurrence interval for this type of hazard
 2. Based on a 100-year flood

Table 5-4 lists each of the hazards and identifies whether they will have an impact on the critical facilities identified in this plan, noncritical buildings and structures, special populations, the general population, and broadly defined economic sectors.

Table 5-4. General Effects of Natural Hazards on Facilities, Population Groups, and Economic Sectors; Walworth County: 2021

Critical Facility		Dam Failure	Flooding - Riverine	Flooding - Stormwater	Ice Shoves	Dense Fog	Tornado	Hail Storms	Thunderstorm	Snow Storms	Extreme Temperature	Drought	Wildland Fire
Infrastructure	Bridge	D	D	-	-	-	-	-	-	-	-	-	-
	Dam	D	D	-	-	-	-	-	-	-	-	-	-
	Communication Tower	-	-	-	-	-	D	-	-	-	-	-	-
	Electric Facility – Power Plant	-	-	-	-	-	D	-	-	-	-	-	-
	Electric Facility – Substation	-	-	-	-	-	D	-	-	-	-	-	-
	Natural Gas Facility	-	-	-	-	-	D	-	-	-	-	-	-
	Petroleum Pipeline	-	-	-	-	-	-	-	-	-	-	-	-
	Public-Use Airport	-	-	-	-	D	D	I	I	D	-	-	-
	Telephone Facility	-	-	-	-	-	D	-	-	-	-	-	-
	Utility Offices/Yard	-	-	-	-	-	D	-	-	-	-	-	-
	Water Facility [1]	-	-	-	-	-	D	-	-	-	-	I	-
	Wastewater Facility	-	-	-	-	-	D	-	-	-	-	-	-
Government Facility	Community Center	-	-	-	-	-	D	D	-	-	-	-	-
	Library	-	-	-	-	-	D	D	-	-	-	-	-
	Municipal Garage	-	-	-	-	-	D	D	-	-	-	-	-
	Municipal Office and Other	-	-	-	-	-	D	D	-	-	-	-	-
	Post Office	-	-	-	-	-	D	D	-	-	-	-	-
	Senior Center	-	-	-	-	-	D	D	-	-	-	-	-
Health Care Facility	Health Care Clinic	-	-	-	-	-	D	D	-	-	-	-	-
	Hospital	-	-	-	-	-	D	D	-	-	-	-	-
Public Safety Facility	EMS Facility	-	-	-	-	-	D	D	-	-	-	-	-
	Fire Station	-	-	-	-	-	D	D	-	-	-	-	-
	National Guard Facility	-	-	-	-	-	D	D	-	-	-	-	-
	Police Station	-	-	-	-	-	D	D	-	-	-	-	-
School	K-12	-	-	-	-	-	D	D	-	-	-	-	-
	Secondary	-	-	-	-	-	D	D	-	-	-	-	-
Special Care Facility - Residential	Adult Family Home	-	-	-	-	-	D	D	-	-	-	-	-
	Community Based Residential Facility	-	-	-	-	-	D	D	-	-	-	-	-
	Nursing Home	-	-	-	-	-	D	D	-	-	-	-	-
	Residential Care Apartment Complex	-	-	-	-	-	D	D	-	-	-	-	-
Special Care Facility - Nonresidential	Adult Day Care	-	-	-	-	-	D	D	-	-	-	-	-
	Group Day Care	-	-	-	-	-	D	D	-	-	-	-	-
Vulnerable Housing	Mobile Home Park	-	-	-	-	-	D	D	-	-	-	-	-
	Campground	-	-	-	-	-	D	D	-	-	-	-	-
Population Groups													
General Public		-	-	-	-	-	I	-	-	-	I	I	-
Elderly and People with Disabilities		-	-	-	-	-	-	-	-	-	D	-	-
Homeless		-	-	-	-	-	-	-	D	D	D	-	-
Economic Sector													
Agriculture		-	D	D	-	-	-	D	I	-	I	D	-
Commercial		-	-	-	-	-	-	-	-	-	-	I	-
Industrial		-	-	-	-	-	-	-	-	-	-	-	-
Transportation		-	-	-	I	-	-	-	-	-	-	-	-

Notes: 1. Types of facilities included in this category include wells, towers, and treatment plants

Key: "-" No or minimal effect; "I" – Indirect Effect; "D" – Direct Effect

3. HISTORY OF WEATHER-RELATED EVENTS

Table 5-5 presents a summary of documented weather-related events that have affected Walworth County since 1950 (See Appendix G for a list of all events). Strong winds associated with a thunderstorm occur with the highest frequency—on average almost 3.5 half times a year. Occurring just over once per year, hail is the second most common weather-related event. Flooding, lightning, severe winter weather, and tornadoes have about the same low recurrence interval.

Out of all of the weather-related events, extreme cold is the only event resulting in a direct fatality. Wind events caused 26 injuries. Lightning caused 17 injuries. Although tornadoes can cause dramatic localized damage, only three injuries over the 62-year period in Walworth County have been reported.

Flooding over the years has caused by far the most damage to property and crops (\$48.3 million). At \$8.95 million, wind events caused the second highest amount of economic impact. Tornadoes caused \$5.8 million in damage.

Table 5-5. Summary of Weather-Related Events; Walworth County: 1950 through May 2021

Type of Event	Number of Events	Direct Deaths	Direct Injuries	Property Damage	Crop Damage
Drought	16	0	0	0	\$4,500,000
Heat	40	0	0	0	0
Extreme Cold	22	2	0	\$22,000	0
Flood	22	0	4	\$14,726,000	\$33,583,000
Dense Fog	73	0	0	0	0
Funnel Cloud	8	0	0	0	0
Hail	110	0	0	\$1,000	\$2,000
Heavy Rain	6	0	0	\$4,000	0
Lightning	25	0	17	\$487,000	0
Tornado	28	0	3	\$5,928,000	\$71,000
Winds, High	11	0	1	\$730,000	0
Winds, Strong	44	0	0	\$854,000	0
Winds, Thunderstorm	298	0	21	\$7,239,000	\$110,000
Winter Storms	119	0	5	\$21,000	0
Total	822	2	51	\$30,012,000	\$38,266,000

Source: National Climatic Data Center

See Appendix G for a complete listing of weather events during the reporting period

4. PRESIDENTIAL DECLARATIONS

Since 1965, there have been 33 major disaster declarations issued for Wisconsin, 7 emergency declarations, and no fire management assistance declarations. Walworth County has been included in three disaster declarations and three emergency declarations (Table 5-6).

Major Disaster Declaration A major disaster declaration was issued for Walworth County in 2000, 2004, 2008, and 2020 (Table 5-6). Both individual

assistance and public assistance grants were made to help local communities respond to severe storms and flooding.

Emergency Declaration In 2005, an emergency declaration was issued for all 72 counties in the state as part of the nationwide response to Hurricane Katrina. In 2001, Walworth County was one of 21 counties covered by an emergency declaration for a severe winter storm. In 2008, there was an emergency declaration issued for 11 counties in the state for the snow and blowing snow. Most recently, a statewide emergency declaration was issued in 2020 for the Covid-19 Pandemic (EM-3454-WI).

Fire Management Assistance Declaration No fire management assistance declarations have been issued for Walworth County (and it is unlikely that one would be issued given the nature of that category of declaration).

Table 5-6. Presidential Disaster Declarations, Walworth County: 1965 – 2021

Major Disaster	Year	Description	Number of Counties By Type of Assistance	
			Public	Individual
DR-4520-WI	2020	Covid-19 Pandemic	52	
DR-1768-WI	2008	Severe storms, tornadoes, flooding	28	29
DR-1526-WI	2004	Severe storms, icing, wind, flooding	17	27
DR-1332-WI	2000	Severe storms, tornadoes, flooding	24	15
Emergency				
EM-3454-WI	2020	Covid-19 Pandemic	52	
EM-3285-WI	2008	Snow	11	0
EM-3249-WI	2005	Hurricane Katrina evacuation	72	0
EM-3153-WI	2001	Severe Winter Storm	21	0
Fire Management Assistance				
None	-	-	-	-

Source: Federal Emergency Management Agency (<http://www.fema.gov/news/disasters.fema> accessed November 9, 2012) and Wisconsin Emergency Management

Denied Applications for Presidential Disaster Declaration On one occasion, the county's application for a presidential disaster declaration was denied (Table 5-7).

Table 5-7. Denied Applications for Presidential Disaster Declarations, Walworth County: 1990 – 2021

Year	Number of Counties Included		Description
1996	14		Flooding, severe storms

Source: Wisconsin Emergency Management

5. DAM FAILURE

PROFILE

A dam failure involves the uncontrolled release of impounded water when the structure fails. A dam can fail because of excessive rainfall or melting snow, poor construction or maintenance, flood damage, earthquake activity, weakening caused by burrowing animals, vegetation, surface erosion, vandalism, or a combination of factors. When a dam does fail, the impounded water flows unimpeded and, depending on what development is located downstream, can potentially cause significant property damage and loss of life.

HISTORY OF PAST OCCURRENCES

According to the Wisconsin Department of Natural Resources, there are about 3,700 dams in the state. Between 1990 and 1995, 75 dam failures were documented, many of which resulting from the flooding that occurred statewide in 1993. There are no documented dam failures in Walworth County.

VULNERABILITY ASSESSMENT

According to the Department of Natural Resources, there were 50 known dams in the county. Over the years, nine of the dams were removed or fell into disrepair and do not currently impound water (Table 5-8). Of the existing dams that remain intact today, 18 are classified as large and 23 are small.

Table 5-8. Abandoned Dams: 2021

ID	Official Name	Jurisdiction
-	Vienna Dam	Spring Prairie, Town
-	Vaughn's Dam	Spring Prairie, Town
-	Lyons Dam	Lyons, Town
-	Spring Valley Dam	Lyons, Town
-	Genoa Dam	Genoa City
-	Haskins Dam	Lake Geneva
-	Fontana Dam	Fontana-on-Geneva Lake
-	Tildens Dam	Delavan, City
1190	Delevan #2 -Grist Mill	Delavan, City

Source: Wisconsin Department of Natural Resources

A failure of a small dam would likely not cause damage. Given the amount of water impounded behind a large dam, dam failure is a concern in varying degrees. Dams are also classified based on the threat to downstream property if a dam failed as specified in Section 333.06, Wis. Admin. Code. A dam rated as a high hazard indicates that a failure would most probably result in the loss of life. A significant hazard indicates that a dam failure could result in appreciable property damage. A low hazard rating is assigned to dams where a dam failure would result in only minimal property damage and where loss of life is unlikely. Of the 18 existing large dams, 3 are classified as significant and 3 as high (Table 5-8). The remaining dams are either unclassified or classified as low.

Section NR 333.07(3), Wisconsin Administrative Code, mandates that owners of a large dam or a dam that poses a threat to life or property must prepare an emergency action plan (EAP). An EAP is a document that identifies potential emergency conditions at a dam and procedures to be followed to eliminate the loss of life and minimize downstream property damage. When drafting an EAP,

the dam operator must consult with the local units of government that lie downstream of the dam as well as the county emergency management department.

Walworth County adopted an EAP for the Lake Beulah dam in 2008. The plan indicates that there are residences immediately downstream of the dam and that they would be inundated should the dam fail. No critical facilities, such as hospitals, rescue and relief facilities, water supply facilities, hazardous waste facilities, or bridges are located in the hazard area. If the dam were to fail, County Highway J would be closed.

According to the DNR inventory, an EAP has not been prepared for 13 of the 18 existing large dams (Table 5-9).

Based on historical data and the lack of multiple large, high-risk dams in the county, it is unlikely that a catastrophic dam failure, resulting in the loss of life and property, will occur in Walworth County in the future.

Table 5-9. Active Large Dams: 2021

ID	Official Name	Jurisdiction	Ownership	Stream Name	Date of Last Inspection	Hazard Rating Code [1]	Status of Emergency Action Plan
84	Lake Geneva	Geneva, town	Private	White River	8/21/2007	Low	2011
212	Lauderdale Lakes	La Grange, town	Private	Hone Creek	7/25/2008	Significant	Not done
213	Old Paper Mill	Whitewater, city	City	Whitewater Creek	3/17/2003	High	Not done
214	Old Paper Mill	Whitewater, city	City	Whitewater Creek	1/15/2008	High	Not done
321	Delavan	Delavan, city	City	Turtle Creek	1/28/2005	Low	Not done
322	Whitewater Lake	Whitewater, town	County	Whitewater Creek	1/14/2008	Low	Not done
323	Honey Lake	Spring Prairie, town	Private	Sugar Creek	10/12/2007	Low	2012
451	Grethe	Bloomfield, town	Private	Bloomfield Creek	6/26/2000	Low	Not done
699	Lake Beulah	East Troy, town	Joint [2]	Lake Beulah outlet	11/12/2007	High	May 2008
701	Pabst	Troy, town	Private	Baker Creek	8/21/2007	Low	Not done
702	Borg	Delavan, town	Town	Turtle Creek	8/21/2007	Low	2004
768	Val Sauer	Bloomfield, town	Private	Spring Valley Creek	4/1/1997	Low	Not done
856	Rice Lake	Whitewater, town	DNR	Whitewater Creek	1/14/2008	High	Not done
986	Kettle Moraine Estates Corp.	Troy, town	Private	Lulu Lake	4/1/1997	Low	Not done
997	Droster, Elmer	Lafayette, town	Private	Trib. Sugar Creek	7/20/2008	Low	2006
1234	Turtle Valley Central Phase	Richmond, town	DNR	Sugar Creek	2/16/2005	Low	Not done
1236	Turtle Valley Phase III	Sugar Creek, town	DNR	Unnamed	2/16/2005	Low	Not done
12450	Morrissey	Darien, town	Private	Turtle Creek	7/19/2008	Low	Not done

Source: Wisconsin Department of Natural Resources, data accessed September 2008

Key: 1. High - loss of life likely should dam fail; Significant - significant property damage is likely; Low - neither loss of life or property will occur
2. Joint ownership involving Walworth County, lake district, and private individuals

Effects on Facilities – As previously mentioned, there are no critical facilities downstream of the Beulah Lake dam that would be affected if the dam were to fail. In terms of the other dams, much of the released waters resulting from a failure would be contained within the 100-year floodplain below the dam failure. Except for wastewater facilities, there are no critical facilities in the 100-year floodplain.

Effects on Population Groups – A dam failure would not disproportionately affect the elderly, people with disabilities, or the homeless.

Effects on Economic Sectors – Although a dam failure could damage individual structures, it likely would not affect the overall economy of the area or any particular economic sector.

Effects on New Development – Communities have the opportunity through the land division process to ensure that new development does not occur within defined dam inundation areas.

6. FLOODING

PROFILE

Riverine flooding occurs when a stream, lake, or other body of water overflows its banks onto normally dry land. Stormwater flooding occurs when stormwater pools in normally dry depressions in the land. Flooding can develop slowly over a period of days, but can also occur within a few hours in some watersheds with narrow stream channels.

HISTORY OF PAST OCCURRENCES

Documentation of historic flooding is available from the following sources:

- ◆ presidential disaster declarations
- ◆ records from the Federal Flood Insurance Program
- ◆ anecdotal information

Presidential Disaster Declarations – Since 1965, there have been seven presidential declarations in Walworth County; three of these were flood related (Table 5-6). Presidential disaster declarations were issued in 2000, 2004, and 2008.

Historical National Flood Insurance Program Claims In 1968, Congress adopted the National Flood Insurance Act, which among other things created the National Flood Insurance Program (NFIP). This program allows property owners to purchase flood insurance if their community participates in the program. In fact, certain homeowners must purchase flood insurance when their property is located in the regulatory floodplain and their mortgage is meets certain criteria. Property owners in the Village of Genoa City and Village of Williams Bay are not eligible to purchase flood insurance even if they want to do so, because the municipality has chosen to not participate in NFIP.

Table 5-10 summarizes the number and type of claims made by jurisdiction from January 1, 1978 through March 31, 2021. On a countywide basis, payments to policyholders totaled \$546,118 during this period.

Repetitive Loss Properties A property for which two or more National Flood Insurance Program losses of at least \$1,000 each have been paid within any 10-year rolling period since 1978 is referred to as a repetitive loss property. According to the National Flood Insurance Program, there were **two** repetitive loss properties in the county during **2021**, both of which were single-family residences.

Major Floods All streams and waterbodies may experience flooding at any time during the year. However, flooding is most common in early spring when the ground is frozen or saturated with water and rains and/or spring melt exceeds the capacity of the ground surface to absorb the additional water.

Within the county, the majority of the flooding occurs during the spring on Honey Creek, Sugar Creek, Turtle Creek, and White River. The watersheds of the other streams are comparatively small and flooding is characteristically minor. When floods do occur, they are generally during the warmer months of the year.

There are six historical gaging stations within the county: White River (#05-5453), a tributary of the White River (#05-5452), Sugar Creek (#05-5451), North Branch Nippersink Creek (#05-5481.5), and two on Whitewater Creek (#05-4265 and #05-4270). The drainage areas of the latter five are quite small and therefore flooding conditions at the gages would not have to be indicative of general flooding conditions within the county. The White River gage is located near the city of Burlington and was in operation from 1959 to 1983. Major floods were recorded in 1960, 1966, 1967, and 1969. The expected frequency for each of these floods was set at approximately once every 10 years.

Within the City of Delavan the majority of major floods on Turtle Creek and Swan Creek have occurred in the early spring and are usually the result of spring rains and/or snowmelt. A damaging flood occurred in the city of Delavan in 1973. At that time, heavy rainfalls and a debris-restricted control structure caused local flooding. Although no discharge measurements are available for this flood event, it has an estimated recurrence interval of approximately 65 years. No other flooding information was available for the city.

The majority of major floods on Honey Creek within the village of East Troy have occurred in the early spring and is usually the result of spring rains and/or snowmelt. Floods in the Honey Creek basin are characterized by high peak flows, with relatively small volumes. The majority of major floods in the city of Lake Geneva have occurred on the White River in the early spring. Historic lake elevations have been recorded since 1894 for Lake Geneva; high water elevations occurred in 1908 (865.1 feet) and in 1938 (864.9 feet). These elevations indicate floods with approximate recurrence intervals of 90 and 50 years respectively.

Table 5-10. National Flood Insurance Program Claims by Jurisdiction: 1978 through March 31, 2021

Jurisdiction	Total Losses	Total Payments
Village		
Bloomfield [2]	1	\$17,931
Darien	0	0
East Troy	0	0
Fontana-on-Geneva Lake	1	0
Genoa City [1]	2	\$776
Mukwonago [1]	0	0
Sharon	-	-
Walworth	0	0
Williams Bay	0	0
City		
Burlington [1]	0	0
Delavan	1	0
Elkhorn	-	-
Lake Geneva	3	\$20,322
Whitewater [1]	0	0
Walworth County, Unincorporated	32	\$507,089
Total	40	\$546,118

Source: National Flood Insurance Program, Federal Emergency Management Agency

Notes: 1. Municipality located in Walworth County and another county; data for Walworth County only
2. The Village incorporated on December 20, 2011

Without appropriate mitigation measures, the damage caused by a 100-year flood would dramatically exceed the damage caused by past floods.

The majority of major floods on Whitewater Creek and Spring Brook in the city of Whitewater have occurred in the early spring and are usually the result of spring rains and/or snowmelt. Floods in the Whitewater Basin are characterized by high peak flows, with relatively small volumes. Obstructions to flood flow from natural and manmade features impede the natural flow of water and in some cases causes a backwater effect. Natural obstructions include trees and other vegetation growing along stream banks and floodway areas. Manmade obstructions include numerous dams and bridges.

Stormwater Flooding Although flooding from streams and rivers can be quite dramatic, flooding from ponding stormwater can also be significant. In 2008, flooding resulting from spring rainfall occurred in the village of Walworth in Oak Knolls subdivision. In this case, flooding was localized around the development's stormwater detention basin as stormwater entered the detention pond but was not able to leave as designed. Local officials are working with an engineering firm and others to develop a range of solutions to correct the situation. As of this date, a preferred alternative has not been selected.

Road Closures Due to Flooding – 2007 and 2008 Periodically, flood water encroaches on major roads and in some cases requires transportation officials to close them to vehicular traffic. In August of 2007, STH 11 between Delavan and STH 14/89 was closed for approximately five days. In 2008, the county highway department around the 5th of June closed CTH ES from STH 12 and 67 (Abell's Corners) to CTH D due to water over the road just east of Cobb Road. CTH ES was closed for approximately 24 hours. That portion of STH 11 that was closed in 2007 was again closed in 2008 for approximately 36 hours. The highway department signed for "high water" and slowed traffic at CTH F and STH 11 for 4 days. Townline Road, near Booth Lake, was closed for numerous days in 2008.

A countywide 100-year flood could potentially cause more than \$21 million in damage to buildings.

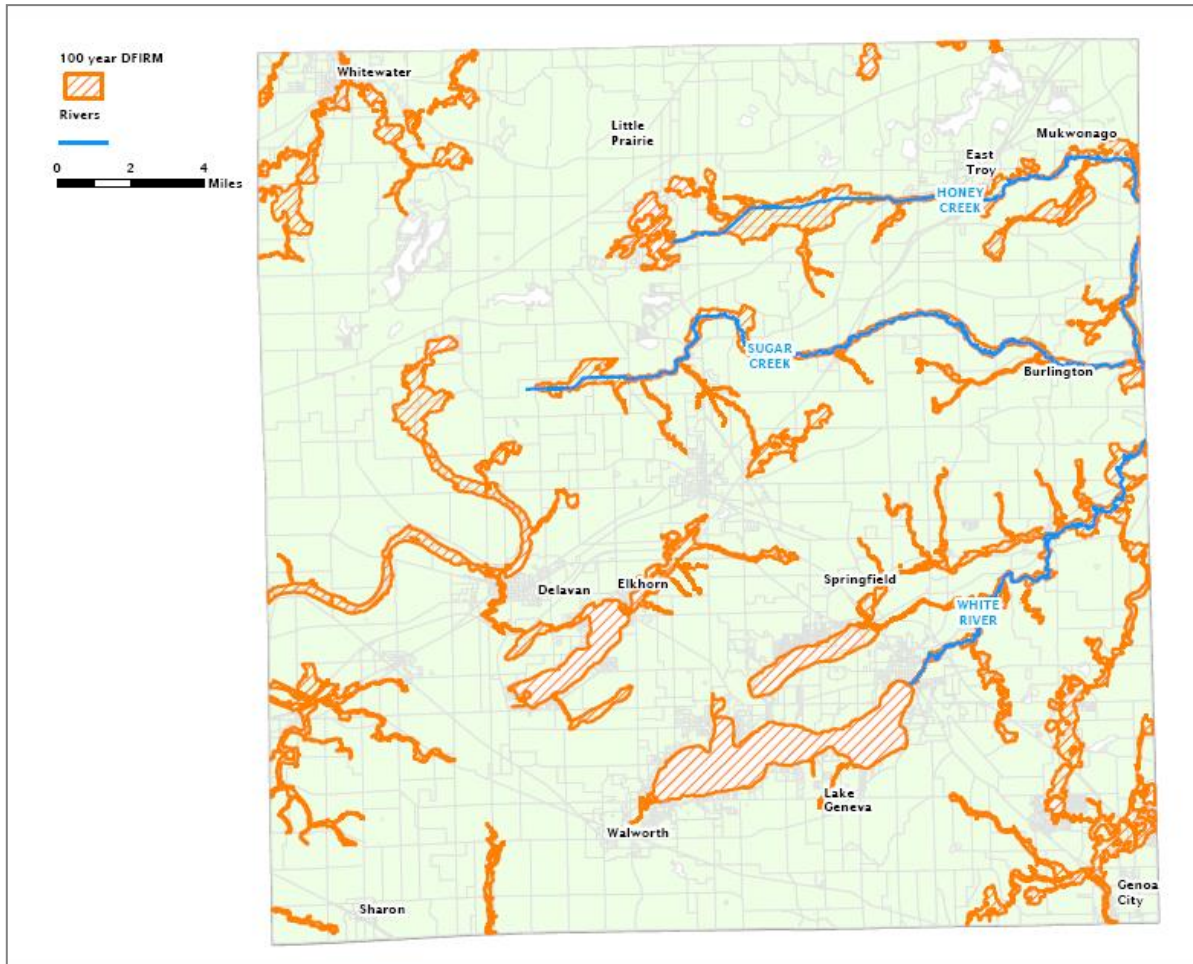
VULNERABILITY ASSESSMENT – 2007

Flood analysis for Walworth County was performed using HAZUS-MH MR3 released in July 2007. The bundled aggregated general building stock was updated to Dun & Bradstreet 2006. Building valuations were updated to R.S. Means 2006. Building counts based on census housing unit counts are available for RES1 (single-family dwellings) and RES2 (manufactured housing) instead of calculated building counts.

The site-specific inventory (specifically schools, hospitals, emergency operation centers, fire stations and police stations) was updated using the best available statewide information.

HAZUS-MH was used to generate the flood depth grid for a 100-year return period calculated by clipping the USGS 30m DEM to the DFIRM boundary. Exhibit 5-1 depicts the flood boundary from the HAZUS-MH analysis.

The majority of damages due to flooding occur along the White River, Honey Creek, and Sugar Creek.

Exhibit 5-1. HAZUS-MH Analysis (100-Year Flood): 2007

Aggregate Loss Analysis – HAZUS-MH was used to estimate the damages for a 100-year flood event in Walworth County. An estimated 285 buildings will be damaged totaling \$120 million in building losses and \$232 million in total economic losses. The total estimated number of damaged buildings, total building losses, and estimated total economic losses are shown in Table 5-11.

HAZUS-MH estimates 59 census blocks with losses exceeding \$1 million. The distribution of losses is shown in Exhibit 5-2.

HAZUS-MH aggregate loss analysis is evenly distributed across a census block. Census blocks of concern should be reviewed in more detail to determine the actual percentage of facilities that fall within the flood hazard areas. The aggregate losses reported in this study may be overstated.

Table 5-11. Economic Loss for a 100-Year Flood: 2007

General Occupancy	Estimated Total Buildings	Total Damaged Buildings	Total Building Exposure X 1000	Total Economic Loss X 1000	Building Loss X 1000
Agricultural	1	0	\$65,060	\$4,213	\$1,439
Commercial	248	0	\$1,174,043	\$43,263	\$13,965
Education	2	0	\$143,928	\$1,351	\$533
Government	6	0	\$53,757	\$1,447	\$371
Industrial	83	0	\$650,589	\$37,424	\$10,270
Religious/Non-Profit	14	0	\$122,661	\$4,069	\$1,282
Residential	35,387	285	\$7,094,257	\$140,750	\$92,150
Total	35,741	285	\$9,304,295	\$232,517	\$120,010

The reported building counts should be interpreted as degrees of loss rather than as exact numbers of buildings exposed to flooding. These numbers were derived from aggregate building inventories which are assumed to be dispersed evenly across census blocks. HAZUS-MH requires that a predetermined amount of square footage of a typical building sustain damage in order to produce a damaged building count. If only a minimal amount of damage to buildings is predicted, it is possible to see zero damaged building counts while also seeing economic losses.

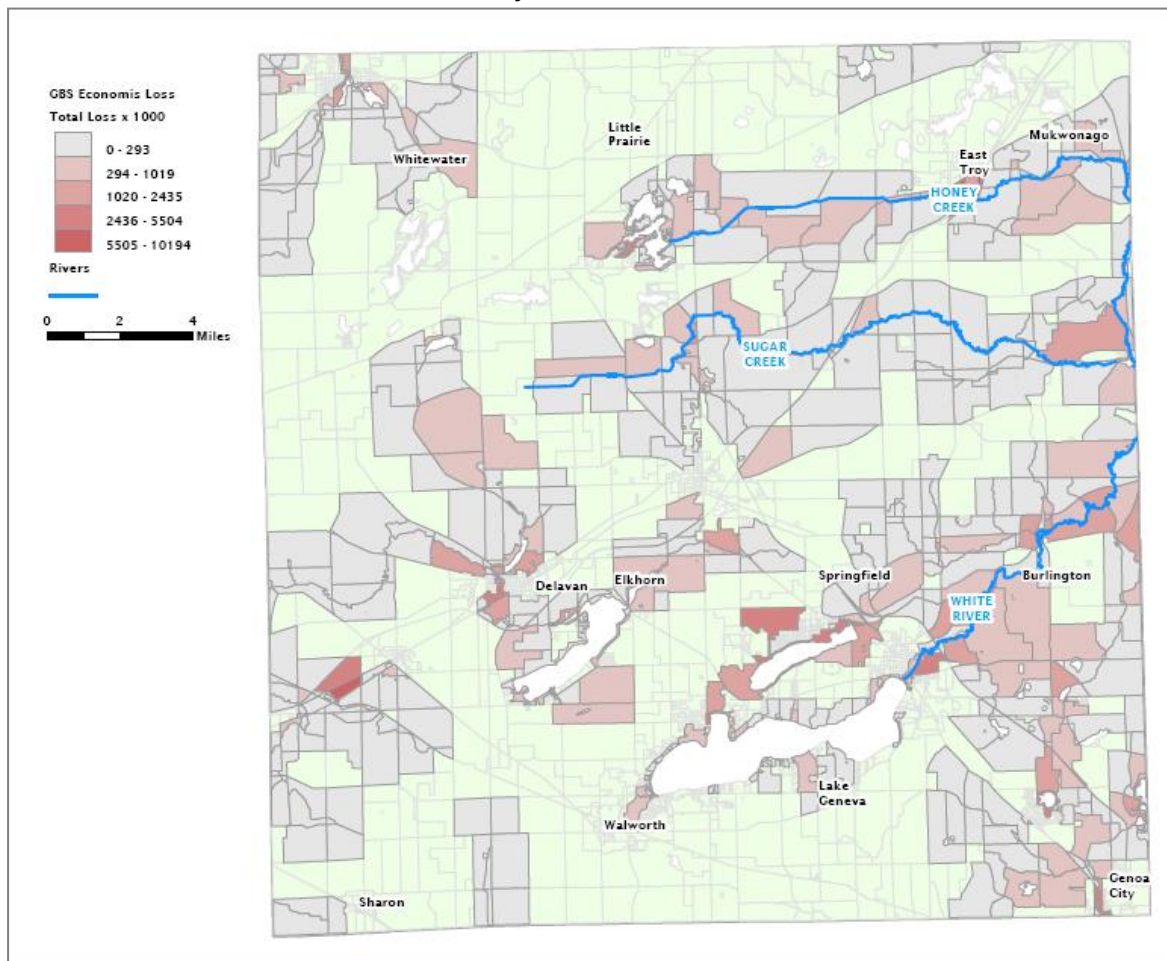
Exhibit 5-2. Economic Loss for a 100-Year Flood by Census District: 2007

Exhibit 5-3 shows census blocks overlaid with the flood boundary and orthophoto of East Troy. Census Block 551270001006021 has an estimated building loss of \$3.4 million with a combined replacement cost of \$10 million. However, the orthophoto shows that the majority of the buildings in this census block lie outside of the floodplain boundary.

Exhibit 5-3. Flood Damage Exposure in East Troy: 2007

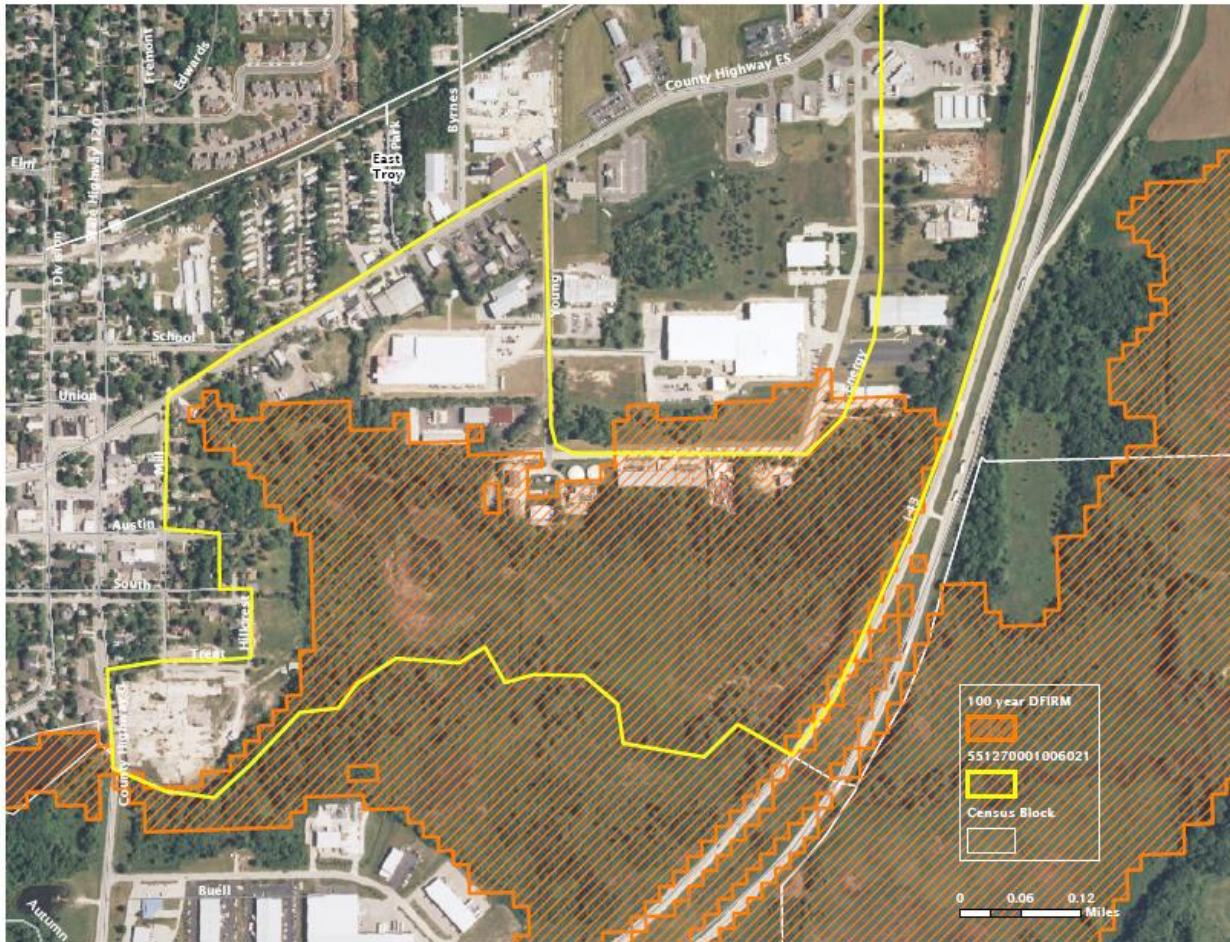
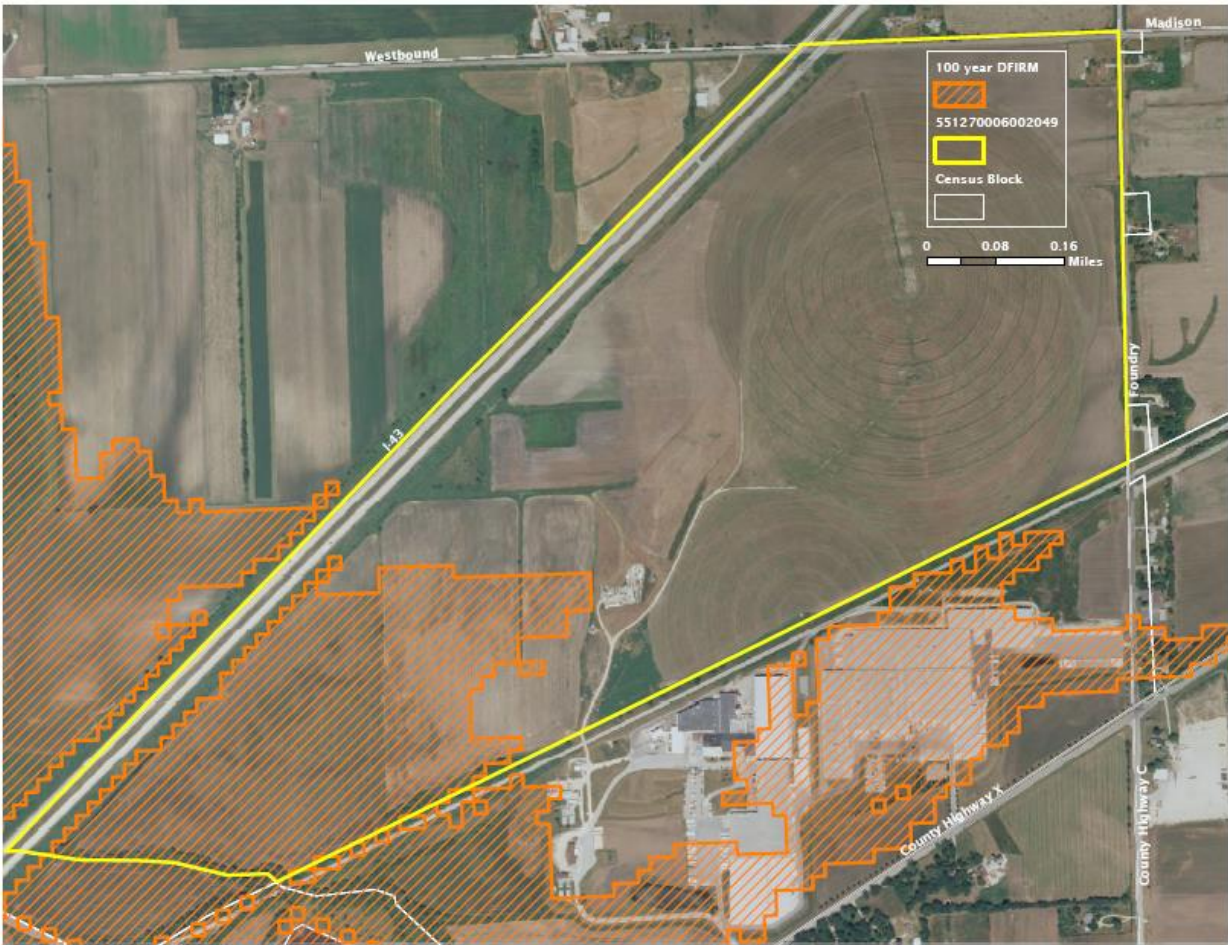


Exhibit 5-4 shows census blocks overlaid with the flood boundary and orthophoto of Darien. Census Block 551270006002049 has an estimated building loss of \$1 million with a combined replacement cost of \$6 million. HAZUS-MH estimates that one building is located in this census block. However, the orthophoto shows that the building is not within the floodplain boundary.

Exhibit 5-4. Flood Damage Exposure in Darien: 2007



Essential Facility Loss Analysis – An essential facility would encounter many of the same impacts as any other building within the flood boundary. These impacts include: structural failure, extensive water damage to the facility, and loss of facility functionality (i.e. a damaged police station will no longer be able to serve the community).

The HAZUS-MH analysis identified that no essential facilities are subject to flooding. A list of the essential facilities in the county is included in Table 5-12.

Table 5-12. Essential Facility Loss for a 100-Year Flood: 2007

Class	Building Count	At Least Moderate Damage	At Least Substantial Damage	Loss of Use
Care Facilities	10	0	0	0
Fire Stations	0	0	0	0
Police Stations	17	0	0	0
Schools	25	0	0	0
Emergency Operation Center	58	0	0	0
Total	110	0	0	0

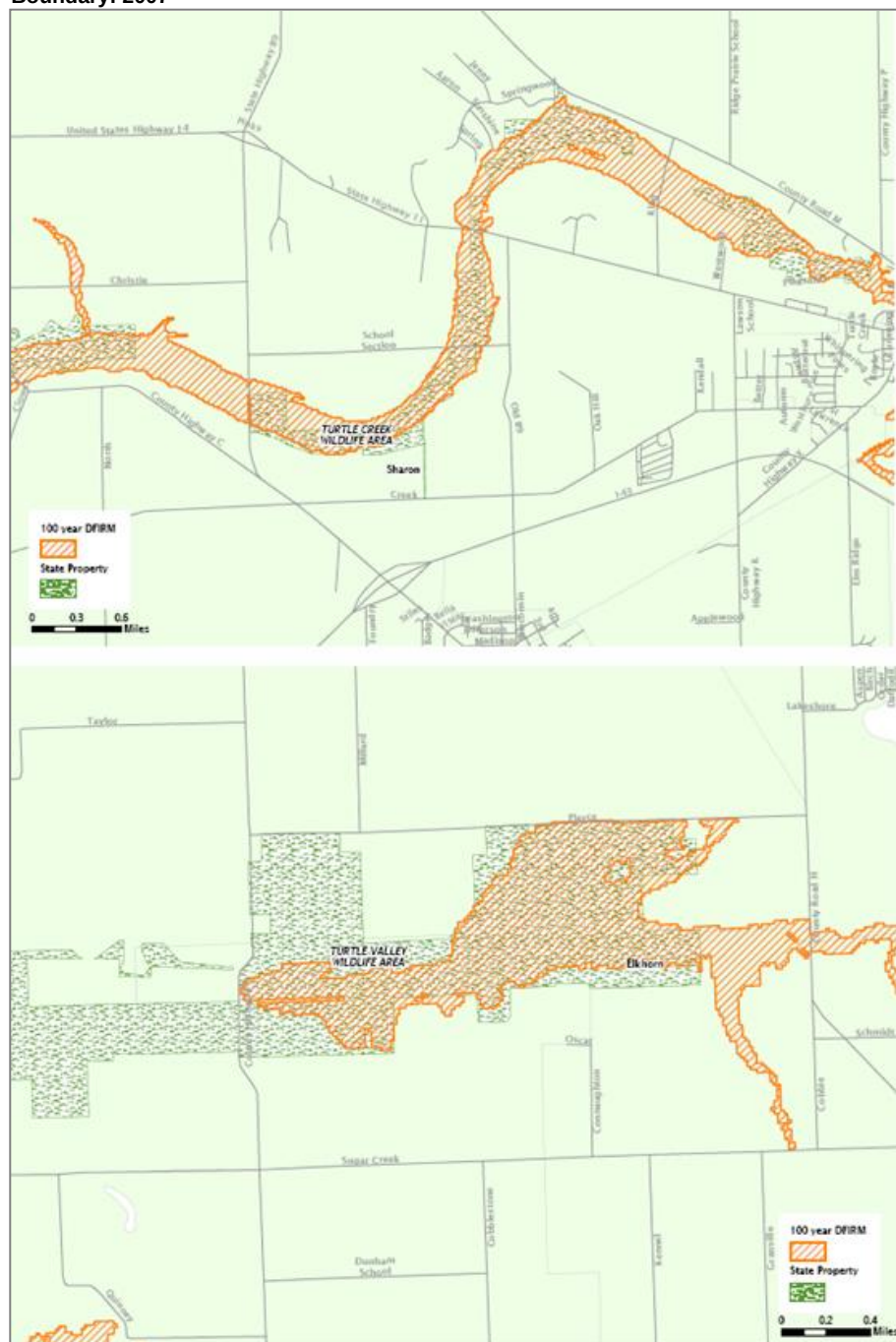
Shelter Requirement Analysis - HAZUS-MH estimates the number of households that are expected to be displaced from their homes due to the flood and the associated potential evacuation. HAZUS-MH also estimates those displaced people that will require accommodations in temporary public shelters. The model estimates 942 households will be displaced due to the flood. Displacement includes households evacuated from within or very near to the inundated area. Of these 1,053 people (out of a total population of 93,759) will seek temporary shelter in public shelters.

State Property Loss Analysis - The flood boundaries were overlaid with the State of Wisconsin property boundaries as provided by the Department of Natural Resources. Table 5-13 provides a list of state properties impacted by the flood boundary. Exhibit 5-5 shows two examples of the inundated areas.

Table 5-13. State Property Flood Inundation: 2007

State Property	Percent Inundated	Acres
Scattered Wildlife	6%	623
Turtle Creek Wildlife Area	56%	583
Turtle Valley Wildlife Area	30%	576
Extensive Wildlife Habitat	2%	250
Stream Bank Protection Fee Program	4%	227
Kettle Moraine State Forest-Southern Unit	1%	209
Statewide Habitat Areas	3%	205
Honey Creek Wildlife Area	11%	146
Lulu Lake Natural Area	8%	129
Ice Age Trail	1%	74
White River State Trail	8%	13
Rem-Delavan Lake	87%	9
Big Foot Beach State Park	1%	1

Exhibit 5-5. Select State of Wisconsin Properties Boundary with 100-Year Flood Boundary: 2007



VULNERABILITY ASSESSMENT – 2008

Effects on Facilities – The consultant team identified 345 buildings within the 100-year floodplain in 2008 (Table 5-14). Of all of the municipalities in the county, the towns of Bloomfield and Lyons had the highest number of buildings in the 100-year floodplain. The towns of Richmond and Walworth and the villages of Sharon and Walworth do not have any buildings within the 100-year floodplain. In addition, those portions of the village of Mukwonago and the city of Burlington within Walworth County do not have any buildings within the 100-year

floodplain. In terms of damage from a 100-year flood, the town of Darien is expected to experience the most, followed by town of Delavan. With the exception of wastewater treatment facilities and bridges, there are no critical facilities in the 100-year floodplain.

Table 5-14. Buildings in 100-Year Floodplain and Estimated Damage: 2008

Jurisdiction	Number of Buildings by Percent Damaged			Total Buildings	Market	100-Year
	<10%	10-20%	>20%		Value of	Flood
					Structures	Damage
Town						
Bloomfield	0	56	7	63	7,924,900	1,541,975
Darien	0	7	1	8	27,377,300	7,236,311
Delavan	0	37	16	53	10,174,900	2,285,360
East Troy	0	4	2	6	1,097,500	233,723
Geneva	0	18	0	18	3,890,600	716,660
Lafayette	0	10	0	10	5,994,000	1,181,265
La Grange	0	35	7	42	10,126,600	2,058,278
Linn	0	5	2	7	8,246,700	2,303,990
Lyons	0	50	13	63	6,488,200	1,615,059
Richmond	0	0	0	0	0	0
Sharon	0	5	0	5	631,300	116,225
Spring Prairie	0	8	0	8	811,800	148,630
Sugar Creek	0	4	1	5	613,400	116,538
Troy	0	2	0	2	265,900	53,150
Walworth	0	0	0	0	0	0
Whitewater	0	1	0	1	258,600	41,280
Village						
Darien	0	2	0	2	132,000	26,400
Bloomfield	[3]	[3]	[3]	[3]	[3]	[3]
East Troy	0	4	0	4	558,100	96,505
Fontana-on-Geneva Lake	0	13	1	14	2,764,900	551,855
Genoa City [1]	-	-	-	-	-	-
Mukwonago [1,2]	0	0	0	0	0	0
Sharon [2]	0	0	0	0	0	0
Walworth [2]	0	0	0	0	0	0
Williams Bay	-	-	-	-	-	-
City						
Burlington [1,2]	0	0	0	0	0	0
Delavan	0	1	1	2	261,100	42,661
Elkhorn	0	1	0	1	163,600	24,540
Lake Geneva	0	6	1	7	4,229,400	847,516
Whitewater [1]	0	24	0	24	2,511,800	445,485
Walworth County	0	32	2	34	\$7,165,900	\$21,683,406

Source: Civi Tek Consulting and Planning and Design Institute (PDI)

Notes: 1. Municipality located in Walworth County and another county; data just for Walworth County

2. Municipality does not contain any special flood hazard areas

3. The village incorporated on December 20, 2011, after this analysis was conducted

Effects on Population Groups – There are no population groups that are especially vulnerable to flooding except to the extent older homes, which were built prior to floodplain regulations, are occupied by lower income residents.

Effects on Economic Sectors – While flooding can impact a number of economic sectors, the agricultural sector is the most vulnerable. Aside from damaging farm buildings, flooding can destroy crops and reduce crop yields for surviving crops. In addition, harvesting crops on wet soils causes soil compaction that reduces crop yields in subsequent years. Heavy rains, which are often associated with flooding, cause a considerable amount of soil erosion on unprotected soils.

Damages sustained by businesses in the county are primarily a direct reflection of the agricultural production losses. The effects of the agricultural base extend throughout the county. Farming supports a variety of farm- (e.g., implement dealers, feed stores, granaries) and non-farm related (e.g., grocery stores, hardware stores) businesses.

Other Effects – During periods of flooding, no-wake boating restrictions are imposed which limit recreational uses, but are needed to protect shorelines from erosion. Also, as previously mentioned, road closures do occur, and in some cases cause a significant impediment to the flow of traffic within and through the county.

Effects on New Development – All new development in Walworth County, except in the villages of Genoa City and Williams Bay, is subject to local floodplain regulations. Therefore, all new development in the regulated floodplain will meet or exceed adopted development standards, which are designed to afford a reasonable level of protection from flood waters. In addition, communities have the opportunity through the subdivision review process to ensure that new projects are not susceptible to flooding that may result from the ponding of storm water.

ESTIMATED DAMAGE

Using the methodology described in Appendix H, it is estimated that if 100-year flood levels occurred countywide during the same time period, flood damage to buildings could potentially exceed \$21.6 million. It should be noted however, that flood magnitudes are generally not uniform across different watersheds and that it would be a rare occurrence for all water bodies in the county to experience a 100-year flood from the same event.

7. ICE SHOVES

PROFILE

An ice shove, also referred to as an ice flow, is a large accumulation of broken ice blocks and sheets which have been piled up by the wind along the shoreline of a lake. Ice shoves are characteristically found on large lakes in the spring during and immediately after ice breakup. The size of the ice shove is related to the amount of ice on the lake when breakup occurs and the strength and duration of the winds at breakup.

HISTORY OF PAST OCCURRENCES

While not common, ice shoves have occurred on Geneva Lake, which is the largest lake in the county. The only other lakes in the county which are large enough to experience ice shoves are Delavan Lake and Como Lake. Given the lack of significant damage from ice shoves, there is no written documentation regarding when they have occurred in the past or the amount of actual damage.

VULNERABILITY ASSESSMENT

When ice shoves do form, they rarely cause measurable damage given the size of the county's largest lakes. Although ice shoves occur on a fairly frequent basis, most do not cause damage to man-made structures such as buildings, piers, boat landings, and roads. On a few occasions though, ice shoves have become rather large and damaged man-made structures. Damage estimates are not available for ice shoves.

Effects on Facilities – Ice shoves most directly affect buildings and structures near the lakeshore. Ice may pile on top of a road if not removed as it moves on shore.

Effects on Population Groups – Ice shoves do not negatively affect any population group in particular.

Effects on Economic Sectors – Ice shoves do not negatively affect any economic sector in particular.

Effects on New Development – Current land use regulations help to keep new principal buildings a safe distance away from lake shorelines. Some water related accessory structures, such as boat houses, can however be built next to the shore and would be susceptible to ice shoves.

ESTIMATED DAMAGE

It is estimated that an ice shove event would cause damage to structures in the range of \$500 to \$5,000. This estimate assumes damage to 10 lakeside structures such as boathouses, piers, and other similar structures.

8. DENSE FOG

PROFILE

Dense fog is a visible concentration of small water droplets suspended in the air at the earth's surface that obscures visibility to less than one-quarter mile. It forms when air temperature falls to its dew point, which is the temperature at which air is holding as much moisture as it can. When air reaches its dew point, it condenses into very small water droplets.

HISTORY OF PAST OCCURRENCES

Dense fog can form throughout the year, but is most common from September through April. As listed in Appendix G, there have been 73 reported occurrences of dense fog in Walworth County since 1950.

VULNERABILITY ASSESSMENT

Effects on Facilities – Dense fog does not damage or impair the operation of facilities.

Effects on Population Groups – Dense fog does not negatively affect any population group.

Effects on Economic Sectors – Dense fog impairs visibility and can hamper ground and air transportation. When visibility is decreased, the potential for motor vehicle crashes increase as does the possibility of an airplane accident on landing or take off.

Effects on New Development – Dense fog does not affect buildings, whether current or future.

ESTIMATED DAMAGE

Based on historical data, dense fog events do no cause or result in property damage.

9. TORNADO

PROFILE

A tornado is a violently rotating column of air extending from the ground to the base of a convective cloud. The tornado may or may not have a visible condensation funnel (commonly referred to as a "funnel cloud"), which may or may not extend from the cloud base all the way to the ground. In the absence of a visible condensation funnel, a severe weather spotter can determine they are looking at a tornado if they observe cloud-base rotation superimposed over rotating dirt and debris at ground level. Wind speeds in a tornado typically range from 80 mph to 150 mph, but on occasions reach speeds in excess of 200 mph. There have been documented tornado winds exceeding 300 mph outside of Wisconsin. The majority of damage resulting from a tornado occurs within one-eighth mile of the tornado's path, which characteristically does not exceed 16 miles. In fact, the average path length of tornadoes in Wisconsin for the period of 1950-2005 was 9.8 miles with a duration of about 5.5 minutes. Tornadoes with track lengths greater than 150 miles have been reported in Wisconsin, although they are quite rare.

Tornadoes are visible because low atmospheric pressure in the vortex leads to cooling of the air by expansion with condensation and formation of water droplets. They are also visible as a result of the airborne debris and dust associated with the vortex. The destructive power of the tornado lies primarily in its high horizontal winds, a built-in upward-lifting force, and airborne debris impacting structures (collectively resulting in about 95 percent of the damage). To a much lesser degree, air pressure differences associated with a tornado result in additional damage. Years ago, it was assumed that air pressure differences accounted for a large portion of the damage, however, it is now realized that most buildings have enough air leakage or infiltration so that most of the air pressure differences between the inside and outside of a structure are minimized as the tornado approaches. Since tornadoes are usually associated with organized storm systems that consist of several thunderstorm cells of varying intensity, large hail, torrential rain, and intense lightning usually accompany the storm that spins up a tornado.

Although a tornado can form at any time during the year, the peak tornado season is May through July. They can also occur at any time of the day. The

peak hour for tornado initiation is between 6 and 7 p.m. and the peak hours of occurrence are between 3:00 and 9 p.m.

Prior to 2007, the Fujita Tornado Scale was used to estimate the wind speed of a tornado based on damage to structures (Table 5-15). Though the Fujita Scale has 13 ratings (F0-F12), tornadoes never exceed an F5 (261 to 318 MPH). Beginning in 2007, tornadoes are rated using the Enhanced Fujita Tornado Scale, which is essentially the same as the former scale except for the wind speed (Table 5-16).

Table 5-15. Fujita Tornado Scale

Fujita		
Rating	Wind Speed	Characteristic Damage
F0	40 to 72 mph	Some damage to chimneys, TV antennas, roof shingles, trees, and windows
F1	73 to 112 mph	Automobiles overturned, carports destroyed, and trees uprooted
F2	113 to 157 mph	Roofs blown off homes, sheds and outbuildings demolished, mobile homes overturned
F3	158 to 207 mph	Exterior walls and roofs blown off homes; metal buildings collapsed or are severely damaged; forests and farmland flattened
F4	208 to 260 mph	Few walls, if any, standing in well-built homes; large steel and concrete missiles thrown far distances
F5	261 to 318 mph	Homes leveled with all debris removed; schools, motels, and other larger structures have considerable damage with exterior walls and roofs gone; top stories demolished

Table 5-16. Enhanced Fujita Tornado Scale

Fujita		
Rating	Wind Speed	Characteristic Damage
EF0	65 to 86 mph	Some damage to chimneys, TV antennas, roof shingles, trees, and windows
EF1	86 to 110 mph	Automobiles overturned, carports destroyed, and trees uprooted
EF2	111 to 135 mph	Roofs blown off homes, sheds and outbuildings demolished, mobile homes overturned
EF3	136 to 165 mph	Exterior walls and roofs blown off homes; metal buildings collapsed or are severely damaged; forests and farmland flattened
EF4	166 to 200 mph	Few walls, if any, standing in well-built homes; large steel and concrete missiles thrown far distances
EF5	>200 mph	Homes leveled with all debris removed; schools, motels, and other larger structures have considerable damage with exterior walls and roofs gone; top stories demolished

HISTORY OF PAST OCCURRENCES

Wisconsin lies along the northern edge of the nation's tornado belt that extends northeastward from Oklahoma into Iowa. Winter, spring, and fall tornadoes are more likely to occur in southern Wisconsin than in northern counties. Yet, tornadoes have occurred in Wisconsin during every month except February.

Wisconsin's tornado season runs from the beginning of April through September. The most severe tornadoes typically occur during April, May, and

June. Many tornadoes strike in late afternoon or early evening. However, tornadoes have occurred at other times. Personal property damage, deaths, and injuries have and will continue to occur in Wisconsin. On average, one person in Wisconsin dies from tornado-related injuries each year and an additional 24 are injured.

Since 1950, there have been 28 verified tornadoes in Walworth County (Table 5-17 and Appendix G). The vast majority of them were F0 or F1 (Table 5-18). Prior to 1982 when the National Weather Service officially began classifying tornadoes, ratings are at best broad estimates, with an accuracy of plus or minus 1.

The most recent tornado in Walworth county occurred in 2018 and 2015.

VULNERABILITY ASSESSMENT

Effects on Facilities – Because tornadoes apparently occur randomly across the landscape, all areas of the county are equally as likely to experience a tornado. Therefore, all of the critical facilities which have been identified in this plan are at risk.

Effects on Population Groups – Even though all areas of the county are equally likely to experience a tornado, those living in mobile homes or staying in a campground are more vulnerable than those people living in a residence with a basement. In 2008, there were 10 mobile home parks and 12 campgrounds in Walworth County. None of these had a storm shelter where people could go during a wind-related storm event.

Effects on Economic Sectors – While individual businesses may be damaged, the overall economy generally experiences short-term effects of a tornado, if at all.

Effects on New Development – Because a tornado can occur anywhere in the county, new development will not be any more or less affected than current development.

ESTIMATED DAMAGE

Based on historical occurrences and documented damage estimates, a strong tornado (EF2 or EF3) would be expected to cause about \$375,000 in damage to buildings and infrastructure. However, the range is quite wide (0 to \$3 million) depending on where the tornado occurs and its magnitude (Table 5-19).

Table 5-17. Documented Tornadoes; Walworth County: 1950 through May 2019

Year	Month	Number
1955	April	1
1957	April	1
1959	June	1
1961	August	1
1965	April	2
1966	March	1
1967	June	1
1968	May	1
1970	May	1
1972	July	1
1972	September	1
1978	June	1
1978	August	1
1980	June	1
1988	July	1
1990	June	1
1991	July	1
1992	September	1
1993	June	1
1993	July	1
1997	July	1
2004	June	1
2008	January	1
2010	November	1

Source: National Weather Service

**Table 5-18. Rated Tornadoes;
Walworth County: 1950
through May 2019**

Fujita Rating [1]	Number of Occurrences	Percent of Total
F0	4	18
F1	12	55
F2	6	27
F3	0	0
F4	0	0
F5	0	0
Total	22	100

Source: National Weather Service

Notes:

1. Refer to Table 5-15 and 5-16 for a description of the Fujita ratings
2. During this period, 3 tornadoes were not rated

**Table 5-19. Estimated Tornado
Damage: Walworth
County**

Enhanced Fujita	
Rating [1]	Damage Estimate
EF0	0 to \$10,000
EF1	\$25,000 to \$200,000
EF2	\$25,000 to \$1,500,000
EF3	\$250,000 to \$2,000,000
EF4	\$500,000 to \$2,500,000
EF5	\$750,000 to \$3,000,000

Notes:

1. Refer to Table 5-16 for a description of the Enhanced Fujita Scale

10. HAILSTORMS

PROFILE

A hailstorm is a weather event where water particles in the upper atmosphere form into round or irregular masses of ice that fall to earth. Hail stones form when sub-freezing temperatures in the upper atmosphere cause water in thunderstorm clouds to accumulate in layers around an icy core. When strong underlying winds no longer can support their weight, the hailstones fall to Earth. The size of hail typically ranges from one-quarter inch in diameter up to three inches.

Hail tends to fall in swaths that may be 20-115 miles long and 5-30 miles wide. The swath is not normally an even bombardment of hail, but generally consists of a series of hail strikes that are produced by individual thunderstorm clouds traversing the same general area. Hail strikes are typically one-half mile wide and up to five miles long. They may partially overlap, but often leave completely undamaged gaps between them. Hailstorms tend to occur in conjunction with severe thunderstorms.

HISTORY OF PAST OCCURRENCES

Between January 1, 1950 and May 2021, there have been 110 documented hailstorm events in Walworth County (Table 5-5).

VULNERABILITY ASSESSMENT

Effects on Facilities – The threat of hail damage increases as the size of the hailstone increases. Hail can break windows, damage roofs and siding, and dent motor vehicles. The threshold value of hail size in which damage can occur is $\frac{3}{4}$ inch (NWS issues a Severe Thunderstorm Warning for these events), however, hailstones usually need to grow to 1.5 to 1.75 inch in diameter before they result in a significant amount of damage.

Effects on Population Groups – All population segments are equally susceptible to hail storms. Hail storms while resulting in property and crop damage, rarely causes serious injury or loss of life.

Effects on Economic Sectors – Of all the economic sectors, agriculture is the most susceptible to hail damage. When hailstones approach golf ball size, crops are damaged and are not able to recover, which may result in a total loss.

Effects on New Development – Because hail storms can occur anywhere in the county, new development will not be any more or less affected than current development.

ESTIMATED DAMAGE

Based on historical data, hailstorms, while quite numerous, normally do not cause widespread or significant damage. There is however, one exceptional event. On April 13, 2006, a group of three thunderstorms moved west to east through the counties of Iowa, Dane, Jefferson, Waukesha, Milwaukee, and also affected the southern parts of the counties of Columbia, Dodge, Washington, and Ozaukee. Collectively, property damage reached at least \$420 million. Obviously, damage can reach into the tens of millions in a single county, but this would be a rare occurrence for any single county. This single event accounts for nearly 92 percent of all the documented damage that occurred between 1950 and 2006.

For the purposes of this plan, it is estimated that a hailstorm would cause about \$5,000 to \$10,000 in property damage per localized event.

11. THUNDERSTORMS

PROFILE

Thunderstorms are severe and violent forms of convection produced when warm moist air is overlaid by dry cool air. As the warm air rises, thunderheads (cumulonimbus clouds) form and cause the strong winds, lightning, hail, and rain characteristically associated with these storms. Thunderheads may be a towering mass 6 miles or more across and 40,000 to 50,000 feet high. As much as 1.5 million tons of water may be held in a thunderhead.

A storm event arising for a single thunderhead typically lasts less than 30 minutes in a given location. However, strong frontal systems may spawn more than one squall line composed of many individual thunderheads.

As defined by the National Weather Service, a severe thunderstorm is a thunderstorm event that produces one or more of the following: downbursts with winds of 58 mile per hour or greater, hail three-quarters of an inch in diameter, or a tornado.

HISTORY OF PAST OCCURRENCES

Out of all the weather-related events in Walworth County, powerful thunderstorms are the most common. They account for 37 percent of the weather-related events documented from 1950 through May 2021. On average, county residents can expect slightly more than four significant thunderstorm events each year.

Although thunderstorms can occur throughout the year, they are most common from May through September. Typically, they occur after 12:00 p.m. until 10:00 p.m.

One of the most devastating thunderstorms to hit Walworth County occurred July 21, 1998 when scattered thunderstorms merged over the county. Hurricane-force winds were generated over the north side of Elkhorn and the resultant wind damage strongly suggests that winds gusts peaked in the 100 to 110 mph range. Elkhorn city officials declared a state of emergency due to the damage to buildings and downed trees and power lines. Several Elkhorn downtown office buildings suffered some minor damage, while six buildings on the north side along STH 67 had considerable damage. Twelve people were injured and 14 vehicles sustained damage. The storm traveled through rural farmland east to the Walworth/Racine county line, destroying three farm buildings in the process. Altogether, about 27,000 customers in Walworth County lost electric power. This event resulted in property damage totaling \$1.9 million and crop losses of \$105,000.

VULNERABILITY ASSESSMENT

Effects on Facilities – Aside from hail, downburst straight line winds from a thunderstorm can damage property and to a less extent crops. Overhead utility lines are quite susceptible to downed trees and tree branches. Entire neighborhoods and even larger areas can lose power because of a thunderstorm. All areas of the county are equally susceptible to thunderstorms, meaning that all critical facilities are at risk.

Effects on Population Groups – Wind associated with severe thunderstorms can cause injury or loss of life. With the exception of those living in mobile home parks or staying in campgrounds, no population group is uniquely susceptible to a thunderstorm event. Those in mobile homes and campgrounds are at risk from falling trees and branches, and damage to their residence or camper.

Effects on Economic Sectors – Severe thunderstorms do not affect any economic sector disproportionately more than others.

Effects on New Development – Because a thunderstorm can occur anywhere in the county, new development will not be any more or less affected than current development.

ESTIMATED DAMAGE

Based on historical data, a severe thunderstorm is expected to cause less than \$20,000 in property damage and less than \$2,000 in crop damage.

12. WINTER STORMS

PROFILE

Winter storms include a wide range of weather-related events including snowstorms, blizzards, freezing rain, sleet, and ice storms. Typical snow events produce totals of between one and three inches. On a statewide basis, heavy snowfalls happen on average five times per winter. Total snow accumulations in southern Wisconsin average about 40-50 inches. While blizzard conditions can occur in southern Wisconsin, it is rare. Both ice and sleet storms can occur at any time from October into April. They are more common in southern Wisconsin

than in the northern part of the state. Statewide, there are 3 to 5 freezing rain events each year.

HISTORY OF PAST OCCURRENCES

For the period of 1950 through May 2021, there have been 119 winter storm events in Walworth County consisting of blizzard conditions, heavy snow, ice, or sleet.

VULNERABILITY ASSESSMENT

Effects on Facilities – Heavy snow can cause the structural collapse of buildings with flat roofs. In recent memory there have been a few winter seasons where snow events taxed the ability of local governments to pay for the removal of snow from roads and keep them clear of snow.

Effects on Population Groups – Winter storms affect all population groups equally. People who commute a comparatively long distance are disproportionately affected.

Effects on Economic Sectors – A prolonged winter storm event with a large accumulation of snow can have a short term effect on the local economy in terms of lost productivity. Transportation-related businesses are often negatively affected when winter weather hits.

Effects on New Development – Because winter storms generally affect the county as a whole, new development will not be any more or less affected than current development.

ESTIMATED DAMAGE

The cost of snow removal is incorporated into local government budgets so there is no direct financial impact arising from a winter storm unless the community experiences a prolonged winter season with a high number of snowfall events, such as the 2007-2008 winter when 75 to 122 inches of snow fell across southern Wisconsin.

13. EXTREME HEAT

PROFILE

Periods of excessive heat, often referred to as heat waves, are quite common in Wisconsin during the summer months. When high temperatures do occur, they cover large areas of the country. Summertime heat and exposure to solar radiation can cause a number of heat disorders ranging from sunburn to heat stroke as described in Exhibit 5-6.

If left untreated, heat stroke can be deadly. From 1986 through 2006, about 143 people died each year from excessive heat in the United States. The elderly, small children, chronic invalids, people on certain medications or drugs, and people with weight and alcohol problems are particularly susceptible to heat disorders. The human body dissipates heat by varying the rate and depth of blood circulation, by perspiring, and as a last resort, by panting. Perspiration is an effective way of cooling the body's surface, but as the relative humidity increases, the positive effects of perspiration decline.

Terms Related to Winter Storms

Heavy snowfall - The accumulation of six or more inches of snow in a 12-hour period or eight or more inches in a 24-hour period.

Blizzard - The occurrence of sustained wind speeds in excess of 35 miles per hour accompanied by heavy snowfall or large amounts of blowing or drifting snow.

Ice storm - An occurrence where rain falls from warmer upper layers of the atmosphere to the colder ground, freezing upon contact with the ground and exposed objects near the ground forming an accumulation of at least 1/4" in 12 hours or less.

Freezing drizzle / freezing rain - The effect of drizzle or rain freezing upon impact on objects that have a temperature of 32 degrees Fahrenheit or below.

Sleet - Solid grains or pellets of ice formed by the freezing of raindrops or the refreezing of largely melted snowflakes. Sleet does not cling to surfaces.

Exhibit 5-6. Heat Disorders and Symptoms

Heat Disorder	Symptoms
Sunburn	Redness and pain; in severe cases swelling of skin, blisters, fever, headaches
Heat Cramps	Painful spasms usually in muscles of legs and abdomen possible; heavy sweating
Heat Exhaustion	Heavy sweating, weakness, skin cold, pale and clammy; pulse thready; normal temperature possible; fainting and vomiting
Heat Stroke	High body temperature (106 or higher); hot dry skin; rapid and strong pulse; possible unconsciousness

Source: National Weather Service, National Oceanic and Atmospheric Administration

Out of all of the natural hazards in Wisconsin, excessive heat is the leading cause of fatalities.

The National Weather Service devised the Heat Index² as a way to measure the combined effects of temperature and relative humidity. The Heat Index chart (Exhibit 5-7) also shows when certain physiological responses are commonly seen with prolonged exposure and/or physical activity. As the relative humidity increases, even modest temperatures can cause heat stroke and other less serious heat disorders.

Exhibit 5-7. Heat Index (Apparent Temperature)

Air Temp. °F	Relative Humidity (%)												
	40	45	50	55	60	65	70	75	80	85	90	95	100
110	136												
108	130	137											
106	124	130	137										
104	119	124	131	137									
102	114	119	124	130	137								
100	109	114	118	124	129	136							
98	105	109	113	117	123	128	134						
96	101	104	108	112	116	121	126	132					
94	97	100	103	106	110	114	119	124	129	135			
92	94	96	99	101	105	108	112	116	121	126	131		
90	91	93	95	97	100	103	106	109	113	117	122	127	132
88	88	89	91	93	95	98	100	103	106	110	113	117	121
86	85	87	88	89	91	93	95	97	100	102	105	108	112
84	83	84	85	86	88	89	90	92	94	96	98	100	103
82	81	82	83	84	84	85	86	88	89	90	91	93	95
80	80	80	81	81	82	82	83	84	84	85	86	86	87

Source: National Weather Service, National Oceanic and Atmospheric Administration

With Prolonged Exposure and/or Physical Activity

	Extreme Danger – Heat stroke or sunstroke highly likely
	Danger – Sunstroke, muscle cramps, and/or heat exhaustion likely
	Extreme Caution – Sunstroke, muscle cramps, and/or heat exhaustion likely
	Caution – Fatigue possible

HISTORY OF PAST OCCURRENCES

From 1986 to 2006, there were 10 years in which at least one or more persons in Wisconsin died from the direct or indirect effects of excessive heat (Table 5-20).

VULNERABILITY ASSESSMENT

In those 10 years, a total of 115 people died. However, none of the deaths occurred in Walworth County. It is believed that some county residents received medical treatment for heat-related symptoms.

² The Heat Index is sometimes referred to as the apparent temperature.

During that 20-year period, 1995 was the deadliest year when a total of 82 deaths were reported. Two heat waves gripped much of the state. The first occurred in mid-June and the second in mid-July. During the second heat wave, the temperature rose to between 100°F and 108°F, with heat indices of 120°F to 130°F.

According to the National Weather Service, the mortality rate from excessive heat in Wisconsin is the highest of all natural disasters – more than four times greater than the second highest cause of death, tornadoes.

Intensely urbanized areas feel the effects of heat waves more than rural areas in that the temperature in urban areas is often elevated because radiant energy is stored in pavement and the exterior building surfaces and is released slowly over a period of time. Even during a heat wave, nighttime temperatures typically drop, but less so in urban areas because these heat reservoirs dissipate the radiant heat collected during the day time. This phenomenon is often referred to as the heat island effect.

Not only are urban areas heat islands, pollutants often build up in the lower atmosphere during periods of excessive heat, causing respiratory problems, especially for the young, the elderly, and those with respiratory ailments such as asthma.

Although the more urban areas of the county experience the heat island effect, the change in the ambient temperature is modest. This is because the urban areas of the county are relatively small and street trees help to deflect solar radiation back into the atmosphere.

Effects on Facilities – Excessive heat does not directly impact critical facilities.

Effects on Population Groups – The elderly are disproportionately affected by heat. For example, during the heat waves of 1995, three-quarters of the fatalities were 60 years of age or older (Table 5-21).

Effects on Economic Sectors – Excessive heat can accompany drought causing a loss of crops. Additionally, some businesses may close or reduce production to minimize heat effects on employees.

Effects on New Development – Most new homes that are being constructed in the area have central air conditioning. As such, those people living in new dwelling units will be less affected by extreme heat than those living in the existing housing stock, some of which do not have air conditioning.

ESTIMATED DAMAGE

Aside from health consequences for county residents, excessive heat does not cause a definable economic loss.

Table 5-20. Heat-Related Fatalities; Wisconsin: 1986 - 2006

Year	Direct Deaths	Indirect Deaths
1986	1	0
1988	1	0
1993	2	0
1995	82	72
1997	1	0
1999	12	8
2001	10	5
2002	3	5
2003	0	4
2006	3	1
Total	115	95

Source: National Weather Service, Milwaukee - Sullivan Office

Table 5-21. Heat-Related Fatalities; United States: 1995

Age	Number	Percent
0 – 19	14	1.4
20 – 29	5	0.5
30 – 39	34	3.3
40 – 49	79	7.7
50 – 59	95	9.3
60 – 69	179	17.5
70 – 79	253	24.8
80 – 89	241	23.6
90 and older	61	6.0
Unknown age	60	6.0
Total	1,021	100

Source: National Weather Service

14. EXTREME COLD

PROFILE

Periods of extreme cold temperature are common during the winter months in Wisconsin, including Walworth County. While not commonly occurring, there have been instances where outdoor temperatures dropped to -15 degrees Fahrenheit.

HISTORY OF PAST OCCURRENCES

From 1950 through May 2021, the National Weather Service documented 22 periods of extreme cold, all of which occurring from December through mid-February.

The lowest recorded temperature (-29 degrees Fahrenheit) in Walworth County was recorded on February 9, 1933 at the Williams Bay weather station and February 1, 1918, at the Delavan weather station. Based on data collected at the Lake Geneva weather station (474457), there are on average 6.6 days in January with temperatures at or below zero degrees Fahrenheit (Table 5-22).

VULNERABILITY ASSESSMENT

Effects on Facilities – Excessive cold does not directly impact most critical facilities. There may be instances where an extended period of cold causes water pipes in buildings to freeze, and if not corrected, to burst. Underground water laterals often leak because of extreme cold temperatures as the surrounding soil materials expand and contract.

Effects on Population Groups – The elderly are disproportionately affected by cold temperatures. They are often times confined to their home during extended cold periods.

Effects on Economic Sectors – Excessively cold temperatures can accompany winter storm events; which compounds a generally difficult time. Because cold temperatures do not last for an extended period, the effects of excessively cold temperatures are short lived.

Effects on New Development – Periods of extreme cold will not disproportionately affect new development.

ESTIMATED DAMAGE

Aside from health consequences for county residents, excessively cold temperatures do not cause a definable economic loss.

15. DROUGHT

PROFILE

A drought is an extended period of time when rainfall is significantly below normal amounts. Unlike other natural disasters, it is not known until much later in time, when a drought begins. A drought could last for months, several years, and in extreme conditions, much longer. Droughts are typically accompanied by higher-than-normal temperatures and lower-than-normal relative humidity levels.

Table 5-22. Temperature Extremes; Lake Geneva Weather Station: 1971-2000

Month	Number of Days ≥90°F	Number of Days ≤0°F
January	0.0	6.6
February	0.0	3.8
March	0.0	0.2
April	0.0	0.0
May	0.9	0.0
June	4.4	0.0
July	7.4	0.0
August	4.3	0.0
September	1.3	0.0
October	0.0	0.0
November	0.0	0.1
December	0.0	2.9

Source:
http://mrcc.sws.uiuc.edu/climate_midwest/historical/temp/wi/474457_tsum.html

A drought could affect an entire region of a continent or a sub-region as small as several counties.

A number of methodologies have been developed to measure droughts from a purely meteorological standpoint. Droughts can also be defined based on the consequences which result. For the purposes of this plan, two types of drought are considered: agricultural and hydrologic. An agricultural drought causes a noticeable drop in crop yields and a hydrologic drought causes a drop in lake and stream levels and lowers the height of the ground water table.

Although these two types of droughts can occur at the same time, the negative effects of a drought are first seen on crop production. Hydrologic droughts characteristically lag behind an agricultural drought because it takes time for the lack of precipitation to lower surface and ground water levels. As a result, it is possible for an area to experience a hydrologic drought long after the end of an agricultural drought.

HISTORY OF PAST OCCURRENCES

Agricultural and hydrologic droughts occur in Wisconsin on a regular basis. Since the Dust Bowl, short-lived droughts have occurred on an interval of about one in every ten years. Long-term droughts are more infrequent. Since the Dust Bowl, there have been four significant droughts in the state: 1948-1950, 1955-1959, 1976-1977, and 1987-1988.

Exhibit 5-8 shows the statewide average annual precipitation between 1895 and 2006 and the lowest annual precipitation recorded in the state for the same period. Over this period, the average annual precipitation was 31.4 inches per year on a statewide basis. There were 56 years when precipitation was below the average and 7 years when precipitation was less than 25 inches. The lowest average annual precipitation occurred in 1976 with 20.9 inches of precipitation.

On a more localized level, there have been 88 years when an area of the state with the lowest precipitation level received less than 25 inches of precipitation. As shown in Table 5-23, the lowest statewide precipitation levels occurred in Walworth County or an adjoining county on four occasions.

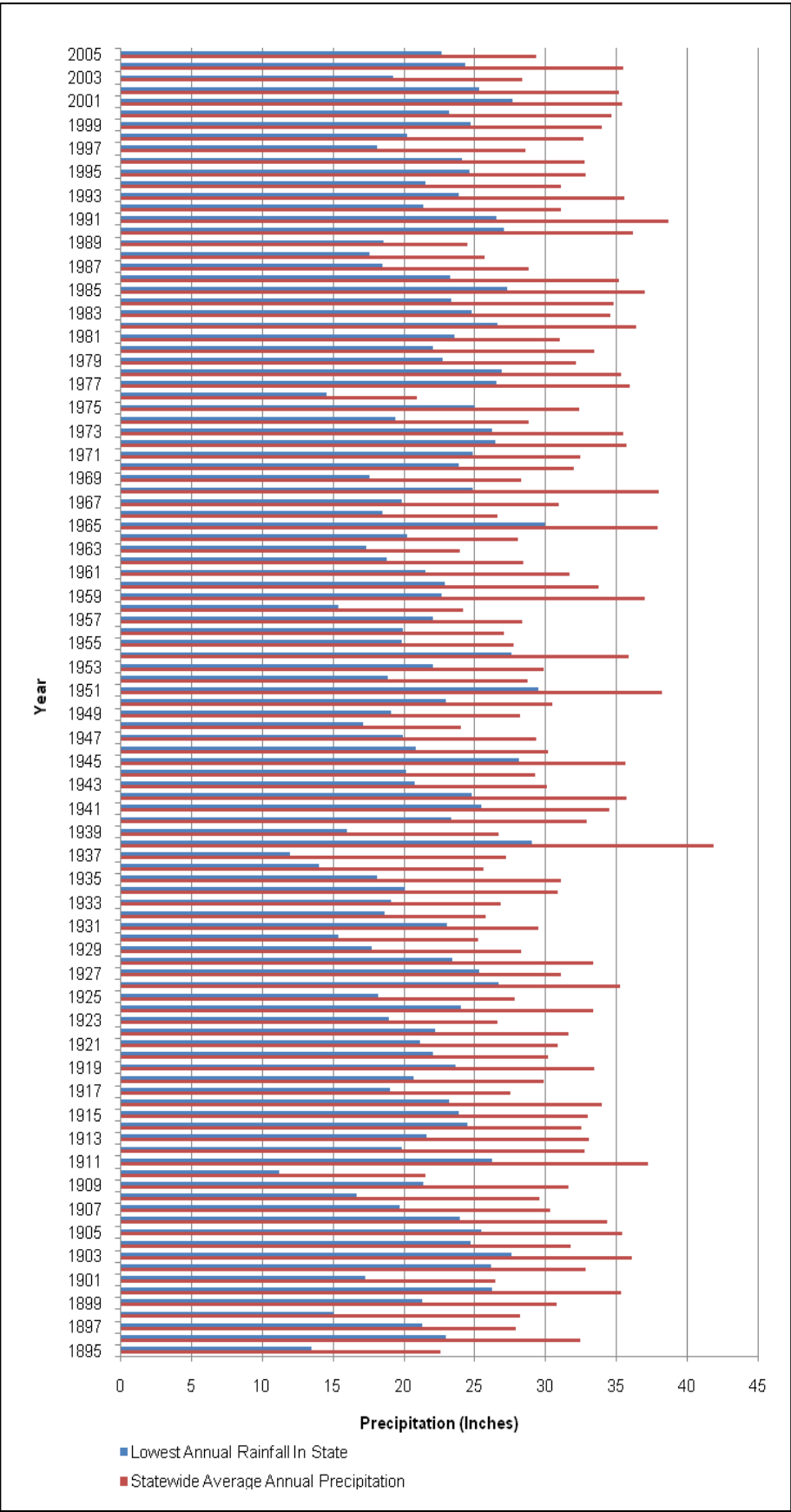
Table 5-23. Locations in and near Walworth County with the Lowest Annual Statewide Precipitation Levels: 1895-2006

Year	Lowest Recorded Precipitation Levels				
	Statewide Average (Inches)	Precipitation (Inches)	Difference (Inches)	General Location	County
2005	29.34	22.7	6.64	Racine	Racine County
1971	32.48	24.9	7.58	Racine	Racine County
1922	31.64	22.2	9.44	Williams Bay	Walworth County
1901	26.52	17.3	9.22	Waukesha	Waukesha County

Source: Wisconsin State Climatology Office

Note: The Wisconsin State Climatology Office did not have this dataset updated when accessed in 2013

Exhibit 5-8. Wisconsin Average Annual Precipitation: 1895-2006



Source: Wisconsin State Climatology Office Note: This office did have this dataset updated when accessed in 2012

VULNERABILITY ASSESSMENT

By most accounts, the 1987-1988 drought in Wisconsin was the most severe and is estimated to have a recurrence interval of about 75 years. All Wisconsin counties were eligible for drought assistance. Agricultural losses throughout the state totaled \$1.3 billion. More than half of the farms in the state suffered crop losses of 50 percent or more, with 14 percent experiencing a crop loss of 70 percent or more.

Effects on Facilities and Population Groups – Unlike many of the other natural disasters addressed in this plan, drought conditions do not cause physical harm to people or destroy buildings and other structures.

Effects on Economic Sectors -- The two main concerns with drought relate to economic losses to agricultural crops and livestock and effects on ground water supplies available to both private and public water wells.

According to the land use inventory conducted by the Southeastern Wisconsin Regional Planning Commission in 2000, nearly two-thirds of the county was in agriculture. A drought in the county would therefore affect a significant portion of the county's economic base. During extended droughts, municipalities often see increased water usage due primarily to increased use for lawns and gardens. It is important that municipal wells are properly sized for the number of residents they are intended to serve. At times, it may be necessary to impose water restrictions when there is concern that the available water supply may not be sufficient to meet basic needs.

Because municipal wells are generally concentrated in a relatively small geographic area, extended droughts can affect the level of the water table. With decreased rainfall, the water table will naturally drop. Most public water wells draw from the deep aquifers and typically are not negatively affected. However, those wells serving an individual household are comparatively shallow and are more susceptible to a dropping water table, especially when located near a municipal well.

Effects on New Development – Aside from the potential of limiting the use of potable water for certain uses during drought periods, new development will be no more susceptible to drought than exists now.

ESTIMATED DAMAGE

It is estimated that a drought over the course of a year would cause a loss in agricultural production in the range of \$25,000 to \$50,000. This estimate is based on an average loss of \$300 per acre over 83 to 166 acres.

16. WILDLAND FIRE

PROFILE

A wildland fire is an uncontrolled fire burning natural vegetation and potentially buildings and other structures. A wildland fire can occur in a large forested area, woodlot, grassland, roadside ditch, or marsh.

Wildland fires can be ignited by lightning, human carelessness, and arson. In Wisconsin, human carelessness is the leading ignition source.

HISTORY OF PAST OCCURRENCES

Because the majority of nonurban land in Walworth County is in some form of agriculture, there have been few instances of wildland fires. Those wildland fires that have started were small and contained comparatively quickly.

VULNERABILITY ASSESSMENT

Effects on Facilities – With the exception of some utility infrastructure, no critical facilities are vulnerable to a wildland fire.

Effects on Population Groups – Wildland fires do not negatively affect any one population group more than another.

Effects on Economic Sectors – Wildland fires do not negatively affect any of the economic sectors in Walworth County.

Effects on New Development – Most new dwelling units that will be constructed in the county will occur within subdivisions and as such will not, as a general rule, be exposed to the threat of wildland fire. A small percentage of new dwelling units will however occur on larger parcels in rural areas of the county.

ESTIMATED DAMAGE

It is estimated that direct costs for fighting a five-acre grass fire is in the range of \$1,000 to \$3,000. Costs related to a fire exceeding 25 acres would be in the range of \$10,000 to \$15,000.

17. SUMMARY OF RISK BY JURISDICTION

Table 5-24 presents a summary of risk for each jurisdiction in Walworth County.

Table 5-24. Summary of Risk by Jurisdiction: 2021

	Dam Failure	Flooding [3]	Dense Fog	Tornado	Hail- storm	Thunder- storm	Winter Storms	Temp. Extremes	Drought	Wildland Fire
Town										
Bloomfield	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Darien	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Delavan	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
East Troy	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Geneva	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Lafayette	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
La Grange	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Linn	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Lyons	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Richmond	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Sharon	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Spring Prairie	Medium	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Sugar Creek	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Troy	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Walworth	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Whitewater	Medium	High	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Village										
Bloomfield [2]	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Darien	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
East Troy	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Fontana-on-Geneva Lake	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Genoa City [1]	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Mukwonago [1,2]	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Sharon [2]										
Walworth [2]	Low	High	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Williams Bay	Low	High	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
City										
Burlington [1,2]	Low	High	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Delavan	Medium	High	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Elkhorn	Low	Medium	Low	Medium	Medium	Medium	Medium	Medium	Low	Low
Lake Geneva										
Whitewater [1]										
Walworth County										

Notes:

1. Municipality located in Walworth County and another county
2. The Village incorporated on December 20, 2011
3. See Section 6 of this chapter for a detailed loss estimates.

18. SUMMARY OF DAMAGE ESTIMATES

Table 5-25 lists damage estimates for the various natural hazards reviewed in this chapter.

Table 5-25. Damage Estimates for Natural Hazards; Walworth County: 2021

Natural Hazard	Damage Estimate
Dam Failure	Unknown
Flooding [1]	\$21.6 million (maximum)
Ice Shoves	\$500 to \$5,000
Dense Fog [2]	0
Tornado	\$375,000
Hail Storms [2]	\$5,000 to \$10,000
Thunderstorm [2]	\$20,000 property; \$2,000 crop
Winter Storms [2,3]	Minimal
Extreme Temperature – heat	Minimal
Extreme Temperature – cold	Minimal
Drought - short-lived	\$25,000 to \$50,000
Drought - long-lived	0 property; \$50,000 to \$100,000 crop
Wildland fire - less than 25 acres	\$1,000 to \$3,000
Wildland fire - 25 acres or more	\$10,000 to \$15,000

Notes:

1. Based on a 100-year flood
2. Estimates do not include damage to motor vehicle or other accident-related costs
3. Estimate does not include snow removal costs. These are included in local government budgets.

MITIGATION STRATEGY

1. CHAPTER OVERVIEW

This chapter is intended to identify common mitigation strategies for each of the natural hazards reviewed in this plan and potential funding sources for carrying out mitigation activities. The bulk of the chapter is devoted to listing goals, objectives, and policies along with activities that apply broadly to the county and special programs or projects or activities that apply specifically to a town, city, or village in the county.



2. TYPES OF POTENTIAL MITIGATION STRATEGIES

Mitigation strategies can be grouped into six broad categories:

- ◆ Prevention
- ◆ Property protection
- ◆ Public education and awareness
- ◆ Natural resource protection
- ◆ Emergency services
- ◆ Structural projects

Examples are listed below for each of the natural hazards addressed in this plan.

Chapter Contents

1. Chapter Overview
2. Types of Potential Mitigation Strategies
3. Existing Mitigation Strategies
4. Funding Sources
5. Summary of Staff Capabilities
6. Goals, Objectives, Policies, and Activities

Dam Failure

- ◆ Remove dams that don't serve a useful purpose
- ◆ Require the preparation of emergency action plans
- ◆ Ensure that emergency action plans are current
- ◆ Ensure that dam inspections are conducted as required by state law
- ◆ Include a dam failure in emergency planning exercises
- ◆ Minimize the level of development in a dam's hydraulic shadow in an effort to minimize damage resulting from a dam failure

Key Terms in this Chapter

Community Rating System (CRS) – A voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum National Flood Insurance Programs requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from qualified community actions.

Goal – A statement that describes a desired condition to be achieved sometime in the future. A goal is often broad in scope, not easily measurable, and long-term in nature.

Objective – A specific and usually measurable intermediate end that is achievable and make progress toward a goal.

National Flood Insurance Program – A Federal program created in 1968 under which flood-prone areas are identified and flood insurance is made available to the owners of the property in participating communities.

Policy – A predetermined course of action or specific rule that an organization adopts and uses in decision-making and which when applied will help to achieve one or more of its goals or objectives.

Repetitive loss community – A community with one or more repetitive loss properties.

Repetitive loss property (RLP) – For purposes of the Community Rating System, a property for which two or more National Flood Insurance Program losses of at least \$1,000 each have been paid within any 10-year rolling period since 1978.

Severe residential loss (SRL) property – A residential property (1) that has at least four NFIP claim payments over \$5,000 each, when at least two such claims have occurred within any ten-year period, and the cumulative amount of such claims payments exceeds \$20,000; or (2) or which at least two separate claims payments have been made with the cumulative amount of the building portion of such claims exceeding the value of the property, when two such claims have occurred within any 10-year period.

Safe room – An above ground room within a building (most often homes) that is specifically designed to withstand high winds and provides occupants a safe refuge from tornadoes, hurricanes, or other high-wind events.

Strategy – An action or a group of actions intended to achieve a goal or objective.

Flooding

- ◆ Continue to enforce floodplain regulation and strengthen requirements when appropriate
- ◆ Limit development in the floodplain through local floodplain regulations or zoning
- ◆ Provide dryland access through flood-prone areas
- ◆ Retrofit legal nonconforming buildings that do not meet floodplain regulations (e.g., elevating, floodproofing)
- ◆ Purchase repetitive loss properties and remove structures (i.e., demolition or relocation)
- ◆ Raise the surface of local roads above 50-year flood elevations and arterials above 100-year flood elevations
- ◆ Enlarge the cross-section of culverts and bridges when they do not adequately carry anticipated flood flows
- ◆ Prohibit basements in new subdivisions where flooding from stormwater could be problematic
- ◆ Clean drainageways to allow a free flow of water
- ◆ Minimize impervious surfaces in a watershed so that stormwater can soak into the ground rather than contributing to flood water
- ◆ Maintain appropriate water rescue equipment
- ◆ Develop and implement appropriate evacuation procedures in flood-prone area
- ◆ Install gaging stations to better understand surface water flow regimes
- ◆ Construct stormwater facilities (e.g., detention and retention basins) to help manage stormwater
- ◆ Take steps to upgrade the National Flood Insurance Program requirements

Ice Shoves

- ◆ Limit development along lakeshores prone to ice shoves

Dense Fog

- ◆ Identify those roadways where fog is localized and install appropriate signage
- ◆ Install automated visibility warning systems to detect reduced visibility conditions

Tornado

- ◆ Construct storm shelters in campgrounds and mobile home parks
- ◆ Bury electrical and telephone lines and other utility cables
- ◆ Continue to enforce building codes and strengthen requirements when appropriate
- ◆ Include safety strategies for severe weather events in driver education classes

Severe Storms/Hail

- ◆ Encourage property owners to use building products (e.g., roofing, siding) resistant to hail damage or wind damage and anchoring devices in new construction

Snow Storms

- ◆ Bury electrical and telephone lines and other utility cables
- ◆ Install temporary snow fences along road ways that have experienced blowing and drifting snow
- ◆ Continue to enforce building codes and strengthen requirements when appropriate

- ◆ State and local governments can produce and distribute information to motorists relating to severe winter weather hazards
- ◆ Include safety strategies for severe weather events and winter driving in driver education classes

Extreme Temperature

- ◆ Establish heating and cooling centers for vulnerable populations including the elderly and homeless
- ◆ Encourage local residents to contact friends, neighbors, and other family members during periods of extreme temperature

Drought

- ◆ Adopt local ordinances for prioritizing water usage during drought emergencies
- ◆ Develop public wells in deep aquifers
- ◆ Maintain enough water storage capacity in public water systems
- ◆ Protect wetlands from development
- ◆ Encourage the use of water-saving devices in homes and other places where water is used
- ◆ Encourage farmers to take out crop insurance
- ◆ Protect important aquifer recharge areas from inappropriate development

Wildland Fire

- ◆ Maintain appropriate fire fighting equipment to effectively respond to wildland fires
- ◆ Ensure that new homes are well protected from wildland fires and have multiple routes of ingress and egress
- ◆ Provide homeowners with information on how to create a defensible space around structures
- ◆ Bury electrical and telephone lines and other utility cables
- ◆ Institute measures to reduce soil erosion following a wildland fire event
- ◆ Local governments in rural areas can require the issuance of burn permits
- ◆ Encourage property owners to conduct controlled burns as a means of controlling fuel buildup

3. EXISTING MITIGATION STRATEGIES

FLOOD PROTECTION

Although most of the dams in Walworth County were built for recreational purposes, a number of them provide attenuation of peak discharges on the watercourses where they are located. Como Lake, Delavan Lake, Green Lake, Lake Geneva, and Whitewater Lake provide substantial attenuation of peak discharges on the watercourses where they are located. Most other lakes provide little to no attenuation of peaks and therefore provided little in the way of flood protection.

There is a dam on Honey Creek within the corporate limits of East Troy. Its primary use is for recreation. It has little effect on attenuation of peak discharges and, therefore, offers very little flood protection. The Swan Creek Basin also contains flat marshy areas upstream of the city of Delavan. These areas, along with the two control structures at Mill Pond and Delavan Lake, provide significant retention of floodwaters and attenuate peak discharges within the city of Delavan. The Turtle Creek Basin has a control structure at the Comus Lake outlet which, along with the flat marshy areas upstream of the city of Delavan, provides significant natural retention of floodwaters.

NATIONAL FLOOD INSURANCE PROGRAM

In 1968, Congress created the National Flood Insurance Program (NFIP)¹ to identify and map flood-prone communities and provide flood insurance to those property owners within a community that has adopted floodplain management regulations that meet minimum requirements. The Federal Insurance and Mitigation Administration, a division of the Federal Emergency Management Agency (FEMA), administers this federal program. Over 21,000 communities across the United States and its territories now participate in the NFIP.

Walworth County currently participates in the NFIP along with each of the cities and villages (Table 6-1).

According to a fact sheet produced by FEMA, the effects of non-participation in NFIP are as follows:

1. Flood insurance will no longer be available. No resident will be able to purchase a flood insurance policy.
2. No federal grants or loans for buildings may be made in identified flood hazard areas. Includes all federal agencies such as HUD, EDA, Small Business Administration, HHS, etc.
3. Only limited federal disaster assistance may be provided in identified flood hazard areas.
4. No federal mortgage insurance may be provided in identified flood hazard areas. This includes FHA, VA, Farmers Home, etc.
5. Legislative changes to Flood Disaster Protection Act, (FDPA) lifted restriction on conventional loans in non-participating communities and replaced it with the requirement that lenders (a) must notify buyer or lessee that property is in a flood area: and (b) must notify buyer or lessee that property in flood hazard area is not eligible for Federal disaster relief in a declared disaster.
6. Actuarial rates go into effect regardless or whether or not a community participates in the program. Without a local floodplain management ordinance unsafe construction today may be prohibitively expensive, and therefore unsalable, tomorrow. Such a condition could be triggered by a community's reentry in the program at a later date. Examples of reasons for re-establishing eligibility are as follows (a) New legislative body or inclination of such a body. (b) Larger share of mortgage market through FHA, VA, Farmers Home. (c) Federal grant or loan for particular project. (d) A major disaster, triggering need for disaster aid. (e) Changed political pressures.
7. Local governing body may be susceptible to some form of liability by not participating because their action: (a) denies the ability of its citizens to purchase flood and related water damage insurance, and (b) does not take positive steps to reduce the exposure of life and property in the face of authoritative scientific and technological data. Up to now, there have been no consistent court rulings along these lines.

¹ The National Flood Insurance Program was created with the passage of the National Flood Insurance Act of 1968.

Table 6-1. National Flood Insurance Program (NFIP) Status: May 15, 2021

Jurisdiction	Status
Village	
Bloomfield [2]	Current FIRM adopted 10/02/2009
Darien	Current FIRM adopted 3/11/2022
East Troy	Current FIRM adopted 10/02/2009
Fontana-on-Geneva Lake	Current FIRM adopted 09/03/2014
Genoa City [1]	Current FIRM adopted 06/12/2012
Mukwonago [1]	Current as of 10/02/2009
Sharon	Not mapped
Walworth	Participating, but does not contain any special flood hazard areas (SFHAs), all Zone C
Williams Bay	Current FIRM adopted
City	
Burlington [1]	Current FIRM adopted 05/02/2012
Delavan	Current FIRM adopted 10/02/2009
Elkhorn	Current FIRM adopted 4/15/2022
Lake Geneva	Current FIRM adopted 10/02/2009
Whitewater [1]	Current FIRM adopted 10/02/2009
Walworth County, unincorporated	Current FIRM adopted 10/02/2009

Source: Federal Emergency Management Agency, Community Status Book Report <https://www.fema.gov/cis/WI.pdf>
Data retrieved May 15, 2021 and November 15, 2022

Notes: 1. Municipality located in Walworth County and another county; data is for entire municipality
2. The village incorporated on December 20, 2011

Participation in the NFIP is based on an agreement between a local community and the federal government that states, if a community will adopt and enforce a floodplain management ordinance to reduce future flood risks to new construction in Special Flood Hazard Areas, the federal government will make flood insurance available within the community as a financial protection against flood losses.

The Walworth County floodplain ordinance is based on a model established by the Wisconsin Department of Natural Resources. In 2008, the DNR drafted a new model ordinance. All existing floodplain ordinances need to meet the requirements.

For those jurisdictions that participate in the NFIP, property owners are able to purchase flood insurance, including those not located within a mapped floodplain area. Flood insurance pays even when no state or federal disaster is declared. Historically, federal disaster declarations have been issued in less than 50 percent of the flooding incidents.

There are two types of flood insurance. The first is a policy that insures the physical structure and the second is a policy that covers the content of the building. The standard flood insurance policy provides coverage for one building per policy. The only exception is 10 percent coverage for a detached garage. However, the total payment for flood damage to the detached garage and the house together cannot exceed the building policy limit. For coverage to apply, the garage can only be used for parking and storage. All other buildings on the premises need separate coverage. The maximum allowable limits are \$250,000 for residential properties and \$500,000 for commercial properties.

Contents are not automatically included. If contents coverage is desired, a specific amount must be named and a separate premium charged. Contents coverage limits are \$100,000 for residential policies and \$500,000 for commercial policies.

Building property coverage includes:

- ◆ The insured building and its foundation
- ◆ The electrical and plumbing systems
- ◆ Central air conditioning equipment, furnaces, and water heaters
- ◆ Refrigerators, cooking stoves, and built-in appliances such as dishwashers
- ◆ Permanently installed carpeting over an unfinished floor
- ◆ Permanently installed paneling, wallboard, bookcases, and cabinets.
- ◆ Window blinds
- ◆ Detached garages (up to 10 percent of building property coverage)
- ◆ Debris removal

Federal disaster declarations are issued in less than 50% of the flooding incidents.

Personal property coverage includes:

- ◆ Personal belongings such as clothing, furniture, and electronic equipment
- ◆ Curtains
- ◆ Portable and window air conditioners
- ◆ Portable microwave ovens and portable dishwashers
- ◆ Carpets not included in building coverage (see above)
- ◆ Clothes washers and dryers
- ◆ Food freezers and the food in them
- ◆ Certain valuable items such as original artwork and furs (up to \$2,500)

The cost of an annual regular flood insurance policy varies depending on the site location, age of the building, design of the building, and elevation of the building if located in a flood hazard area

Sanitary sewer backups are not covered. However, many homeowners policies do have riders to cover sewer back-ups. Sewer back-up riders can cost as little as \$30 per year.

While flood insurance coverage can significantly reduce the potential economic loss to a landowner in case of a flood disaster, flood insurance also helps reduce the cost of disaster aid to the general public. It has been shown that every \$3 paid in flood insurance claims saves \$1 in disaster assistance payments.

In July 2005, there were 63 insurance policies in Walworth County with coverage of more than \$10.4 million. As of January 2013, the number of policies stands at 103, representing an increase of 63 percent when compared to 2005. Likewise, the total coverage has substantially increased to more than \$24.6 million, representing an increase of 136 percent since 2005.

Table 6-2. Flood Insurance Policies: March 31, 2021

Jurisdiction	Policies	Total Coverage	Total Premiums
Village			
Bloomfield [2]	3	\$562,400	\$4,332
Darien	0	0	0
East Troy	1	\$500,000	\$1,408
Fontana-on-Geneva Lake	10	\$3,500,000	\$4,628
Genoa City [1]	2	\$700,000	\$1,464
Mukwonago [1]	0	0	0
Sharon	0	0	0
Walworth	2	\$700,000	\$986
Williams Bay	0	0	0
City			
Burlington [1]	0	0	0
Delavan	2	\$850,000	\$3,013
Elkhorn	0	0	0
Lake Geneva	9	\$2,365,000	\$3,504
Whitewater [1]	14	\$3,739,500	\$10,719
Walworth County, unincorporated	67	\$19,070,000	\$38,559
Total	110	\$31,986,900	\$68,613

Source: Federal Emergency Management Agency (<http://bsa.nflipstat.fema.gov/reports/1011.htm>)
Data retrieved March 13, 2013

Notes:

1. Municipality located in Walworth County and another county; data for Walworth County only
2. The village incorporated on December 20, 2011

Table 6-3. Insurance Premium Reductions for Communities in the Community Rating System

CRS Rating	Special Flood Hazard Area	Non-Special Flood Hazard Area
1	45%	10%
2	40%	10%
3	35%	10%
4	30%	10%
5	25%	10%
6	20%	10%
7	15%	5%
8	10%	5%
9	5%	5%
10	0	0

COMMUNITY RATING SYSTEM

The Community Rating System (CRS) is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum requirements of the National Flood Insurance Program (NFIP). Because flood risk has been reduced, policy holders in participating communities enjoy lower flood insurance premiums than those located in a community that is not part of CRS. Flood insurance premium rates are discounted as shown in Table 6-3 based on a community's rating. A Class 1 community receives a 45 percent premium discount, while a Class 9 community receives a 5 percent discount. A Class 10 community is not participating in CRS and receives no discount. The CRS classes for local communities are based on 18 activities, organized under four categories (1) public information, (2) mapping and regulations, (3) flood damage reduction, and (4) flood preparedness. Nationwide, 1,049 communities are part of CRS, or roughly 5 percent of those who are eligible.

All of the jurisdictions in Walworth County that participate in the NFIP have a rating of 10 (Table 6-4).

PROPERTY ACQUISITION AND STRUCTURE REMOVAL

In some instances, communities have purchased structures that have been repeatedly flooded using federal, state, and local funding. As of 2008, Walworth County and none of the local jurisdictions have used this tool. The town of Sugar Creek purchased five homes that were flooded in 2008.

STORMREADY

StormReady is a national voluntary program, administered through local National Weather Service offices that encourages communities to take a proactive approach in developing plans to improve local hazardous weather operations and public awareness for all types of local severe weather threats². It is intended to give communities the skills and education needed to cope with and manage potential weather-related disasters, before and during the event. By participating in StormReady, local agencies can earn recognition for their jurisdiction by meeting criteria established by the National Weather Service in partnership with federal, state, and local emergency management professionals.

The program does not replace any of the various federally or state-funded hazard mitigation programs, rather, it compliments them. The entire community - from the mayor, emergency managers, to business leaders and civic groups - can take the lead on becoming StormReady. Education and communication are a key part of the StormReady program. The Wisconsin StormReady Advisory Board, comprised of National Weather Service personnel and state, regional, and county emergency managers, reviews applications and visits the jurisdictions to verify the steps made in the process to become StormReady. The designation is only valid for two years.

In Wisconsin, there were 10 counties and 13 municipalities that are certified StormReady (Table 6-5). The city of Whitewater is the only jurisdiction in the Walworth County to be certified.

Table 6-4. Community Rating System Rating of Selected Jurisdictions; Walworth County: October 1, 2020

Jurisdiction	CRS Rating
Village	
Bloomfield [2]	10
Darien	10
East Troy	10
Fontana-on-Geneva Lake	10
Genoa City [1]	na
Mukwonago [1]	10
Sharon	10
Walworth	10
Williams Bay	na
City	
Burlington [1]	10
Delavan	10
Elkhorn	10
Lake Geneva	10
Whitewater [1]	10
Walworth County, unincorporated	10

Notes:

1. Municipality located in Walworth County and another county
2. The village incorporated on December 20, 2011

Table 6-5. StormReady Jurisdictions; Wisconsin 2021

Counties	Communities
Brown	Bayside
Claumet	Belleville
Fond du Lac	Cedarburg
Iowa	Dousman
Lincoln	Elm Grove
Oneida	Hillsboro
Racine	Lake Delton
Sauk	Lake Mills
St. Croix	New Berlin
Washburn	Reedsburg
	Viroqua
	Waupaca
	Whitewater

Source: www.stormready.noaa.gov/communities.htm
Data retrieved February 10, 2014

² More information about StormReady is available from the Milwaukee/Sullivan Weather Service Forecast office. www.crh.noaa.gov/mkx/?n=stormready-mkx

NOAA WEATHER RADIO ALL HAZARDS

NOAA Weather Radio (NWR) is a nationwide network of radio stations broadcasting continuous weather information direct from a nearby National Weather Service office. NWR broadcasts National Weather Service warnings, watches, forecasts, and other hazard information 24 hours a day. It is also used to broadcast warning and post-event information for all types of hazards - both natural events (e.g., severe weather, flooding) and man-made events (e.g., Amber Alerts, toxic, chemical, and biological releases, terrorist attacks). In some states, Amber alerts are not broadcast on NWR; Wisconsin is an example. The radios can be programmed to receive information specific to a certain geographic area and sound an alarm to alert users of approaching dangerous weather. NWR is the primary actuator of the Federal Communications Commission's Emergency Alert System (EAS).

The NOAA Weather Radio network provides authoritative weather and emergency information to the public.

As of April 18, 2013, the NWR network included more than 900 stations covering an estimated 97 percent of the U.S. population. The Milwaukee/Sullivan Weather Service Forecast office is located in the town of Sullivan and serves 20 counties in south-central and southeast Wisconsin and programs seven transmitter sites. NOAA Weather Radios are available through retail stores that sell electronic appliances, marine supply stores, truck stops, cable shopping networks, mail order catalogs, and the Internet.

URBAN STORMWATER MANAGEMENT ORDINANCES

New urban development brings with it increases in impervious surfaces such as rooftops, driveways, and streets. As areas develop into urban land uses, there is an increase in both volume and rate of runoff. To control the rate of runoff and potential downstream increases in peak flood elevations, some communities require detention of stormwater.

Walworth County has a stormwater management ordinance and each of the cities and villages have an ordinance as well.

EROSION AND SEDIMENT CONTROL ORDINANCES

Sediment from construction sites can deposit in local streams causing blockages that can result in potentially higher flood elevations during storm events. To control construction site erosion from construction sites, the Wisconsin Department of Commerce has adopted construction site erosion control regulations through the state Uniform Building Code. State erosion control regulations are enforced by local building inspectors. In addition to the state regulations, Walworth County has adopted a construction erosion control ordinance for new developments.

SHORELAND ZONING

Under Wisconsin Administrative Code NR 115, counties are required to adopt a shoreland zoning ordinance that controls development within the shoreland³ of lakes and streams. The shoreland-zoning ordinance establishes minimum lot sizes—10,000 square feet on public sanitary sewer and 20,000 square feet on private sanitary systems. Buildings must be setback 75 feet from the ordinary high-water mark and comply with local floodplain zoning ordinances. The ordinance regulates the cutting of trees and shrubbery within 35 feet of the ordinary high-water mark and prohibits more than 30 feet of every 100 feet to be removed. Primary uses in the shoreland-zoning district are limited to open

³ A shoreland is defined as land within the following distances from the ordinary high-water mark of navigable waters: 1000 feet from a lake, pond, or flowage; and 300 feet from a river or stream or the landward side of the floodplain, whichever is greater. (NR 115.03 (8))

space, agricultural, and maintenance of piers, roadways, and public utilities. These development standards follow land when it is annexed into a city or village, unless the municipality has adopted an ordinance as strict as the county ordinance.

Walworth County has adopted an ordinance consistent with state requirements. No city or village has adopted a shoreland zoning ordinance.

SHORELAND WETLAND ZONING

Under Wisconsin Administrative Code NR 115, counties are required to adopt a shoreland wetland zoning ordinance that creates a shoreland wetland zoning district to control the development of wetlands that are two acres or more in size within the shoreland area. Permitted uses in the shoreland wetland district are limited to:

- ◆ recreation (hiking, fishing, hunting, swimming, and boating)
- ◆ agriculture
- ◆ public roadways and railroad lines
- ◆ public utilities
- ◆ non-residential building used for aquaculture

These development standards follow land when it is annexed into a city or village, unless the municipality has adopted an ordinance as strict as the county ordinance.

Walworth County has adopted an ordinance consistent with state requirements. No city or village has adopted a shoreland-wetland zoning ordinance.

COMPREHENSIVE PLANS

In 1999, the governor signed legislation that created a new framework for comprehensive planning in Wisconsin. By January 1, 2010, any community wanting to regulate land use must have an adopted comprehensive plan that meets minimum state requirements. Although state requirements do not require that natural hazard planning be a part of a comprehensive plan, communities do have an opportunity to consider natural hazards when devising land use plans and goals, objectives, and policies relating to land use and environmental management. Table 6-6 shows the status of these plans in the county.

Table 6-6. Status of Comprehensive Plans in Walworth County: March 2021

Jurisdiction	Status
Walworth County	Update 2019
Village	
Bloomfield [2]	None
Darien	2009
East Troy	Updated 2019
Fontana-on-Geneva Lake	Adopted 2020
Genoa City [1]	Adopted 2008
Mukwonago [1]	Updated 2019
Sharon	Adopted 2004
Walworth	Updated 2019
Williams Bay	Adopted 2010
City	
Burlington [1]	Not known
Delavan	Updated 2020
Elkhorn	Updated 2016
Lake Geneva	Updated 2019
Whitewater [1]	Updated 2017

Source: Verified April 2021

Notes:

1. Municipality located in Walworth County and another county
2. The village incorporated on December 20, 2011

FARMLAND PRESERVATION PROGRAM

The state of Wisconsin created the Wisconsin Farmland Preservation Program in 1977 to support the efforts of counties to preserve agricultural resources. If a county has an approved agricultural preservation plan that meets the standards of Chapter 91, Wisconsin Statutes, qualified farmland owners are eligible to receive a state income tax credit. In 1978, the county board adopted an agricultural preservation plan. Aside from protecting farmland from urban development, the county's plan will help to protect natural floodplains and flood storage.

TORNADO SIRENS

Tornado sirens are maintained by the various cities, villages, and towns in the county. It is not known how much of the county is not covered by a siren. The emergency operations plan for Walworth County identifies the procedures and resources used to provide interagency communications between responders and the procedures and resources used to provide warning to county residents in the event of a disaster.

MANAGEMENT OF FLOODED ROADWAYS

During larger flood events, some roadways in the county are blocked with water, which can create a potentially dangerous scenario for drivers, limit access to areas within the county, or cause travel delays. This section describes the ways in which flooded roads can be addressed, including roadway modification (e.g., bridge replacement and elevate roadway) and road closure.

Bridge Replacement. In some cases, an alternative to road inundation may be to increase the hydraulic opening of the bridge to allow more water to flow past the bridge and reduce the backwater on the upstream side of the bridge. When a bridge/culvert is scheduled for replacement due to age or roadway expansion, the bridge designers should look at the effect of the bridge design on the roadway overtopping. If feasible, the new bridge should be replaced with a structure that would meet the criteria outlined in Table 6-7.

The Wisconsin Department of Transportation (WDOT) provides design criteria for structure crossings a stream in the *Facilities Development Manual* (Procedure 13-10-1). Major structures, such as bridges and box culverts, are designed using a process of selecting a design frequency which best produces a balance between structure costs and the cost of potential flood-related damages or risks. Structures in new locations are generally designed to accommodate the 100-year event without increasing the upstream flood stages over existing conditions. Replacement structures are generally designed not to increase the headwater elevation from existing conditions.

In some situations, structure sizes may be increased to reduce the upstream flood elevations. In those cases, if the existing structure is causing upstream flood storage, the flows will need to be re-evaluated to determine if the new structure will increase downstream flows and stages. Under Wisconsin Administrative Code NR 116, if a new bridge results in upstream or downstream increases in the flood elevation greater than 0.01 feet (about 1/8”), easements from the affected landowners are required. Where feasible, roadway surfaces should be designed to provide emergency access during flood events.

Elevation of Roadways An alternative to roadway inundation is to raise the pavement surface to above the regional flood elevation. Placing additional fill along the roadway corridor would raise the road surface. While this alternative would help maintain public access, the raising of the road surface may increase flood elevations upstream of the fill. The fill would need to be structurally designed to withstand the hydraulic pressures of floodwaters. As roadway maintenance is scheduled, the designers should consider the alternative of roadway elevation. Roadways should only be raised where the project is cost effective.

Road Closures During Flooding Drowning is obviously the number one cause of flood deaths. What is surprising is the fact that more people drown in their cars than anywhere else. During flood events, the depth of the water over road surfaces is difficult to predict. Many drivers enter water they think is a few inches deep, only to find themselves in the center of a flowing stream.

The emergency operations plan for Walworth County outlines the procedures for emergency response during flood events including steps to close flooded roads and reroute traffic.

Table 6-7. Recommended Roadway Flood Protection Level

Roadway Classification	Recommended Protection
	Level
Interstate and railroads	100-year flood
State & county highway	50-year flood
Local arterial	50-year flood
Minor and collector street	10-year flood

PUBLIC INFORMATION

Information is one of the most important tools in helping people mitigate the potential impacts of natural hazards. To be effective, information needs to be available from several sources and be offered on an on-going basis.

By way of example, Exhibit 6-1 outlines the roles of the various organizations involved in public education with regards to floodplain issues.

Exhibit 6-1. Organizations and Their Roles in Distributing Public Information Regarding Floodplain Management

Organization / Activities
Federal Emergency Management Agency (FEMA) ◆ Provides information on National Flood Insurance Program (NFIP) ◆ Provides training to insurance industry on implementation of NFIP ◆ Provides technical information on flood mitigation activities ◆ Maintains a national library of floodplain maps
Wisconsin Emergency Management ◆ Provides information and training in emergency management including preparedness, response, recovery, and mitigation activities
Wisconsin Department of Natural Resources ◆ Provides information on National Flood Insurance Program (NFIP) ◆ Provides technical information on flood mitigation activities ◆ Maintains a state library of floodplain maps and flood profile models ◆ Provides training to local zoning administrators on implementation of floodplain zoning ordinances
Walworth County Land Use & Resource Management Department (LURM) ◆ Maintains local library of floodplain maps ◆ Provides information on National Flood Insurance Program (NFIP) ◆ Provides information on county floodplain regulations
Local Insurance Agents ◆ Provides information on National Flood Insurance Program (NFIP)
Local Lending Agencies ◆ Provides information on National Flood Insurance Program (NFIP). Flood insurance is required on federally-backed mortgages for properties located in a floodplain.
Real Estate Agents ◆ Provides information on National Flood Insurance Program (NFIP) ◆ Required by state law to notify buyers whether or not a structure is located in a regulatory floodplain

In an effort to keep state residents informed about natural hazards, the National Weather Service and Wisconsin Emergency Management sponsors a number of public awareness campaigns, including:

- ◆ Tornado & Severe Weather Week
- ◆ Rip Current Awareness Week
- ◆ Heat Awareness Day
- ◆ Lightning Safety Week proclamations
- ◆ Winter Awareness Week
- ◆ Flood Safety Week

4. FUNDING SOURCES

AVAILABLE FEDERAL FUNDING SOURCES

The Federal Emergency Management Agency administers a number of programs that fund mitigation activities at the local and state level.

Hazard Mitigation Grant Program The Hazard Mitigation Grant Program (HMGP) provides grants to States and local governments to implement long-term hazard mitigation measures after a major disaster declaration. The purpose of the HMGP is to reduce the loss of life and property due to natural disasters and to enable mitigation measures to be implemented during the immediate recovery from a disaster. The HMGP is authorized under Section 404 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act.

Flood Mitigation Assistance Program The Flood Mitigation Assistance (FMA) program was created as part of the National Flood Insurance Reform Act (NFIRA) of 1994 with the goal of reducing or eliminating claims under the National Flood Insurance Program (NFIP). FEMA provides FMA funds to assist States and communities implement measures that reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insurable under the National Flood Insurance Program.

Pre-Disaster Mitigation Program The Pre-Disaster Mitigation (PDM) program provides funds to states, territories, Indian tribal governments, communities, and universities for hazard mitigation planning and the implementation of mitigation projects prior to a disaster event. Funding these plans and projects reduces overall risks to the population and structures, while also reducing reliance on funding from actual disaster declarations. PDM grants are to be awarded on a competitive basis and without reference to state allocations, quotas, or other formula-based allocation of funds.

Repetitive Flood Claims Program The Repetitive Flood Claims (RFC) grant program was authorized by the Bunning-Bereuter-Blumenauer Flood Insurance Reform Act of 2004, which amended the National Flood Insurance Act of 1968. Up to \$10 million is available annually for FEMA to provide RFC funds to assist States and communities reduce flood damages to insured properties that have had one or more claims to the National Flood Insurance Program. Eligible activities include acquisition of properties, and either demolition or relocation of flood-prone structures, where the property is deed restricted for open space uses in perpetuity.

Severe Repetitive Loss Program The Severe Repetitive Loss (SRL) grant program was authorized by the Bunning-Bereuter-Blumenauer Flood Insurance Reform Act of 2004, which amended the National Flood Insurance Act of 1968 to provide funding to reduce or eliminate the long-term risk of flood damage to severe repetitive loss (SRL) structures insured under the National Flood Insurance Program (NFIP). The act authorized up to \$40 million for each fiscal year 2005 through 2009.

Eligible flood mitigation project activities include floodproofing (historical properties only), relocation, elevation, acquisition, mitigation reconstruction (demolition rebuild), and minor physical localized flood control projects.

FUNDING RECEIVED

Walworth County has received the funding listed in Table 6-8 for the specified activities.

Table 6-8. Federal and State Funding for Mitigation Activities: 1965–2021

Year	Jurisdiction	Funded Activities
2008	Walworth County	Preparation of initial hazard mitigation plan
2012	Walworth County	5-year update of hazard mitigation plan
2020	Walworth County	5-year update of hazard mitigation plan

Source: Walworth County Emergency Management

5. REVIEW OF CAPABILITIES

This multi-jurisdictional plan covers all of the unincorporated area of Walworth County and 14 municipalities – 9 villages and 5 cities. They all have different levels of resources and personnel that could be made available in the implementation of this plan (Table 6-9).

Table 6-9. Summary of Staff Capabilities: 2021

	Administrator	Emergency Management Staff	Community Planner
Village			
Bloomfield [2]	No	No	No
Darien	Yes	No	Contracted
East Troy	Yes	No	Contracted
Fontana-on-Geneva Lake	Yes	No	Contracted
Genoa City [1]	No	No	No
Mukwonago [1]	Yes	No	Yes
Sharon	No	No	No
Walworth	Yes	No	No
Williams Bay	Yes	No	No
City			
Burlington [1]	Yes	No	Yes
Delavan	Yes	No	No
Elkhorn	Yes	No	Yes
Lake Geneva	Yes	Yes (0.5 FTE)	No
Whitewater [1]	Yes	Yes (1 FTE)	Yes
Walworth County	Yes	Yes (1.3 FTE)	Yes (2 FTE)

Notes:

1. Municipality located in Walworth County and another county
2. The village incorporated on December 20, 2011

6. GOALS, OBJECTIVES, POLICIES, AND ACTIVITIES

This section builds off of the previous parts of the plan and presents a unified plan of action to mitigate the effects of natural hazards on property, people, and assets. It lists goals, objectives, and policies that should guide decision-makers and other officials. Goals are intended to describe an end state, usually in

general terms. In contrast, objectives describe an end state in measurable and specific terms. Policies give clear direction on what will be done to help achieve a goal and/or objective.

Following the listing of goals, objectives, and policies, a chart lists specific action items. Responsible entities are listed for each activity so that implementation is well defined.

At their meeting, the Steering Committee reviewed the goals, objectives, policies and activities listed below. Each were reviewed and updated or reconfirmed.

The activity charts are a work in progress. As items are completed, they should be deleted and new items will be added as new opportunities or issues arise. Further, depending on available resources, including funding and staff time, priorities may change.

MAJOR ACCOMPLISHMENTS

A number of accomplishments have been achieved since the last plan was adopted in 2015 (Exhibit 6-2).

Exhibit 6-2. Accomplishments: 2015-2021

1. More communications are bilingual (English-Spanish)

PRIORITIZATION OF GOALS AND ACTIONS

Activities are prioritized as low, medium, or high based on the STAPLE+E approach. Exhibit 6-3 lists each of the criteria used to identify the priority. The mitigation actions with the highest priority were deemed to be the most cost effective and most compatible with the community's social and cultural values.

Exhibit 6-3. STAPLE+E

Criteria	Description
S- Social	Mitigation actions are acceptable to the community if they do not adversely affect a particular segment of the population, do not cause relocation of lower income people, and if they are compatible with the community's social and cultural values.
T-Technical	Mitigation actions are technically most effective if they provide long- term reduction of losses and have minimal secondary adverse impacts.
A – Administrative	Mitigation actions are easier to implement if the jurisdiction has the necessary staffing and funding.
P – Political	Mitigation actions can truly be successful if all stakeholders have been offered an opportunity to participate in the planning process and if there is public support for the action.
L – Legal	It is critical that the jurisdiction or implementing agency have the legal authority to implement and enforce a mitigation action.
E – Economic	Budget constraints can significantly deter the implementation of mitigation actions. Hence, it is important to evaluate whether an action is cost-effective, as determined by a cost benefit review, and possible to fund.
E – Environmental	Sustainable mitigation actions that do not have an adverse effect on the environment, that comply with Federal, State, and local environmental regulations, and that are consistent with the community's environmental goals, have mitigation benefits while being environmentally sound.

COST BENEFIT ANALYSIS FOR GOALS AND ACTIONS

Specific cost benefit reviews will occur for each action in each participating jurisdiction during annual budget scenarios. Most identified actions are programmatic and not capital expenditures. The impact and cost of each program will be determined on an as needed basis prior to implementation. The information provided with each action is intended to assist in the cost benefit evaluation of each action. Costs estimates, funding sources, schedules, and responsible parties are preliminary and subject to change based on fiscal conditions. Federal funding for mitigation activities can only be obtained when benefits clearly outweigh the costs.

Cost estimates are provided to help formulate funding priorities. When a project is to be undertaken, a more detailed budget should be prepared to assess a project's cost. At that time, a benefit cost analysis should be completed to show how the benefits of the project compare to anticipated costs. Federal funding for mitigation activities can only be obtained when benefits clearly outweigh the costs.

RELATIONSHIP TO OTHER LOCAL PLANNING EFFORTS

It is strongly recommended that these goals and actions be adopted as part of local comprehensive planning efforts where appropriate, especially in areas where existing problems can be corrected and to prevent problems from occurring in newly developed areas.

SUMMARY OF REVISIONS TO OBJECTIVES, POLICIES, AND IMPLEMENTATION ACTIVITIES

The following exhibit presents a summary of changes in objectives, policies, and implementation activities between the 2014 plan and the 2021/22 plan. Cost estimates were updated as appropriate.

Exhibit 6-4. Summary of Changes to Objectives, Policies, and Activities in 2021/22 Plan

Goal	Objectives	Policies	Activities (to be verified)
Goal 1. Public Education	No change	No change	Change priority of #6 from low to medium.
Goal 2. Flooding	No change	No change	The Village of East Troy completed a study to determine if the Mill Pond dam should be removed or updated. Removal is pending subject to final technical reviews. With completion, the Village will no longer need dam inspections as an activity.
Goal 3. Tornadoes	No change	No change	No change
Goal 4. Extreme Temperature	No change	No change	No change
Goal 5. Severe Storms, Hail & High Winds	No change	No change	No change
Goal 6. Drought	No change	No change	No change
Goal 7. Wildland Fire	No change	No change	No change

UNIQUE IMPLEMENTATION ACTIVITIES

Most of the cities and villages adopting this plan have identified one or more unique implementation activity. After extensive consideration, the villages of Bloomfield and Fontana and the cities of Elkhorn and Genoa City determined that the action items generally applicable to the entire county were sufficient and that no special action items were warranted.

Goal 1. Public Education

Provide the public with the education they need to adequately prepare for and respond to natural hazards including dam failure, flooding, ice shoves, dense fog, tornadoes, hailstorms, thunderstorms, winter storms, extreme temperature, drought, and wildland fire.

Objectives

1. Strengthen emergency service preparedness and response by enhancing public education throughout the county.
2. Increase the number of households that have prepared a family emergency plan.
3. Increase the number of public outreach materials in Spanish.

Policies

1. Work with non-governmental organizations such as youth, service, professional, religious organizations to promote mitigation education and awareness.
2. Look for multiple and varied opportunities to disseminate educational information to county residents.

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
1. Develop and implement education programs aimed at mitigating natural hazards and reducing the risk to citizens, public agencies, private property owners, businesses, and schools (e.g., Savy Seniors). (2022 status – ongoing)	\$5,000	Medium	X	X	Walworth County Emergency Management; American Red Cross; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
2. Create displays for use at public events such as the county fair, wellness fairs (2022 status – ongoing effort)	Staff time and supplies	Medium	X		Walworth County Emergency Management; Walworth County Department of Health & Human Services; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
3. Work with the representatives of the public and private schools within the county to promote hazard mitigation awareness (2022 status – ongoing effort)	Staff time	Medium	X	X	Walworth County Emergency Management; American Red Cross; Walworth County Department of Health & Human Services
4. Identify, improve, and sustain collaborative programs focusing on the real estate and insurance industries, public and private sector organizations, and individuals to avoid activity that increases risk to natural hazards. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; American Red Cross; local jurisdictions, Walworth County Department of Land Use & Resource Management
5. Develop and maintain a geographic database for natural hazard events, including location, weather conditions, and resulting damage. (2022 status – ongoing effort)	Staff time	High	X		Walworth County Emergency Management; Walworth County Information Systems Department, Land Information Division
6. Provide more hazard-related information in Spanish. (2022 status – ongoing)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Department of Health & Human Services, Workforce Development
7. Work with area business representatives and citizens through our Public/Private Partnership to promote hazard mitigation awareness (2022 status – ongoing effort)	Staff time	Medium	X		City of Lake Geneva

Goal 2. Flooding

Protect the public health, safety, and welfare of county residents and public and private property during flood events.

Objectives

1. Minimize the impact of flooding on potentially affected structures.
2. Decrease the number of structures currently located in the 100-year floodplain that are not properly flood-proofed.
3. Minimize the amount of impervious surface in new development projects to allow more infiltration of storm water into the ground.
4. Increase public awareness of flooding.
5. Improve communication between the county and local units of government when floods occur or are likely to occur.

Policies

1. Continue to enforce floodplain regulations to ensure that future development in the 100-year floodplain meets established standards.
2. Support the identification and conservation of land with high flood mitigation value (e.g., wetlands, upland storage, and infiltration areas).
3. Support land acquisition and other management strategies to preserve open space for flood mitigation purposes.
4. Ensure that governmental officials and employees, county residents, and real estate agents are aware of floodplain regulations.
5. Ensure that people owning property in the 100-year floodplain, and their agents, notify buyers when selling their property.
6. Adopt standards to control the proportion of a site that can be covered with impervious surfaces.
7. Locate public infrastructure outside of the 100-year floodplain. When infrastructure has been located in the 100-year floodplain, it should be flood proofed or otherwise protected from flood water.
8. Design and properly size all new stream crossings to not create a significant upstream back-water effect.
9. Continue to enforce storm water management regulations.
10. Update flood insurance rate maps (FIRMs) when it can be shown that they are substantially inaccurate.
11. Ensure that all large dams in the county have emergency action plans and that they are up to date.
12. Undertake such activities as may be required to remain compliant with the requirements of the National Flood Insurance Program.

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
1. Identify and evaluate feasible mitigation options for those properties which may be designated as a repetitive flood property. (2022 status – ongoing effort)	Staff time	Low	X	X	Walworth County Emergency Management; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
2. Apply for funding through the federal Hazard Mitigation Grant program, Flood Mitigation Assistance Program, and the Pre-Disaster Mitigation Program as well as any other resources that may be available to help flood proof repetitive loss sites or remove them through acquisition followed by demolition or relocation. (2022 status – ongoing effort)	Staff time	Low	X	X	Walworth County Emergency Management; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
3. Design and budget for stormwater management facilities consistent with adopted stormwater management plans than have been or will be prepared / amended. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; local jurisdictions as appropriate [1]
4. Develop and maintain a digital inventory of bridges/culverts on a county or state road. (2022 status – ongoing effort)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Public Works Department, Walworth County Information Systems Department, Land Information Division
5. Identify those culverts and bridges that are undersized or are otherwise unable to handle expected flood flows. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Public Works Department, cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
6. Develop and maintain a geographic database for public roadways that are susceptible to flooding. (2022 status – ongoing effort)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Public Works Department, Walworth County Information Systems Department, Land Information Division
7. Prepare a strategy to prioritize road improvements for public roadways that are susceptible to flooding. (2022 status – no action)	Staff time	Medium	X		Walworth County Public Works Department; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
8. Identify undeveloped areas of the county, if any, that have flood mitigation value and develop appropriate strategies to protect them. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Department of Land Use & Resource Management; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
9. Establish a framework to compile and coordinate surface water management plans and data throughout the county. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; Wisconsin Department of Natural Resources
10. Distribute National Flood Insurance Program information. (2022 status – ongoing effort)	Staff time	Medium	X	X	Walworth County Emergency Management; Walworth County Department of Land Use & Resource Management; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
11. Explore options for improving the ability of local units of government to report flooding, receive information, and request assistance as may be needed. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management
12. Develop and maintain a geographic database for natural hazard events, including location, weather conditions, and resulting damage. (2022 status – no action)	Staff time	High	X	X	Walworth County Emergency Management; Walworth County Information Systems Department, Land Information Division]
13. Evaluate the support for and the feasibility of becoming part of the Community Rating System (CRS) to lower flood insurance premiums for property owners. (2022 status – no action)	Staff time	High	X		Walworth County Emergency Management; cities of Delavan, Lake Geneva, and Whitewater; villages of Bloomfield, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, and Walworth (Note: City of Elkhorn and the villages of Darien and Williams Bay are not part of the program)
14. Work with the DNR to ensure that an emergency action plan is prepared for large dams and that they are periodically updated. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management
15. Develop a prioritized list of areas of the county meriting detailed flood studies. (2022 status – no action)	Staff time	Low	X		Walworth County Emergency Management

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
16. Ensure that privately-owned large dams are inspected consistent with state law. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; local jurisdictions as appropriate [1]
17. Ensure that publicly-owned large dams are inspected consistent with state law. (2022 status – no action)	Staff time	Medium	X		Local jurisdictions as appropriate [1], Wisconsin Department of Natural Resources
18. So as to continue compliance with state and federal requirements, revise existing floodplain regulations to ensure they comply with the most recent model floodplain regulations developed by the Wisconsin Department of Natural Resources (2022 status – ongoing effort)	Staff time	High	X		Walworth County Department of Land Use & Resource Management; cities of Delavan, Lake Geneva, and Whitewater; villages of Bloomfield, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, and Walworth (Note: City of Elkhorn and the villages of Darien and Williams Bay are not part of the program)
19. Undertake measures to address flooding within the Oak Knoll subdivision in the Village of Walworth. (2022 status – no action)	Unknown	High	X		Village of Walworth
20. Repair the Beulah Dam (County Highway J) (2022 status – no action)	Unknown	Medium	X		Walworth County Emergency Management; local jurisdictions [1]
21. Repair the Whitewater Lake Dam (2022 status – no action)	Unknown	High	X		Walworth County Emergency Management; local jurisdictions
22. Conduct a study to determine feasible and cost effective solutions to minimize flooding in those lake basins with a natural outlet such as Whitewater Lake and Turtle Lake and those without a natural outlet such as Lake Lorraine. (2022 status – no action)	Unknown	Medium	X		Walworth County Emergency Management; effected towns and local jurisdictions
23. Identify restrictions of water flow from Turtle Lake, Turtle Valley Wildlife Area, and Turtle Creek. Identify and analyze mitigation options for those properties and roadways affected. (2022 status – no action)	Unknown	High	X		Walworth County Emergency Management; Towns of Sugar Creek and Richmond and other effected towns and local jurisdictions
24. Address the reoccurring flooding of Chilson Road and prevent flood water from entering the sewer facility on Chilson Road. Remove trees from area by road and replace with geotextile material and rock. Also, put in a grassed waterway to help with the water flow. (2022 status – no action)	\$9,000 with potential for other funding	High	X		Town of Sharon; Walworth County Conservancy helped with the project design and will oversee the project
25. Conduct a study to determine feasible and cost-effective solutions to minimize flooding in the Inlet Oaks subdivision and implement a long-term solution. (2022 status – no action)	Unknown	High	X		Town of Delavan; Delavan Lake Sanitary District
26. Conduct a study to determine why there is flooding on the north side of Lake Wandewega and implement a long-term solution. (2022 status – no action)	Unknown	High	X		Town of Sugar Creek
27. Address the flooding along Potter Road, Hodges Road (near bridge area), and Bray Road (by the cross culvert near Plank Road and W3873 driveway) (2022 status – no action)	Unknown	High	X		Town of La Fayette
28. Mitigate flood water at Nipersink through culvert placement and ditch improvements. (2022 status – no action)	\$35,000	High	X		Town of Bloomfield

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
29. Continue to evaluate flooding issues along Madison Street and Wisconsin Street by the Ponds subdivision (2022 status – infrastructure included in Capital Improvement Plan)	\$125,000	High	X		Village of Darien
30. Storm sewer work along George St. and Ballard St. and ditch work along Prairie St. to improve flows (2022 status – no action)	Unknown	Medium	X		Village of Sharon, DPW

Notes:

* Indicates policies or activities that are intended to ensure continued compliance with the National Flood Insurance Program (NFIP).

Goal 3. Tornadoes

Lessen the effects of a tornado to the extent feasible and speed recovery following an event.

Objectives

1. Increase public education and awareness of the potential severity of tornadoes.
2. Minimize the amount of time that businesses damaged by a tornado are not operational.
3. Minimize the amount of time it takes to rebuild or restore dwellings damaged by a tornado.
4. Prevent injuries and death from tornadoes.

Policies

1. Bury overhead power and utility lines where feasible as a way to reduce power outages during all types of storm events.
2. Require that mobile homes and manufactured housing are securely anchored in place.
3. Ensure that adequate tornado shelters are available to county residents especially those living in mobile home parks.
4. Include redevelopment objectives in smart growth comprehensive plans to support post-disaster development activities.
5. Continue to support the efforts of severe weather spotters.
6. Keep the current siren system functioning and in good repair.
7. Encourage residents to obtain NOAA weather radios especially in those areas of the county that are not covered by a siren.
8. Encourage home builders and others to incorporate wind-resistant features into new home construction (e.g., anchor straps).

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
1. Periodically assess whether there are enough shelters to house displaced persons. (2022 status – ongoing effort)	Staff time	Medium	X	X	Walworth County Emergency Management; American Red Cross
2. Apply for mitigation funding to purchase NOAA weather radios for county residents. (2022 status – no action)	Staff time	Low	X		Walworth County Emergency Management
3. Study the feasibility of and support for adopting a local regulation which would require new mobile home parks and future expansions of existing parks to provide for a tornado shelter. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management
4. Develop and implement strategies for debris management. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Public Works Department; American Red Cross
5. Amend land development regulations to require a storm shelter in mobile home parks when the number of mobile homes exceeds a threshold as established by the jurisdiction. (2022 status – no action)	Staff time	Medium	X		Walworth County Land Use & Management Department, Walworth County Emergency Management; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Sharon, Walworth, Williams Bay
6. Install storm shelters near or in existing mobile home parks and high occupancy campgrounds. (2022 status – no action)	Staff time	Medium	X		Mobile home park operators and campground operations with Walworth County Emergency Management
7. Develop and maintain a geographic database for natural hazard events, including location, weather conditions, and resulting damage. (2022 status – ongoing effort)	Staff time	High	X		Walworth County Emergency Management; Walworth County Information Systems Department, Land Information Division
8. Identify opportunities for developing a joint dispatch center (2022 status – Whitewater completed a study to determine options)	Staff time	High	X		Walworth County Emergency Management and other county departments
9. Install a backup generator in the Town of Troy Town Hall/Fire Hall (2022 status – no action)	\$30,000	High	X		Town of Troy
10. Upgrade the command and control for outdoor sirens, update existing sirens as necessary, add new sirens as needed (2022 status – no action)	Unknown	Medium	X		City of Delavan

11.	Continue preventative maintenance of tornado sirens (2022 status – ongoing effort)	\$1,600 per year	High	X	X	Village of East Troy Police Department
12.	Reach out to camps in the town to discuss severe weather/tornado shelters (2022 status – new)	Staff time	High	X	X	Town of East Troy

Goal 4. Extreme Temperature

Protect the health of Walworth County residents from extreme temperature.

Objectives

1. Prevent deaths and injuries from extreme temperature.

Policies

1. Encourage volunteers to look after vulnerable individuals, especially the elderly, during times of extreme temperature.
2. Open county and other public facilities with air conditioning as appropriate for public access during periods of extreme heat.
3. Ensure that county residents are aware that there are different forms of assistance to help qualified individuals to help pay their winter heating costs.

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
1. Develop a directory of public buildings that would be open to the public during extended heat waves. (2022 status – no action)	Staff time	Medium	X	X	Walworth County Emergency Management; Walworth County Department of Health & Human Services
2. Call a meeting of public and nonprofit organizations that may be able to mobilize a volunteer corps of individuals willing to assist vulnerable people during periods of extreme temperature. (2022 status – no action)	Staff time	High	X		Walworth County Emergency Management; Walworth County Department of Health & Human Services
3. Investigate the possibility of establishing a database of individuals who are vulnerable to extreme temperature and who have voluntarily placed their name on the call list (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Department of Health & Human Services; American Red Cross
4. Publicize available programs that help low-income residents pay for their utility expenses. (2022 status – ongoing effort)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Department of Health & Human Services; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
5. Develop and maintain a geographic database for natural hazard events, including location, weather conditions, and resulting damage. (2022 status – ongoing effort)	Staff time	High	X		Walworth County Emergency Management; Walworth County Information Systems Department, Land Information Division
6. Amend the county's emergency operations plan to address extreme temperatures. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management
7. Continue cooling center policy (2022 status – ongoing effort)	Staff time	High	X	X	Village of East Troy

Goal 5. Severe Thunderstorm Winds & Hail and Non-thunderstorm High Winds

Protect and prepare Walworth County residents from the dangers of extreme weather.

Objectives

1. Increase public education and awareness of the potential dangers of thunderstorms, snow storms, hail, and windstorms.

Policies

1. Bury overhead power and utility lines where feasible as a way to reduce power outages during all types of storm events.
2. Provide citizens with early storm warnings
3. Encourage the use of surge protectors on critical electronic equipment in governmental and critical facilities.
4. Work with utility companies to assess and to improve, when necessary, electric service reliability.
5. Work with public and private utility companies to ensure that trees are properly trimmed near utility lines.

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
1. Continue to update and/or monitor the County's public early warning system and network. (2022 status – ongoing effort)	Staff time	Medium	X	X	Walworth County Emergency Management; local jurisdictions
2. Review local building codes to determine if revisions are needed to improve the structure's ability to withstand greater wind velocities and encourage provision of safe rooms, especially in structures that do not have a basement. (2022 status – no action)	Staff time	Low	X		Walworth County Emergency Management; local jurisdictions
3. Produce and distribute emergency preparedness information related to thunderstorms, snow storms, hailstorms, and windstorm hazards. (2022 status – ongoing effort)	Staff time	Medium	X		Walworth County Emergency Management; American Red Cross; local jurisdictions
4. Identify and pursue funding opportunities to develop and implement local and county mitigation activities. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; American Red Cross; local jurisdictions
5. Install lightning grade surge protection devices for critical electronic components used by government, public service, and public safety facilities, such as warning systems, control systems, communications, and computers. (2022 status – no action)	\$3,000	Medium	X		Walworth County Emergency Management; American Red Cross; local jurisdictions
6. Provide the public with information about proven lightning safety guidelines to reduce the risk of lightning hazards. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; local jurisdictions
7. Develop and implement strategies for debris management. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; Walworth County Public Works, local jurisdictions
8. Apply for mitigation funding to purchase NOAA weather radios for county residents. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management
9. Develop and maintain a geographic database for natural hazard events, including location, weather conditions, and resulting damage. (2022 status – ongoing effort)	Staff time	High	X		Walworth County Emergency Management; Walworth County Information Systems Department, Land Information Division
10. Evaluate the feasibility and effectiveness of adding additional storm sirens (2022 status – no action)	Unknown	Medium	X		Village of Mukwonago
11. Maintain certification as a Weather Safe Community (NWS designation) (2022 status – ongoing effort)	Staff time	Medium	X	X	City of Whitewater
12. Continue to replace outdated storm sirens (2022 status – ongoing effort)	Unknown	Medium	X		Village of Williams Bay
13. Continue to promote and sponsor severe weather spotter courses (2022 status – ongoing effort)	Staff time	Medium	X	X	City of Lake Geneva

14. Establish a storm shelter (2022 status – no action)	Unknown	Medium	X	Village of East Troy
15. Airport weather and wind shear equipment upgrade (2022 status – no action)	Unknown	Medium	X	Village of East Troy

Goal 6. Drought

Protect the public health, safety, and welfare of county residents during periods of drought.

Objectives

1. Decrease water consumption during periods of drought.
2. Minimize the economic impacts of drought on the local economy

Policies

1. Encourage water conservation during periods of drought.
2. Impose watering restrictions during periods of extreme drought.
3. Work with appropriate agencies to conserve water, provide drought prediction, and provide stream and groundwater monitoring.
4. Work with agencies that can assist with and promote soil health, preserve soil moisture and help to minimize the loss of the crops and topsoil in the event of a drought.
5. Continue to monitor groundwater levels to identify the status of groundwater resources and trends
6. Work with state agencies and other levels of government in developing appropriate regional strategies to address drought conditions.

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
1. Create an ordinance to prioritize or control water use during drought conditions. (2022 status – no action)	Staff time	Medium	X	X	Municipalities with public water systems
2. Develop a set of procedures for water distribution during drought to those in need. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
3. Develop and maintain a geographic database for natural hazard events, including location, weather conditions, and resulting damage. (2022 status – ongoing effort)	Staff time	High	X		Walworth County Emergency Management; Walworth County Information Systems Department, Land Information Division

Goal 7. Wildland Fire

Protect structures and people in Walworth County from uncontrolled wildfires.

Objectives

1. Decrease the number of wildland fires occurring in the county.
2. Decrease the number of acres burned from wildland fires.
3. Increase public education.

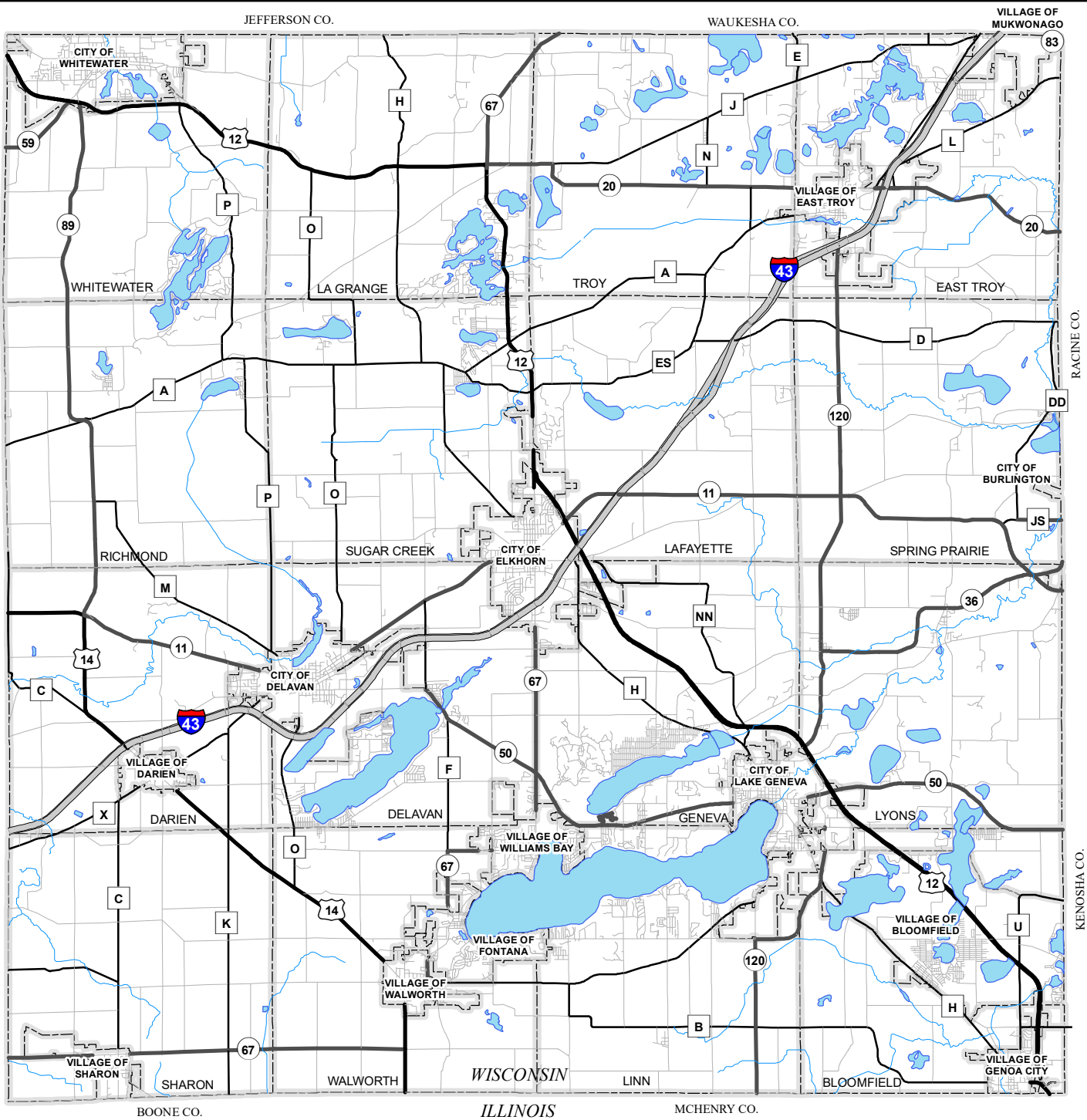
Policies

1. Support the use of controlled burns as a way of reducing the threat of dangerous wildland fires.
2. Enhance emergency services to increase the efficiency of wildfire response and recovery activities.
3. Keep track of wildfire events in the county to better document the extent and location of these events.

Implementation Actions / Strategies	Cost Estimate (2022)	Priority	Schedule		Responsible Entity
			2022 to 2026	2027 to 2031	
1. Apply for federal and state grants to enhance the capability of local fire departments. (2022 status – no action)	Staff time	Medium	X	X	Walworth County Emergency Management; local fire departments
2. Provide education to county and municipality personnel about federal cost-share and grant programs, fire protection agreements, and other related federal programs so the full array of assistance available to local agencies is understood. (2022 status – no action)	Staff time	Low	X		Walworth County Emergency Management; cities of Delavan, Elkhorn, Lake Geneva, and Whitewater; villages of Bloomfield, Darien, East Troy, Fontana-on-Geneva Lake, Genoa City, Mukwonago, Sharon, Walworth, and Williams Bay
3. Develop a digital database to keep track of wildfire events in the county. (2022 status – no action)	Staff time	Medium	X		Walworth County Emergency Management; local fire departments
4. Develop and maintain a geographic database for natural hazard events, including location, weather conditions, and resulting damage. (2022 status – ongoing effort)	Staff time	High	X		Walworth County Emergency Management; Walworth County Information Systems Department; Land Information Division
5. Investigate the establishment of a uniform way of providing information to the public regarding issuance of burning permits. (2022 status – no action)	Staff time	High	X		Walworth County Sheriff's Department; local fire departments

MAP SERIES

1. Road Network: 2021
2. Surface Water Resources: 2021
3. Campgrounds and Mobile Home Parks: 2021
4. Bridges and Dams: 2021
5. Public-Use Airports and Railroads: 2021
6. Telecommunication Facilities: 2021
7. Energy Facilities: 2021
8. Public Water and Wastewater Facilities: 2021
9. Public Safety Facilities: 2021
10. Government Facilities: 2021
11. Schools: 2021
12. Special Care Residential Facilities: 2021
13. Special Care Non-Residential Facilities: 2021
14. Health Care Facilities: 2021
15. Structures in 100-Year Floodplain: 2008



Legend

- Local Road
- County Road
- State Highway
- US Highway
- Interstate
- Water Body
- River
- Municipal Boundary

Source: Base map from Walworth County
Information Systems Department

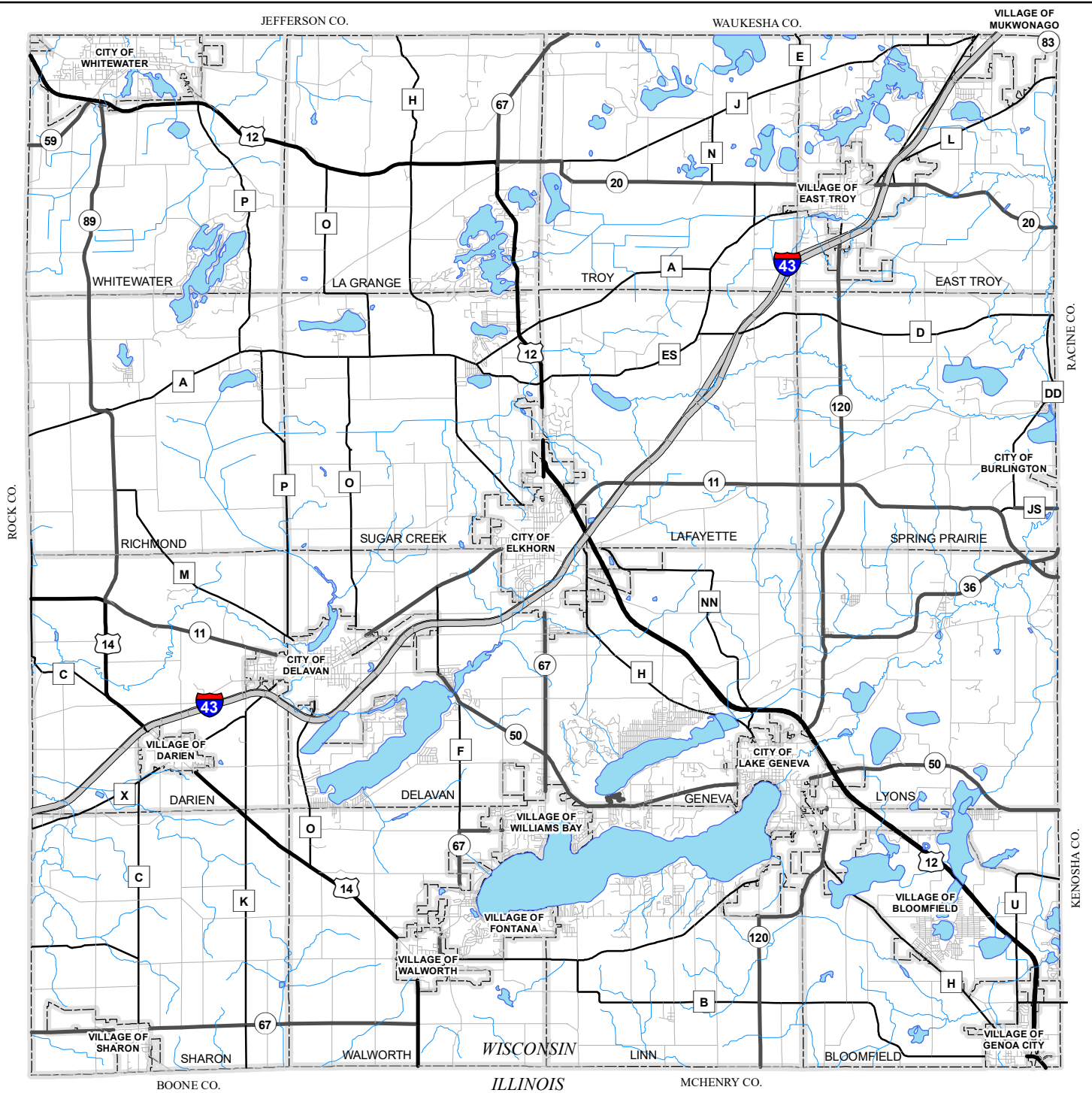
0 2.5 5 Miles



Map 1 Road Network: 2021

Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

-  Water Body
-  River and Stream
-  Municipal Boundary

Source: Base map from Walworth County
Information Systems Department

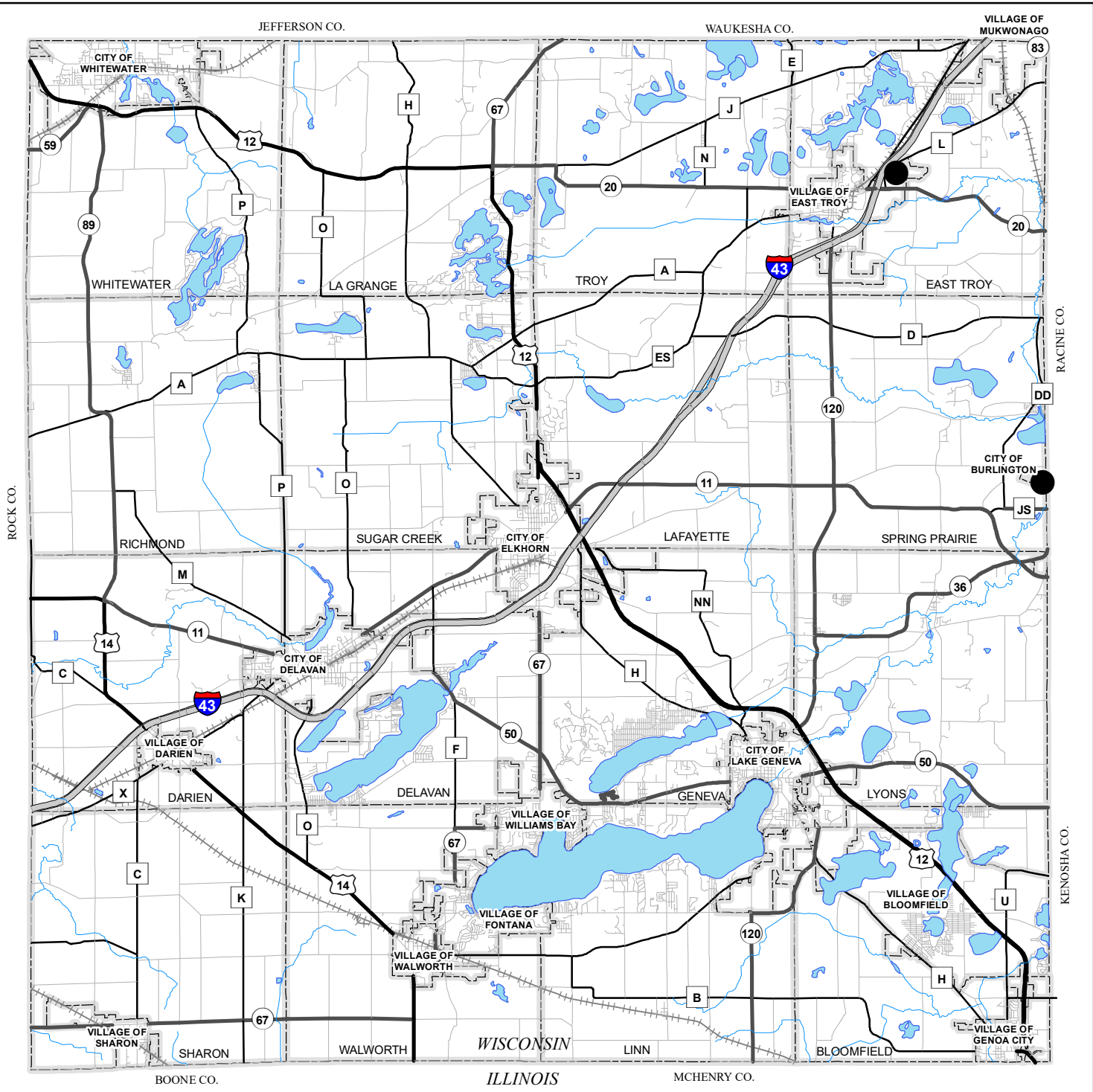
0 2.5 5 Miles



Map 2 Surface Water Resources: 2021

Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

- Public-use Airport
- +++++ Railroad
- Water Body
- River
- Municipal Boundary

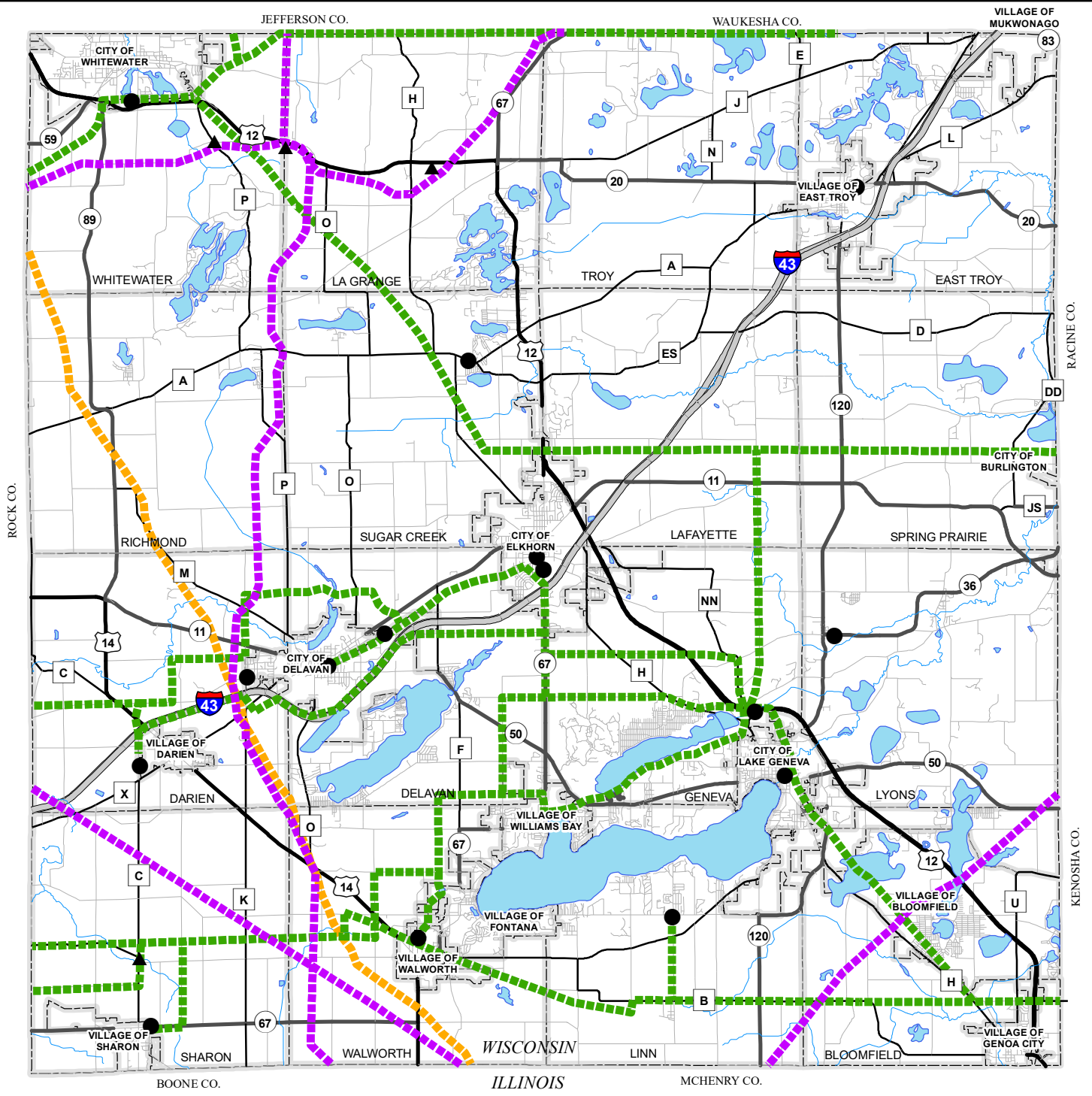
Source: Base map from Walworth County
Information Systems Department

0 2.5 5 Miles



Map 5 Public-use Airports and Railroads: 2021 Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

- Electric Substation
- ▲ Natural Gas Facility
- Crude Oil
- Electric Transmission
- Natural Gas Line
- Water Body
- River
- Municipal Boundary

Source: Base map from Walworth County
Information Systems Department

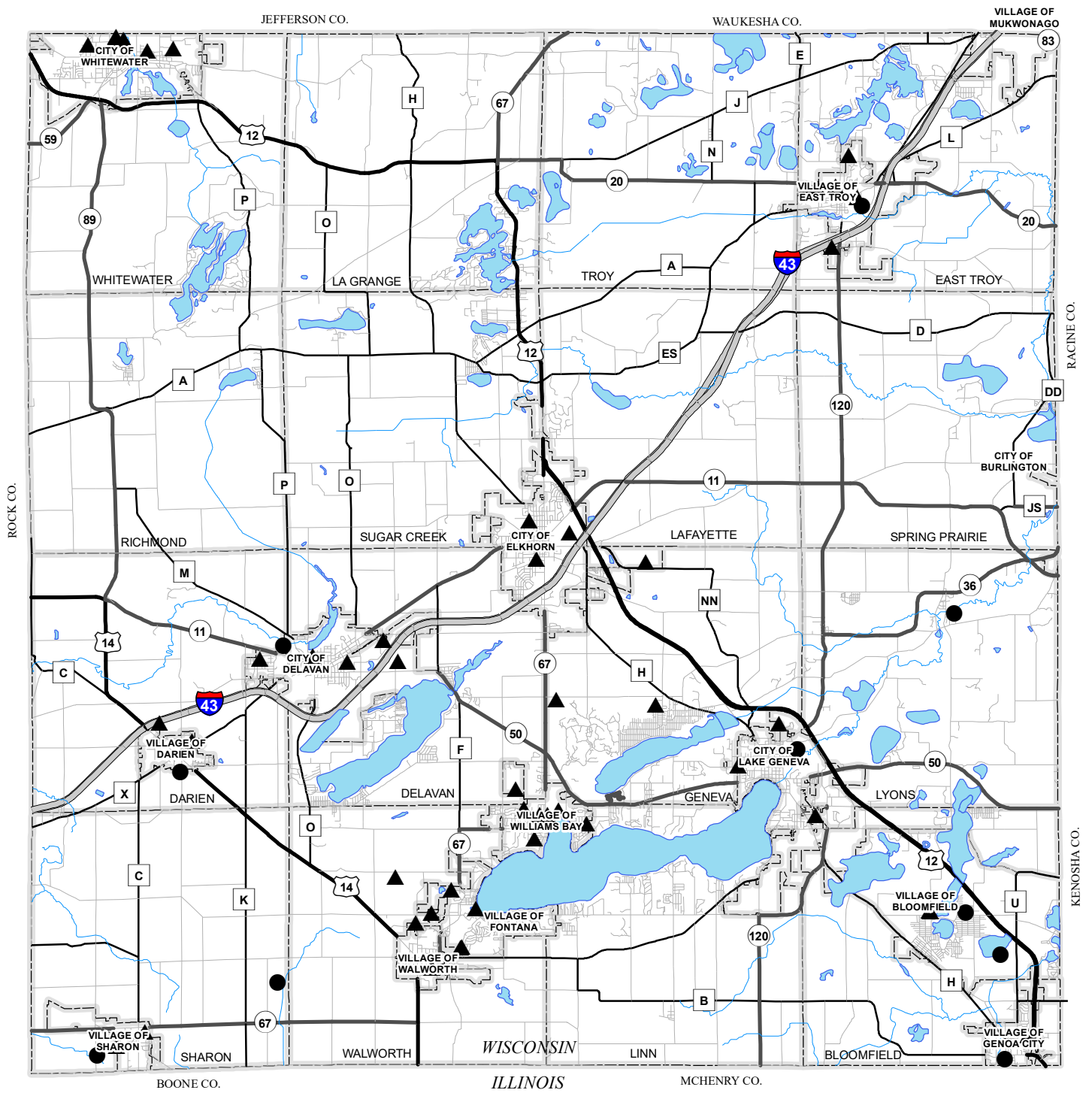
0 2.5 5 Miles



Map 7 Energy Facilities: 2021

Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

- Wastewater Facility
- ▲ Water Facility
- Water Body
- River
- Municipal Boundary

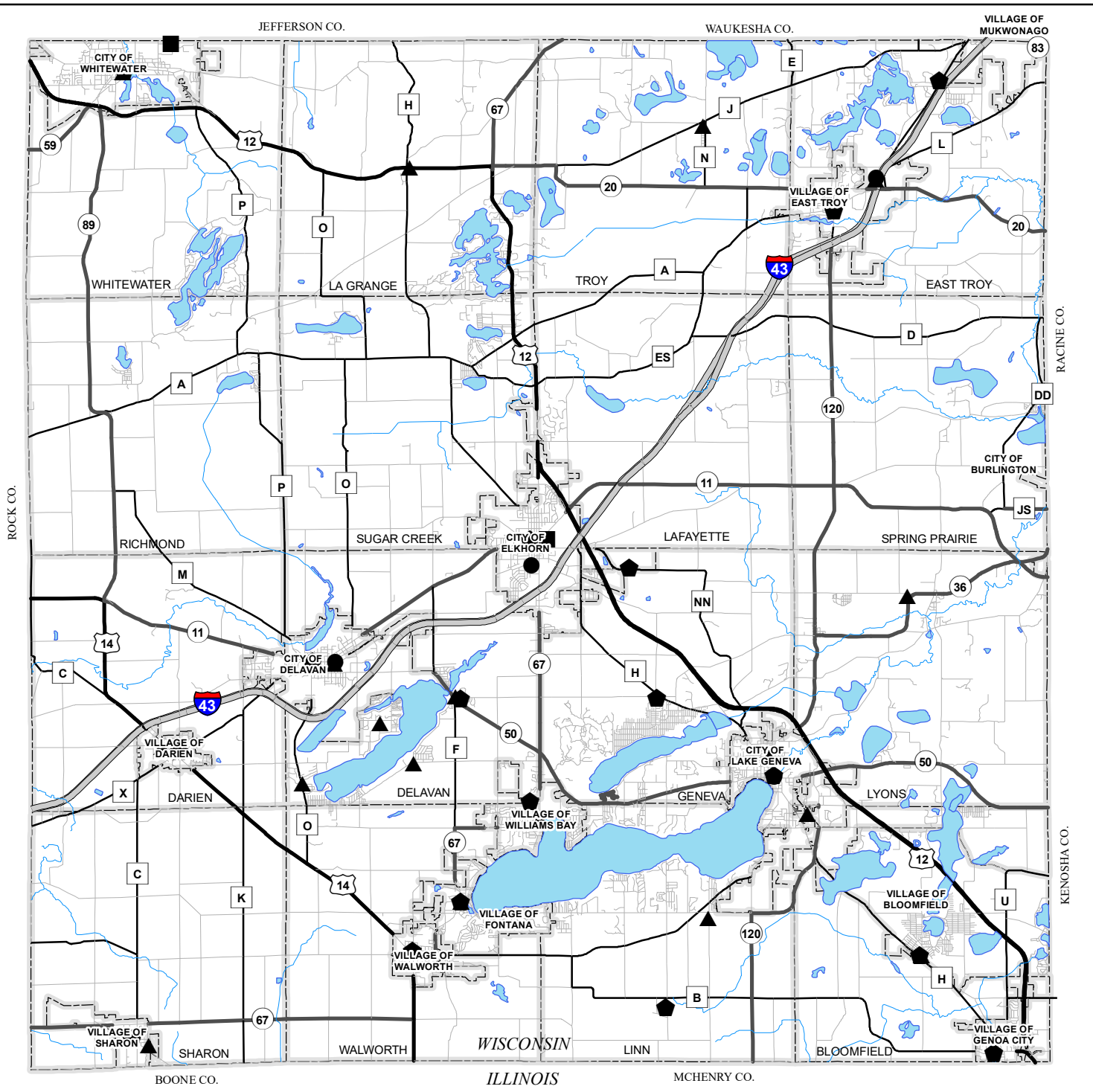
Source: Base map from Walworth County
Information Systems Department

0 2.5 5 Miles



Map 8 Public Water and Wastewater Facilities: 2021 Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

- EMS Facility
- ▲ Fire Department
- National Guard
- ⬠ Police Department
- Water Body
- River
- Municipal Boundary

Source: Base map from Walworth County
Information Systems Department

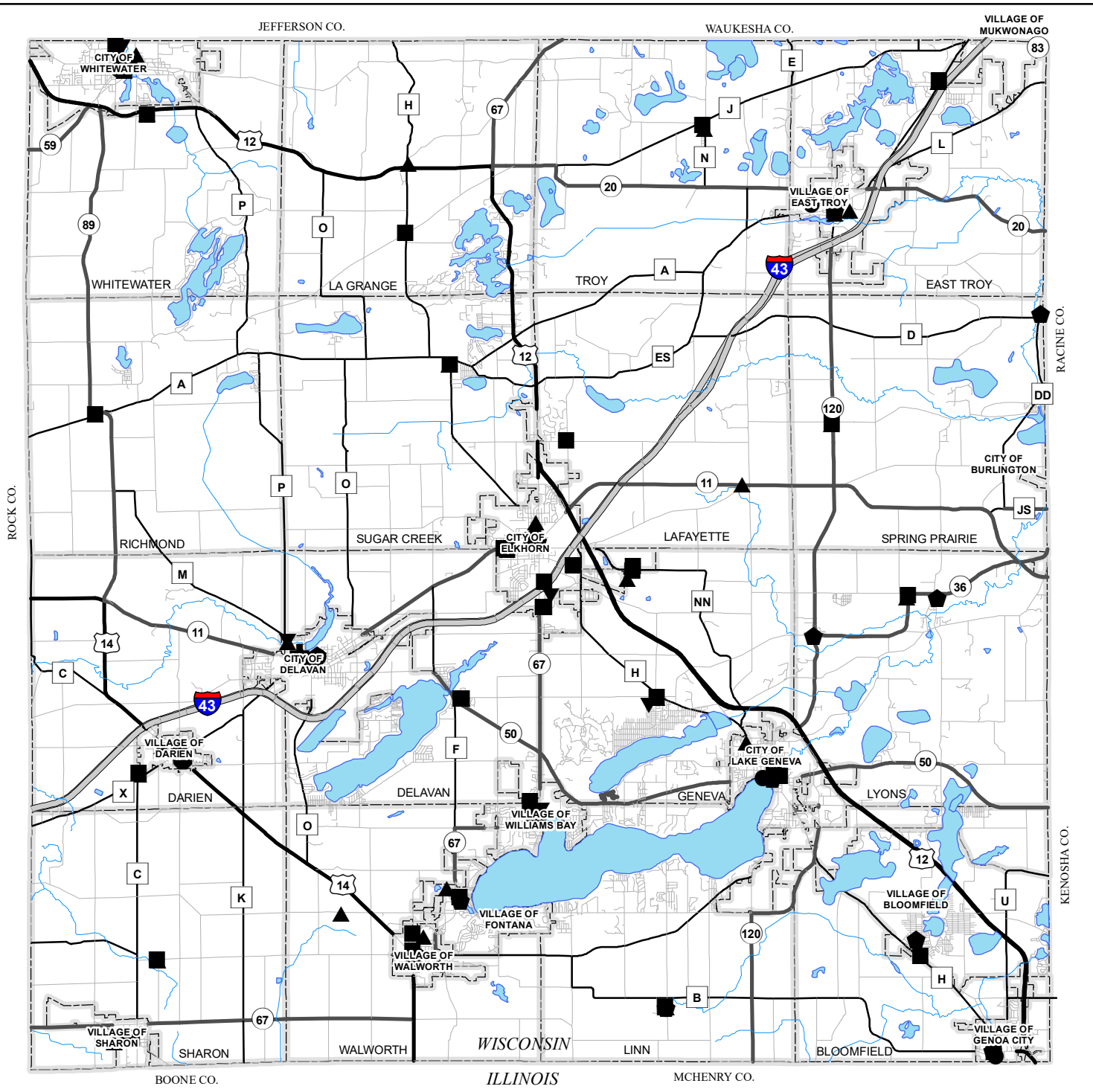
0 2.5 5 Miles



Map 9 Public Safety Facilities: 2021

Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

- Library
- ▲ Municipal garage
- Municipal office and other
- ◆ Post office
- Senior center
- ▼ Utility office/yard
- Water Body
- River
- Municipal Boundary

Source: Base map from Walworth County
Information Systems Department

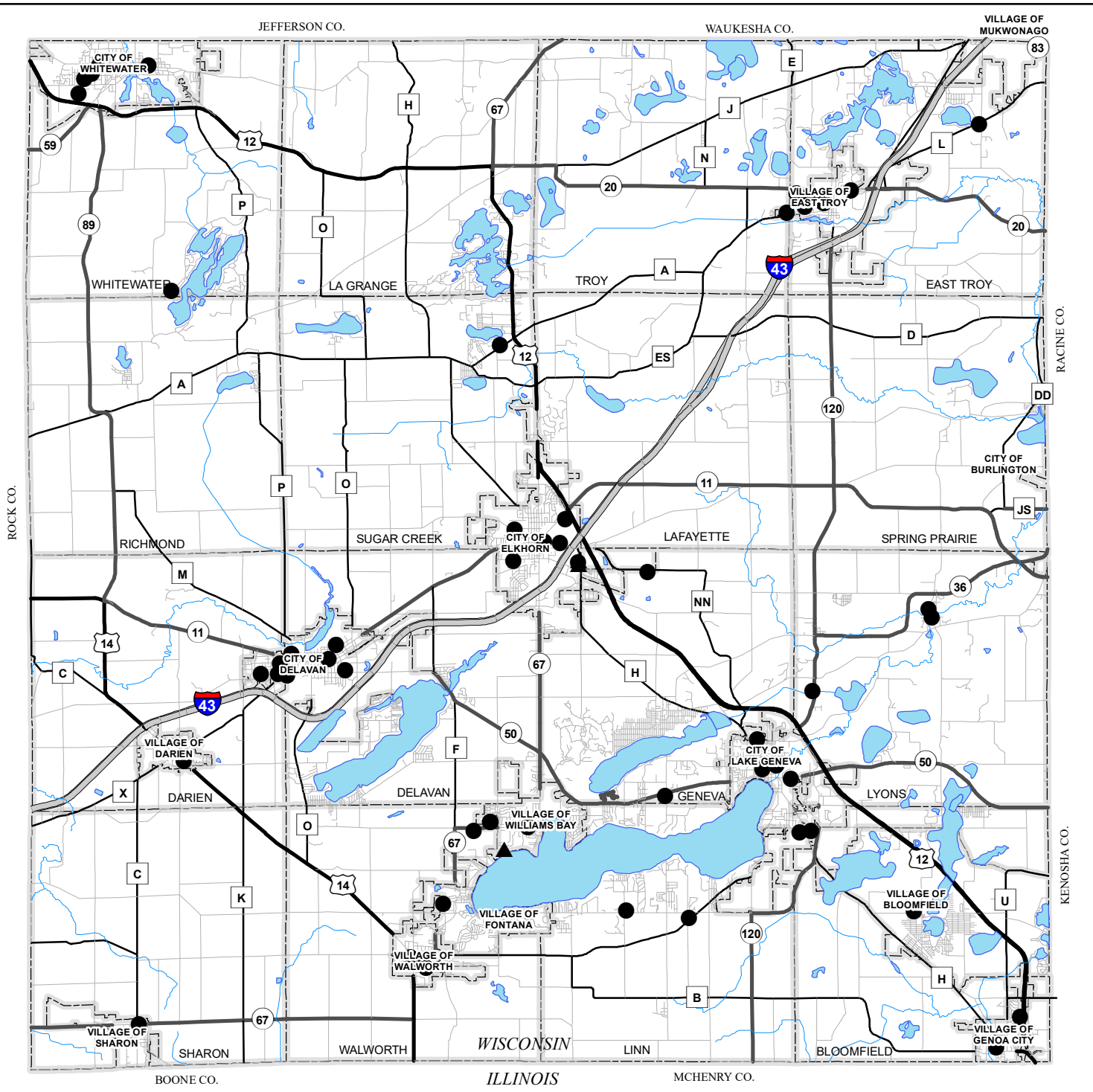
0 2.5 5 Miles



Map 10 Government Facilities: 2021

Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

- K-12
- ▲ Post-Secondary
- Water Body
- River
- Municipal Boundary

Source: Base map from Walworth County
Information Systems Department

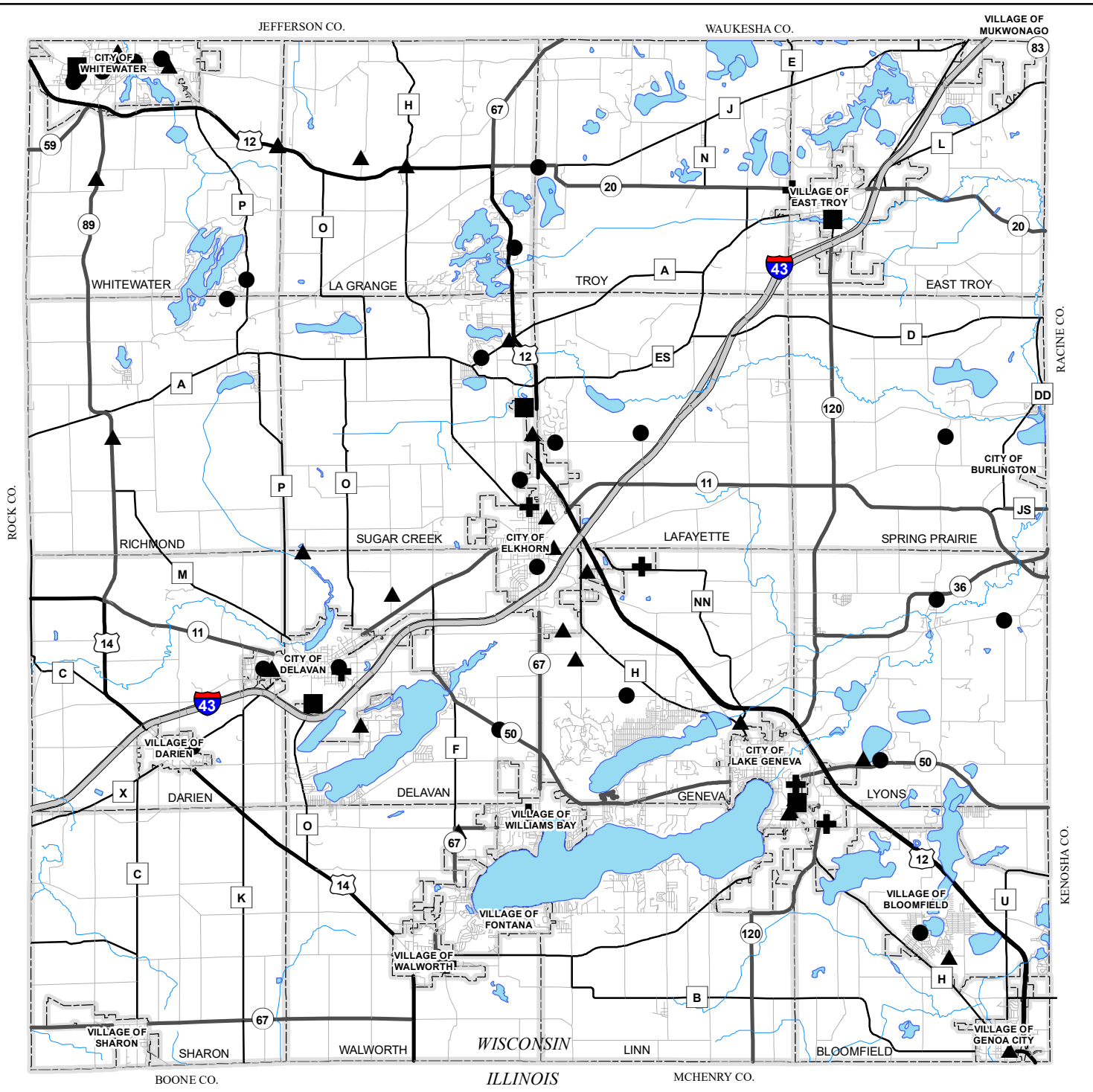
0 2.5 5 Miles



Map 11
Schools: 2021

Walworth County
Hazard
Mitigation Plan

CIVITEK
CONSULTING



Legend

- Adult family home (AFH)
- ▲ Community based residential facility (CBRF)
- ✚ Nursing home
- Residential care apartment complex (RCAC)
- Water Body
- River
- Municipal Boundary

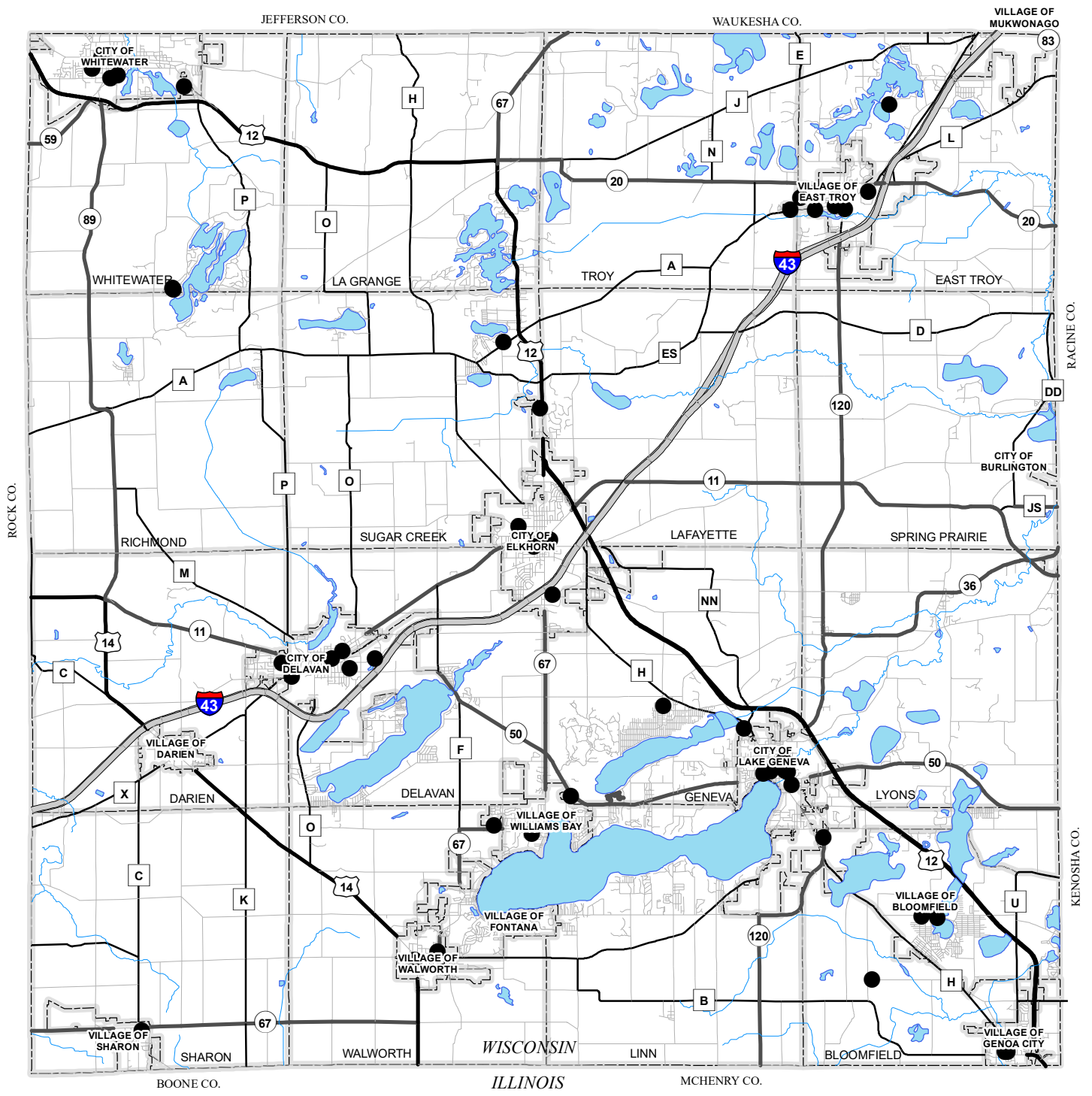
Source: Base map from Walworth County
Information Systems Department

0 2.5 5 Miles



Map 12 Special Care Residential Facilities: 2021 Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

- Group day care
- Water Body
- River
- Municipal Boundary

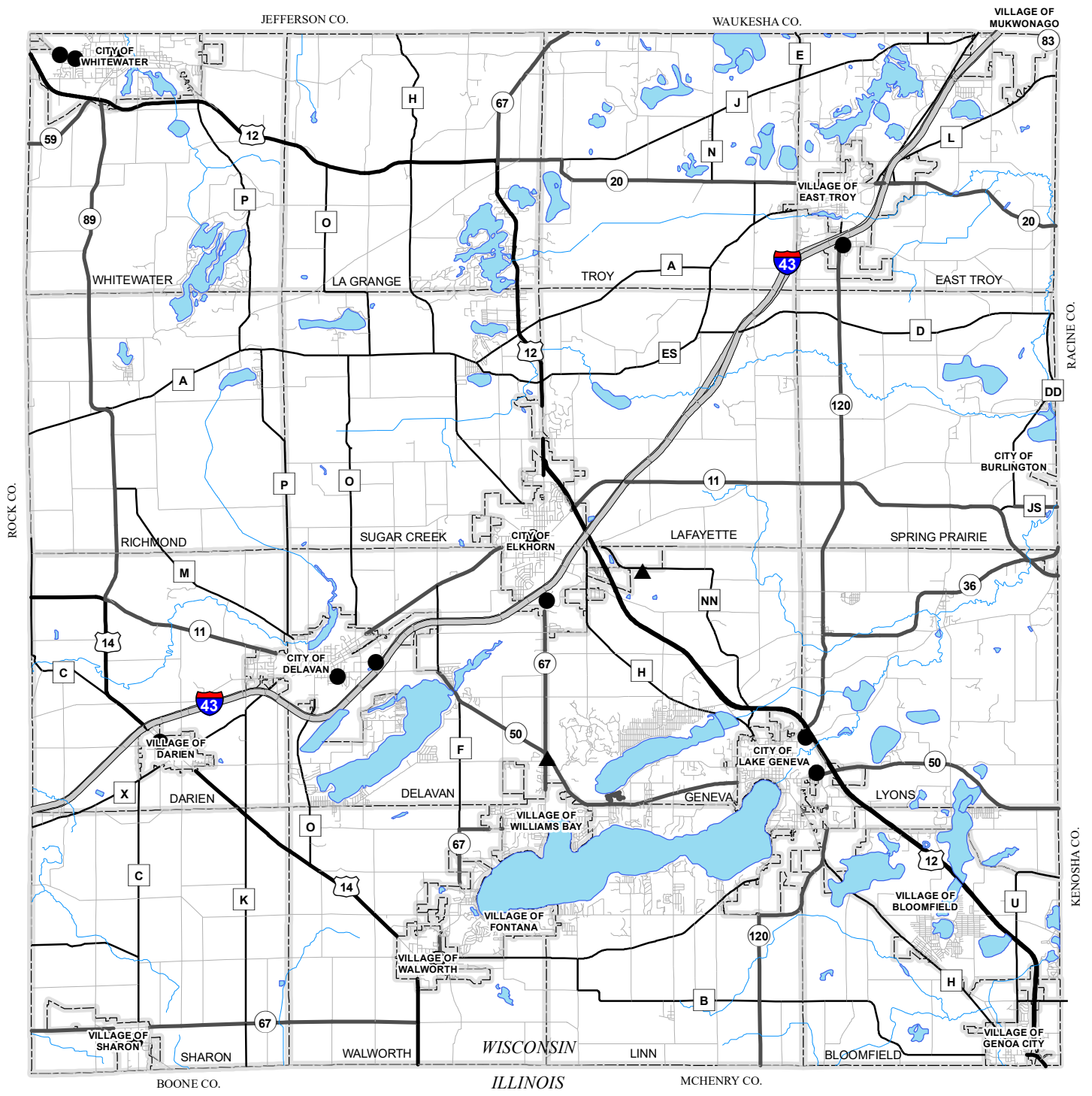
Source: Base map from Walworth County
Information Systems Department

0 2.5 5 Miles



Map 13 Special Care Non-Residential Facilities: 2021 Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

- Health care clinic
- ▲ Hospital
- Water Body
- River
- Municipal Boundary

Source: Base map from Walworth County
Information Systems Department

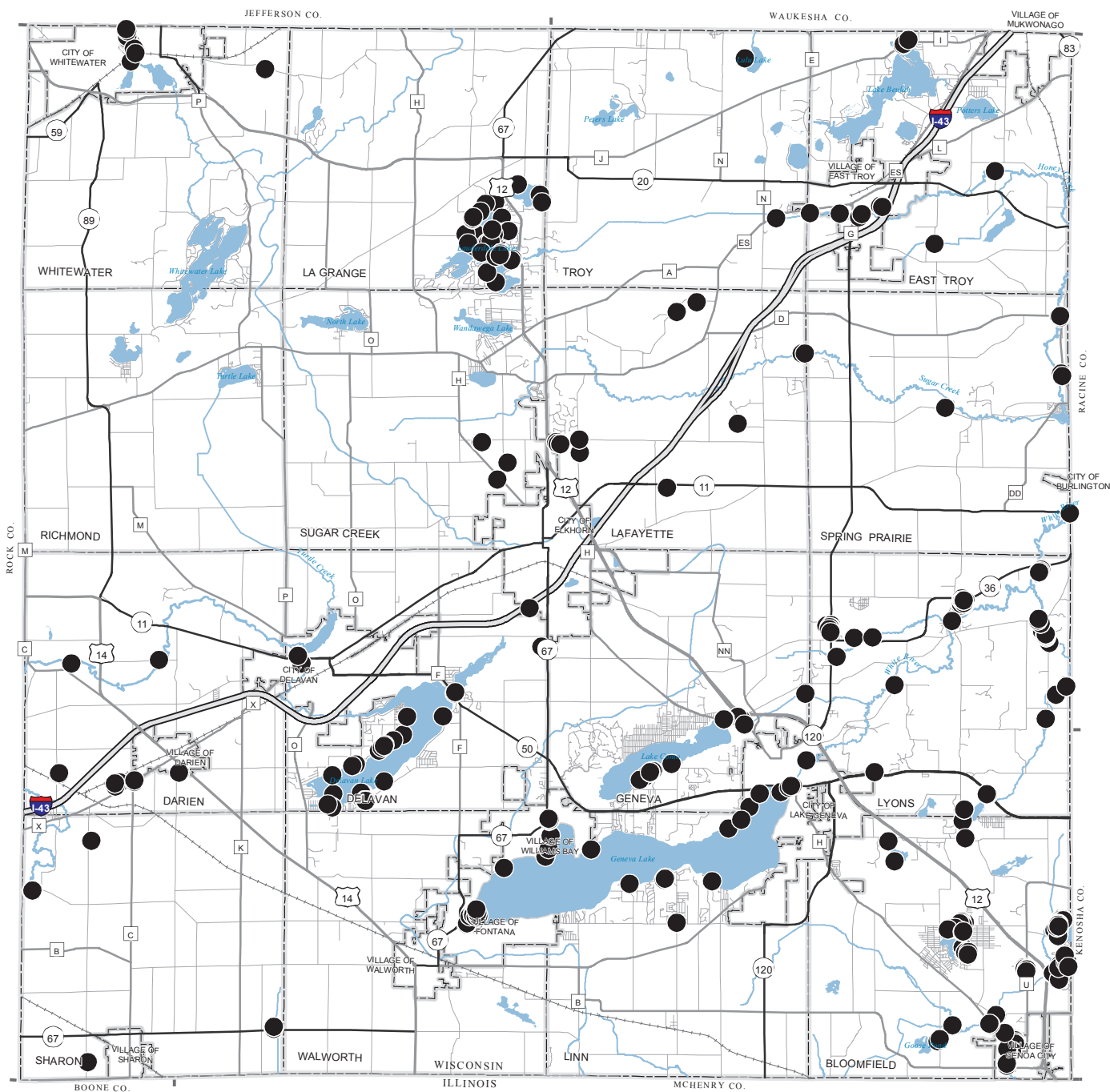
0 2.5 5 Miles



Map 14 Health care Facilities: 2021

Walworth County Hazard Mitigation Plan

CIVITEK
CONSULTING



Legend

● Structures in Floodplain

 Water Body

 River

 Municipal Boundary

Map 15 Structures in 100-Year Floodplain: 2008

Walworth County Hazard Mitigation Plan

civi  tek
CONSULTING LLC

 PDI

Source: Base map from Walworth County
Information Systems Department

0 1.25 2.5 5 Miles



PUBLIC PARTICIPATION DOCUMENTATION

Public participation plan - 2021	A-2
Sample of initial letter to jurisdictions regarding project	A-3
Sample of completed form for appointment of a point of contact	A-4
Municipal point of contacts	A-5
Steering Committee meeting agenda – June 17, 2021	A-6
Correspondence sent to the American Red Cross and adjoining counties	A-7
Sample of correspondence sent to the towns regarding review and comment on draft of the plan	A-8
Sample of correspondence sent to the cities and villages regarding review and comment on draft of plan	A-9
Sample of completed acknowledgement form	A-10
Walworth County Board Meeting Agenda - [REDACTED], 2022	A-11
Correspondence to Walworth County Planning Director regarding incorporating hazard mitigation plan into other planning efforts	A-12

Public Participation Plan (2021)
Walworth County Natural Hazards Mitigation Plan 5-Year Update

Working in concert with local municipalities, Walworth County has initiated a project to update the Walworth County hazard mitigation plan that was first adopted in 2009. The items listed below are the ways in which the County will facilitate public participation in the plan update.

- ♦ **Formation of a Steering Committee.** A steering committee will be established to guide the project and provide oversight and input. Members will include county officials and staff and local officials and representatives who wish to participate.
- ♦ **Public Notices for Steering Committee Meetings.** All Steering Committee meetings will be formally noticed and open to the public consistent with the state's open meeting law.
- ♦ **Local Government Involvement.** Each of the local governments in Walworth County will be contacted early in the process and informed about the project and asked to enter into a memorandum of understanding (MOU) with the County. Although the MOU would be non-binding, it would establish a framework for intergovernmental cooperation and coordination in terms of information sharing and give the jurisdiction the opportunity to also adopt the updated plan making it eligible for federal mitigation funding.
- ♦ **Local Jurisdiction Survey.** A set of maps, a listing of critical facilities in the jurisdiction, and a draft version of the assessment matrix used in the plan will be sent to each of the municipalities in the County. Local officials will have an opportunity to review and comment on the materials prepared up to that date.
- ♦ **Website.** Information about the project will be posted on the County's website, along with draft documents, maps, meeting notices and agendas, and project-related news.
- ♦ **Material Availability.** As various drafts are completed, copies will be sent to each of the local jurisdictions in Walworth County and other interested parties for review and comment.
- ♦ **Acknowledgement by municipalities.** Each of the cities and villages in the county will be sent a proposed copy of the plan along with a form they can use to acknowledge that they have reviewed the plan, and either recommend one or more revisions or accept the plan as drafted.
- ♦ **Public Hearing.** The Board of Supervisors will hold at least one public hearing to formally accept public comment on the proposed plan. Each of the cities and villages in the county will need to conduct separate public hearings to collect public input from within their particular jurisdiction.
- ♦ **Press Releases.** Press releases will be issued to the local media as necessary.
- ♦ **Other Means.** The County may provide other avenues for public participation and local government involvement during the course of the project.

The County Board adopted the above public participation plan on August 10, 2021, as Resolution No. 40-08/21

Sample of Initial Letter to Jurisdictions Regarding Project**Walworth County Sheriff Office
Emergency Management**

Daniel Schoonover, Chairperson
Town of Bloomfield
PO Box 609
Pell Lake, WI 53157

Subject: Update to Walworth County's Hazards Mitigation Plan

Dear Mr. Schoonover:

In 2008, Walworth County initiated an effort to prepare a multijurisdictional hazards mitigation plan consistent with the Disaster Mitigation Act of 2000. Walworth County and a number of cities and villages in the county adopted the plan in 2009.

The county recently received a federal grant to partially fund the preparation of a five-year update to that plan. We need the involvement of all of the towns, cities, and villages in this effort to make sure we address local issues and concerns. I hope that all of the cities and villages will adopt the updated plan, because doing so will allow them to qualify to apply for federal funding for hazard mitigation projects and activities.

If your jurisdiction would like to participate, complete the enclosed memorandum of understanding and appoint one person from your jurisdiction who will (1) verify the accuracy of a list of critical facilities that will be prepared for your jurisdiction, (2) review and comment on the draft plan, and (3) serve as a liaison during this 14-month project. If that individual would like to be more involved, he or she can also volunteer to serve on a steering committee that will have a direct role in overseeing the preparation of the plan.

I hope you can see the benefits (and low cost) of participating in this project. To participate, sign the enclosed memorandum and then appoint one person to represent your jurisdiction in the process. Please mail both of the completed forms in the enclosed stamped envelope to me by December 28, 2012.

The County Board has hired Civi Tek Consulting to help prepare the plan. If you should have any questions, you may contact me at (262) 741-4616 or jennis@co.walworth.wi.us.

Additional information is posted online at www.co.walworth.wi.us/Sheriffs%20Office/Emergency%20Management/MitigationPlan.aspx.

Sincerely,
Walworth County Emergency Management

Lieutenant John Ennis, Director

cc: Cynthia Howard, Town Clerk; PO Box 609; Pell Lake, WI 53157

Sample of Completed Form for Appointment of Point of Contact

Appointment of Local Representative

Walworth County Hazards Mitigation Plan Update

City of Delavan, (name of jurisdiction) hereby appoints the person identified below to assist in the preparation and review of a hazards mitigation plan for Walworth County. The appointee understands that he or she will be asked to (1) verify the accuracy of a list of critical facilities that will be prepared for your jurisdiction, (2) review and comment on the draft plan, and (3) serve as a liaison – no meetings are anticipated.

If the appointee wishes, he or she may also volunteer to serve on a steering committee that is responsible for overseeing the preparation of the plan update – one meeting is anticipated. To do so, check the box.

☐ Yes, this person is willing to serve on the steering committee.

Name: Tim O'Neill

Title (if an elected official or employee): Fire Chief

Address: P.O. Box 465

City: Delavan, WI Zip code: 53115

Daytime telephone number: 262 728 5644

Evening telephone number: 262 949 6525

Email address (if any): fdchief@ci.delavan.wi.us

Please complete this form and the memorandum of understanding and send them to John Ennis by September 22, 2020 via email at jennis@co.walworth.wi.us or at the address listed below.

Lieutenant John Ennis, Director
Walworth County Emergency Management
PO Box 1004
Elkhorn, WI 53121

Municipal Point of Contacts

Municipality	Point of Contact
Town	
Bloomfield	Lloyd D. Cole, Chief of Police
Darien	Robert Williams, Public Works Supervisor
Delavan	Raymond Clark, Chief of Police
East Troy	Donald Teubel
Geneva	Joseph Kopecky, Town Chairman*
La Grange	Frank Taylor, Town Chairman
Lafayette	Jason Collins, Town Supervisor
Linn	James Bushey, Chief of Police
Lyons	Bill Mangold, Town Chairman*
Richmond	Jeff Karbash, Town Chairman*
Sharon	Richard Brandl, Town Chairman*
Spring Prairie	Tom Bolfert, Town Supervisor*
Sugar Creek	Dale Wuttke, Town Chairman
Troy	Thomas Lorden, Town Supervisor
Walworth	Steve Santeler, Town Supervisor
Whitewater	Lowell Hagen, Town Chairman
Village	
Bloomfield	Bill Holder, Village Trustee
Darien	Chuck Kaufenberg, Village Trustee
East Troy	Jeremy Swendrowski, Chief of Police
Fontana-on-Geneva Lake	Jeff Cates, Police Chief
Genoa City	Bill Antti, Village President*
Mukwonago	Jeff Stein, Fire Chief
Sharon	Mark Ruosch, Village President*
Walworth	Joan Sallee, Village Trustee
Williams Bay	Justin Timm, Chief of Police
City	
Burlington	--
Delavan	Tim O'Neill, Chief of Police
Elkhorn	Bruce Lechner, Mayor*
Lake Geneva	Charlene Klein, Mayor*
Whitewater	Todd Lindert, EM Coordinator

Steering Committee Meeting Agenda – June 17, 2021**AGENDA****Walworth County
Hazard Mitigation Plan Update Steering Committee**

June 17, 2021, 3:00 pm

This is an Online Meeting

Direct link: <https://jcmicollab01.co.walworth.wi.us/call/0675173>

Dial in: (262) 741-7851 Extension: 7851

Access code: 0675173

1. Introductions
2. Certification of compliance with open meetings law
3. Public comment
4. Project description – What is a hazard mitigation plan?
5. Role of steering committee
6. Project timeline
7. Prioritize hazards in terms of importance
8. Review mitigation strategies
9. Feedback and questions
10. Set date and time for next meeting (if needed)
11. Adjourn

Note: The public may participate in this meeting and provide comment as set forth above.

Correspondence Sent to the American Red Cross and Adjoining Counties

Forthcoming

Sample of Correspondence Sent to the Towns Regarding Review and Comment on Draft of the Plan

Forthcoming

**Sample of Correspondence Sent to the Cities and Villages Regarding
Review and Comment on Draft of Plan**

Forthcoming

Sample of Completed Acknowledgement Form

Acknowledgement Letter

Walworth County Hazard Mitigation Plan Update

On behalf of the Town / City Village of Darien, I hereby acknowledge that I have reviewed the materials referenced below as set forth in the draft plan.

Table 5-24 on page 5-35

- ☒ No changes are needed
☐ Please make changes based on the information described below.

Table 6-8 on page 6-14

- ☐ No changes are needed
☒ Please make changes based on the information described below.

Goals, objectives, policies, and action items (page 6-17 through 6-26)

- ☒ No changes are needed
☐ Please make changes based on the information described below.

Other revisions

- ☐ None
☒ Please make changes based on the information described below.

Name: Lindsey Peterson

Title: Administrator/Clerk-Treasurer

Signature: Lindsey Peterson

Daytime telephone: 262-882-5055

Email: lpeterson@darienwi.com

Comments: (Attach additional pages if necessary.)

Please update Table 6-8 Summary of Staff Capabilities:
 Village of Darien: Administrator-Yes, Community
 Planner-Contracted.

In response to Pgs 6-20, item #29-Village of Darien has
 the construction of an overflow pipe for The Ponds
 Storm Water Pond included in the 2023 Capital
 Improvement Plan with a cost of \$125,000. A specific
 funding source for this project has not yet been
 identified.

Walworth County Board Meeting Agenda – __ 2022

Forthcoming

**Correspondence to Walworth County Planning Director Regarding Incorporating
Hazard Mitigation Plan into Other Planning Efforts**

Forthcoming

ADOPTION RESOLUTIONS FOR 2022 PLAN UPDATE

Walworth County	B-2
City of Delevan	B-3
City of Elkhorn	B-4
City of Lake Geneva	B-5
City of Whitewater	B-6
Village of Bloomfield	B-7
Village of Darien	B-8
Village of East Troy	B-9
Village of Fontana on Geneva Lake	B-10
Village of Genoa City	B-11
Village of Sharon	B-12
Village of Walworth	B-13
Village of Williams Bay	B-14

Walworth County
forthcoming

City of Delevan
forthcoming

City of Elkhorn

forthcoming

City of Lake Geneva

forthcoming

City of Whitewater

forthcoming

Village of Bloomfield

forthcoming

Village of Darien

forthcoming

Village of East Troy

forthcoming

Village of Fontana on Geneva Lake

forthcoming

Village of Genoa City

forthcoming

Village of Sharon

forthcoming

Village of Walworth

forthcoming

Village of Williams Bay

forthcoming

CERTIFICATION LETTERS

Initial Certification C-2

First 5-Year Update C-3

Second 5-Year Update C-4

Initial Certification

STATE OF WISCONSIN \ DEPARTMENT OF MILITARY AFFAIRS
WISCONSIN EMERGENCY MANAGEMENT2400 WRIGHT STREET
P.O. BOX 7865
MADISON, WISCONSIN 53707-7865

July 30, 2009

Lt. Kevin Williams
Walworth County Emergency Management
1770 County Rd. NN
Elkhorn, WI 53121

Dear Mr. Williams:

It gives me great pleasure to advise that the *Walworth County Hazards Mitigation Plan* has officially been approved by the Federal Emergency Management Agency. The plan complies with the requirements of the Disaster Mitigation Act of 2000. The County and participating jurisdictions are eligible to apply for funding through the Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, the Flood Mitigation Assistance Program, and the Repetitive Flood Claims Program through July 7, 2014, for projects identified in the Plan. Per the regulations, the Plan is required to be updated and resubmitted for approval every five years to remain eligible for mitigation funding.

The attached Local Hazard Mitigation Plan Review Crosswalk includes recommended revisions for the five-year update.

Congratulations on the approval of the plan. I also want to commend the County for its commitment to mitigation and reducing future disaster losses, and I look forward to working with you in the future.

If you have any questions, please feel free to call me at 608-242-3211.

Sincerely,

ROXANNE K. GRAY
State Hazard Mitigation Officer
Wisconsin Division of Emergency Managementcc Paul France, Regional Emergency Management Director
Tim Schwecke, Civi Tek Consulting

TELEPHONE (608) 242-3232 FACSIMILE (608) 242-3247 24-HOUR EMERGENCY HOTLINE 1-800-943-0003

First 5-Year Update

MAR 26 2015

U.S. Department of Homeland Security
Region V
536 S. Clark St., 6th Floor
Chicago, IL 60605-1509



FEMA

Ms. Katie Sommers
State Hazard Mitigation Officer
Wisconsin Emergency Management
2400 Wright Street, P.O. Box 7865
Madison, WI 53707-7865

Dear Ms. Sommers:

Thank you for submitting the adoption documentation for the Walworth County Hazard Mitigation Plan. The plan was reviewed based on the local plan criteria contained in 44 CFR Part 201, as authorized by the Disaster Mitigation Act of 2000. Walworth County met the required criteria for a multi-jurisdiction hazard mitigation plan and the plan is now approved for the County; the cities of Delevan, Elkhorn, Lake Geneva, and Whitewater; and the villages of Bloomfield, Darien, East Troy, Fontana on Geneva Lake, Genoa City, Sharon, Walworth, and Williams Bay. Please submit the adoption resolutions for any remaining jurisdictions who participated in the planning process.

The approval of this plan ensures continued availability of the full complement of Hazard Mitigation Assistance (HMA) Grants. All requests for funding, however, will be evaluated individually according to the specific eligibility and other requirements of the particular program under which the application is submitted.

We encourage Walworth County to follow the plan's schedule for monitoring and updating the plan, and continue their efforts to implement the mitigation measures. The expiration date of the Walworth County Plan is five years from the date of this letter. In order to continue project grant eligibility, the plan must be reviewed, revised as appropriate, resubmitted, and approved no later than the plan expiration date.

Please pass on our congratulations to Walworth County for this significant action. If you or the communities have any questions, please contact Rebecca Leitschuh at (312) 408-4421 or Rebecca.Leitschuh@fema.dhs.gov.

Sincerely,

/s/ Christine Stack, Director
Mitigation Division

www.fema.gov

Second 5-Year Update

forthcoming

HISTORY OF ADOPTION AND AMENDMENT

Date of Action	Reference Number	Description of Action
2022 Plan		
[REDACTED], 2022	[REDACTED]	Walworth County Board adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	City of Delevan adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	City of Elkhorn adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	City of Lake Geneva adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	City of Whitewater adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	Village of Bloomfield adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	Village of Darien adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	Village of East Troy adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	Village of Fontana on Geneva Lake adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	Village of Genoa City adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	Village of Sharon adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	Village of Walworth adopted the countywide hazard mitigation plan update
[REDACTED], 2022	[REDACTED]	Village of Williams Bay adopted the countywide hazard mitigation plan update
2014 Plan		
January 13, 2015	51-12/14	Walworth County Board adopted the countywide hazard mitigation plan update
December 9, 2015	R-643	City of Delevan adopted the countywide hazard mitigation plan update
March 2, 2015	15-04	City of Elkhorn adopted the countywide hazard mitigation plan update
December 8, 2014	14-R49	City of Lake Geneva adopted the countywide hazard mitigation plan update
December 2, 2014	None	City of Whitewater adopted the countywide hazard mitigation plan update
December 14, 2014	2014-R-41	Village of Bloomfield adopted the countywide hazard mitigation plan update
November 17, 2014	14-09	Village of Darien adopted the countywide hazard mitigation plan update
November 3, 2014	2014-12	Village of East Troy adopted the countywide hazard mitigation plan update
November 3, 2014	11-03-14-01	Village of Fontana on Geneva Lake adopted the countywide hazard mitigation plan update
November 13, 2014	11-13-2014	Village of Genoa City adopted the countywide hazard mitigation plan update
December 9, 2014	12-09-14-153	Village of Sharon adopted the countywide hazard mitigation plan update
December 8, 2014	2014-5	Village of Walworth adopted the countywide hazard mitigation plan update
November 17, 2014	R-6-14	Village of Williams Bay adopted the countywide hazard mitigation plan update
2009 Plan		
April 21, 2009	03 – 04/09	Walworth County Board adopted the countywide hazard mitigation plan
April 27, 2009	09-R12	City of Lake Geneva adopted the countywide natural hazards mitigation plan
May 5, 2009	--	City of Whitewater adopted the countywide natural hazards mitigation plan
May 16, 2009	9-2009	Village of East Troy adopted the countywide natural hazards mitigation plan

CRITICAL FACILITIES SORTED BY TYPE: 2021

Jurisdiction	Facility Name	Address
Adult day care (ADC)		
City of Whitewater	Glen Adult Day Care	1281 W Main Street
City of Elkhorn	Pleasant Street Country Day	329 N Wisconsin Street
City of Elkhorn	VIP Services	811 E Geneva
Adult family home (AFH)		
Town of La Grange	Amanda Lindner Adult Family Care	W5069 Farm Village
City of Elkhorn	Arbor House	W5428 County Road A
City of Whitewater	Carrie's Home	1234 W Melrose
City of Whitewater	Chris Home	424 S Pleasant St
City of Elkhorn	Community Living Arrangements - Court	298 W Court Street
Town of La Grange	Community Living Arrangements - Dunbar	W4911 Mallard Drive
City of Elkhorn	Community Living Arrangements - Prescott	13 Prescott Street
Town of Linn	Country Joy	N501 Zenda Road
City of Whitewater	Debbie's House	241 N Queen Street
Town of Lyons	Geneva Territory	6582 Lakeside Road
Town of La Grange	Heart Prairie Way	W6359 Territorial Road
City of Whitewater	Jennie's Place	213 S Whiton Street
Town of Lafayette	Jodis Home	W3928 Potter Road
Village of Sharon	Johnson House	216 Martin Street
Town of Richmond	Kindred Hearts Family Home	N7227 Woodfield Lane
City of Whitewater	Koller House (The)	216 S Summit Street
Town of Bloomfield	Lincoln Street Adult Family Home	N2465 Lincoln Drive
Town of Delavan	Mabry Adult Family Home	7980 Summit Drive
Town of Troy	Mackenzie Adult Family Home	W4855 State Road 20
Town of Whitewater	Opal House	N9633 Howard Road
Village of Darien	P & J Assisted Living	125 E Beloit Street
Town of Geneva	Palmer Road Adult Family Home	W4080 Palmer Road
Town of Delavan	Pease Adult Family Home	5281 State Road 50
City of Whitewater	Riverwood Adult Family Home	204 N Jefferson Street
City of Lake Geneva	Sky Lane Home	109 Sky Lane
City of Delavan	Steven's Hope and Love	317 Butternut Drive
City of Whitewater	Stone Ridge Adult Family Home	204 N Jefferson
Village of Walworth	Valeries Home	208 Madison Street

Jurisdiction	Facility Name	Address
City of Delavan	Voskull Adult Family Home	337 Bradley Avenue
Village of Genoa City	We're Just Like Family	W1313 Bernice Road
Town of Whitewater	White Pines	N7453 CTH P
Bridge		
Town of Delavan	Bridge - Delavan Lake	STH 50
Town of Troy	Bridge over Honey Creek	CTH ES
Town of Whitewater	Bridge over Bluff Creek	CTH P
Town of Geneva	Bridge over Como Creek	US 12
Town of Geneva	Bridge over Como Creek	CTH H
Town of Geneva	Bridge over Como Creek	Point
Town of Lyons	Bridge over Como Creek	STH 120
Town of Bloomfield	Bridge over East Branch Nippersink Creek	US 12
Town of Bloomfield	Bridge over East Branch Nippersink Creek	CTH F
Town of Bloomfield	Bridge over East Branch Nippersink Creek	CTH U
Town of East Troy	Bridge over Honey Creek	US Highway 20
Town of Spring Prairie	Bridge over Honey Creek	CTH D
Town of Lyons	Bridge over Ivanhoe Creek	STH 50
City of Elkhorn	Bridge over Jackson Creek	S Lincoln Street (STH 67)
Town of Bloomfield	Bridge over North Branch Nippersink Creek	CTH H
Town of Bloomfield	Bridge over North Branch Nippersink Creek	CTH B
Village of Genoa City	Bridge over North Branch Nippersink Creek	Main Street (CTH B)
Town of Lyons	Bridge over Ore Creek	STH 120
Town of Lyons	Bridge over Ore Creek	STH 36
Town of Lyons	Bridge over Ore Creek	STH 36
Town of Sharon	Bridge over Piscasaw	STH 67
Town of East Troy	Bridge over Spring Creek	US Highway 20
Town of Lafayette	Bridge over Sugar Creek	I-43 (north bound)
Town of Lafayette	Bridge over Sugar Creek	I-43 (south bound)
Town of Lafayette	Bridge over Sugar Creek	CTH ES
Town of Spring Prairie	Bridge over Sugar Creek	STH 120
Town of Sugar Creek	Bridge over Sugar Creek	CTH H
Town of Sugar Creek	Bridge over Sugar Creek	CTH ES
Town of Delavan	Bridge over Swan Creek	CTH O
Town of Darien	Bridge over Turtle Creek	STH 11

Jurisdiction	Facility Name	Address
Town of Darien	Bridge over Turtle Creek	STH 89 US 14
Town of Darien	Bridge over Turtle Creek	CTH C
Town of Delavan	Bridge over Turtle Creek	CTH P
City of Delavan	Bridge over unnamed creek	Richmond Street
City of Delavan	Bridge over unnamed creek	Richmond Street
City of Delavan	Bridge over unnamed creek	W Walworth Avenue (STH 11)
City of Elkhorn	Bridge over unnamed creek	S Lincoln Street (STH 67)
City of Elkhorn	Bridge over unnamed creek	STH 12 STH 67
City of Lake Geneva	Bridge over unnamed creek	Main Street (STH 50)
City of Lake Geneva	Bridge over unnamed creek	Main Street (STH 50)
City of Whitewater	Bridge over unnamed creek	US Highway 59
City of Whitewater	Bridge over unnamed creek	E Main Street
Town of Bloomfield	Bridge over unnamed creek	US 12
Town of Bloomfield	Bridge over unnamed creek	CTH U
Town of Darien	Bridge over unnamed creek	I-43
Town of Darien	Bridge over unnamed creek	CTH X
Town of Darien	Bridge over unnamed creek	CTH C
Town of Darien	Bridge over unnamed creek	I-43
Town of Darien	Bridge over unnamed creek	CTH C (Foundry Road)
Town of Delavan	Bridge over unnamed creek	CTH O
Town of Delavan	Bridge over unnamed creek	I-43
Town of Delavan	Bridge over unnamed creek	I-43
Town of East Troy	Bridge over unnamed creek	CTH L
Town of Geneva	Bridge over unnamed creek	CTH H
Town of Geneva	Bridge over unnamed creek	CTH H
Town of Geneva	Bridge over unnamed creek	US 12
Town of Geneva	Bridge over unnamed creek	US 12
Town of Geneva	Bridge over unnamed creek	CTH NN
Town of La Grange	Bridge over unnamed creek	STH 12
Town of Lafayette	Bridge over unnamed creek	I-43
Town of Lafayette	Bridge over unnamed creek	I-43
Town of Lafayette	Bridge over unnamed creek	STH 11
Town of Linn	Bridge over unnamed creek	CTH B
Town of Linn	Bridge over unnamed creek	CTH B

Jurisdiction	Facility Name	Address
Town of Linn	Bridge over unnamed creek	STH 120
Town of Linn	Bridge over unnamed creek	CTH B
Town of Lyons	Bridge over unnamed creek	STH 50
Town of Lyons	Bridge over unnamed creek	STH 36
Town of Lyons	Bridge over unnamed creek	STH 36
Town of Lyons	Bridge over unnamed creek	STH 36
Town of Sharon	Bridge over unnamed creek	CTH X
Town of Sharon	Bridge over unnamed creek	CTH B
Town of Sharon	Bridge over unnamed creek	CTH C
Town of Sharon	Bridge over unnamed creek	CTH K
Town of Sharon	Bridge over unnamed creek	CTH O
Town of Sharon	Bridge over unnamed creek	CTH B
Town of Sharon	Bridge over unnamed creek	CTH B
Town of Spring Prairie	Bridge over unnamed creek	CTH DD
Town of Spring Prairie	Bridge over unnamed creek	STH 120
Town of Spring Prairie	Bridge over unnamed creek	CTH DD
Town of Spring Prairie	Bridge over unnamed creek	STH 120
Town of Spring Prairie	Bridge over unnamed creek	STH 11
Town of Spring Prairie	Bridge over unnamed creek	STH 120
Town of Sugar Creek	Bridge over unnamed creek	STH 12 67
Town of Whitewater	Bridge over unnamed creek	STH 89
Village of Darien	Bridge over unnamed creek	W Beloit Street (CTH X)
Village of East Troy	Bridge over unnamed creek	I-43 (north bound)
Village of East Troy	Bridge over unnamed creek	I-43 (south bound)
Village of East Troy	Bridge over unnamed creek	Church Street (CTH G)
Town of Linn	Bridge over West Branch Nippersink Creek	STH 120
Town of Lyons	Bridge over White River	STH 36
Town of Spring Prairie	Bridge over White River	STH 11
Town of Whitewater	Bridge over Whitewater Creek	US Highway 59
Campground		
Town of Troy	Alice Chester Center	N8651 Town Line Road
City of Lake Geneva	Bigfoot Beach State Park (Wis DNR)	1550 S Lake Shore Dr
Town of East Troy	Camp Charles Allis	W2035 Beulah Heights Road
Town of East Troy	Camp Edwards YMCA	N8901 Army Lake Road

Jurisdiction	Facility Name	Address
Town of Whitewater	Camp Joy	W7725 Kettle Moraine Drive
Village of Williams Bay	Conference Point Camp	300 Conference Point Road
Town of Whitewater	Hickory Woods Group Camp	Hi-Lo Road
Village of Williams Bay	Holiday Home Camp	Holiday Avenue
Town of Richmond	McIntyres Resort	N6471 Milwaukee Road
Village of Williams Bay	Norman B. Barr Camp	483 Outing Street
Town of Richmond	Scenic Ridge Campground	W7991 R&W Townline Road
Town of Richmond	Snug Harbor Inn Campground on Turtle Lake	W7785 Wisconsin Parkway
Town of Troy	Timber Lee Christian Center	N8705 Scout Road
Town of Whitewater	Whitewater Lakes-East (Wis DNR)	N8096 Hi-Lo Road
Town of Whitewater	Whitewater Lakes-West (Wis DNR)	N8095 Hi-Lo Road
Town of Sugar Creek	Willow Run RV Condo Association	W4945 County Road ES
Community based residential facility (CBRF)		
Town of Lyons	Artisan Lake Geneva	6722 Highway 50 East
City of Lake Geneva	Boulevard Manor	945 Lake Geneva Boulevard
Village of Genoa City	Burr Oak Manor	264 Walworth Street
Town of Bloomfield	Casa Mia Care Center	W1043 Rosewood Road
Town of Delavan	Cobblestones	4492 Cobblestone Road
Town of La Grange	Country Home	N8525 Highway H
Town of La Grange	Fair View	W5903 STH 12
City of Whitewater	Fairhaven Retirement Community	435 W Starin Road
Village of Genoa City	Genoa City Retirement Home	1201 County Road H
Village of Walworth	Golden Years Assisted Living Residence	270 Ridge Road
City of Whitewater	Hearthstone Memory Care	426 W North Street
Town of Whitewater	Hidden View	N8425 STH 89
Town of Walworth	Inspiration Ministries	N2270 Highway 67
City of Whitewater	Jade House	1541 W Walworth Avenue
Town of Sugar Creek	Just Like Home IV	W5140 County Road A
Town of La Grange	Kettle View	N8603 Duffin Road
City of Elkhorn	Kimberly Lane CBRF	416 Kimberly Lane
City of Elkhorn	Kindred Hearts of Elkhorn	450 E Geneva Street
Town of Bloomfield	Lakeside Woodland Home	W913 Washington Avenue
City of Lake Geneva	Laura's Home	945 Lake Geneva Boulevard
Town of Geneva	New Life Lodge	N3155 County Road H

Jurisdiction	Facility Name	Address
City of Whitewater	Our House Senior Living	945 E Chicago Street
Town of Geneva	Pinecrest of Lake Geneva	N3367 County Road NN
Village of Darien	Pleasant Villa for Seniors LLC	315 W Beloit Street
Town of Geneva	Prairie View Home	W4080 Palmer Road
Town of Geneva	Prairie View Home II	N3445 CTH NN
City of Delavan	Prairie Village North	311 Turtle Creek Drive
City of Delavan	Prairie Village South	315 Turtle Creek Drive
Town of Richmond	Richmond Way	N6032 STH 89
City of Delavan	Ridgestone Village Ltd	1025 S Second Street
Town of Delavan	Rosewood Manor LLC	2220 Borg Road
Town of Geneva	Runges CBRF for Developmentally Disabled	W3705 Loveland Road
Town of Whitewater	Sapphire House	W7332 STH 12
City of Elkhorn	Sunnyside Home	1 Eastown Manor
City of Whitewater	The Glen Supportive Living	1281 W Main Street
City of Lake Geneva	Village Glen of Geneva Crossing	723 S Curtis Street
Town of Delavan	Vintage on the Ponds	N4901 Dam Road
Town of Geneva	Whispering Willows	W4517 Willow Bend Road
Dam		
Village of Bloomfield	Bloomfield Wetland Restoration	none
Town of La Grange	Cedar Grove	none
City of Delavan	Comus Lake	N Terrace Street (Dam Road)
City of Delavan	Dam	none
City of Lake Geneva	Dam	none
City of Lake Geneva	Dam	none
Town of Troy	Donnelly	none
Town of Lafayette	Droster, Elmer	none
Village of East Troy	East Troy	Higway 120
Town of Delavan	Fox, George	none
Town of Bloomfield	Fries, Elmer	none
Village of Bloomfield	Grethe	none
Town of East Troy	Hilbourn	none
Town of Spring Prairie	Honey Lake	none
Town of Richmond	Jackley Dam #1	none
Town of Richmond	Jackley Dam #2	none

Jurisdiction	Facility Name	Address
Town of Richmond	Jackley Dam #3	none
Town of Troy	Kettle Moraine Estates, Corp	none
Town of East Troy	Lake Beulah	none
Town of Geneva	Lake Como (spillway)	none
Town of Delavan	Lake Delavan	none
Town of Delavan	Lake Delavan	none
Town of Geneva	Lake Geneva	none
Village of Bloomfield	Lake Tombeau	none
Town of La Grange	Lauderdale Lake	none
Town of Darien	Morrissey	Christie Road
Town of La Grange	Motl, Laurene	none
City of Whitewater	Old Paper Mill	none
City of Whitewater	Old Stone Mill	none
Town of Troy	Pabst	none
Town of Troy	Pabst Diversion	none
Town of Bloomfield	Pell Lake	none
Town of East Troy	Potters Lake	none
Village of Bloomfield	Powers Lake	none
Town of Whitewater	Rice Lake	none
Town of Spring Prairie	Roubik, Charles J.	none
Town of Richmond	Turtle Lake	Turtle Lake Road
Town of Richmond	Turtle Valley Central Phase	none
Town of Sugar Creek	Turtle Valley Phase III	none
Town of Bloomfield	Val Sauer	none
Village of Bloomfield	Warren Smadbeck	none
Town of Whitewater	Whitewater Lake	none
Electric substation		
City of Elkhorn	Electric substation	600 S Lincoln Street
City of Elkhorn	Electric substation	Broad Street
Town of Bloomfield	Electric substation	W497 CTH U
Town of Darien	Electric substation	2918 Foundry Road
Town of Linn	Electric substation	N1479 Zenda Road
Town of Sharon	Electric substation	STH 67
Village of Williams Bay	Electric substation	Theater Road

Jurisdiction	Facility Name	Address
Town of Richmond	WE Energy Substation	N6229 Church Road
Town of Sugar Creek	Wisconsin Electric Co substation	W5567 County Road A
Village of East Troy	Wisconsin Electric Co substation	Byrnes Street
Town of Lyons	Wisconsin Electric Power substation	7093 STH 36
Town of Sugar Creek	Wisconsin Electric substation	N5843 and N5825 Voss Road
City of Delavan	Wisconsin Power & Light substation	Wisconsin Street
City of Lake Geneva	Wisconsin Power & Light substation	Mill Street
Town of Darien	Wisconsin Power & Light substation	N3366 CTH K
Town of Delavan	Wisconsin Power & Light substation	6396 Mound Road
Town of Geneva	Wisconsin Power & Light substation	CTH NN
Village of Walworth	Wisconsin Power & Light substation	520 N Main Street
Town of Whitewater	Wisconsin Power Co substation	Clover Valley Road
EMS facility (stand alone)		
City of Delavan	Delavan Rescue Squad, Inc.	651 Ann Street
City of Elkhorn	Medix Ambulance Service, Inc. - Elkhorn	501 S Nathan Lane #3
City of Lake Geneva	Medix Ambulance Service, Inc. - Lake Geneva	623 Main Street
Town of East Troy	Paratech Ambulance Service, Inc.	N8406 Highway ES
Fire department		
Village of Bloomfield	Bloomfield Genoa City Fire & Rescue	N1113 Clover Road
City of Delavan	City of Delavan Fire Department	220 S 7th
Village of Darien	Darien Fire Department	311 W Madison Street
Town of East Troy	East Troy Area Emergency Services	N8400 Highway ES
City of Elkhorn	Elkhorn Area Fire Department	13 S Broad Street
Village of Fontana on Geneva Lake	Fontana Volunteer Fire Department and Rescue Squad	190 Douglas Street
City of Lake Geneva	Lake Geneva Fire Department - Station #1	730 Marshall Street
City of Lake Geneva	Lake Geneva Fire Station #2	Host Drive
Town of La Grange	Lauderdale-La Grange Fire Department Inc.	W6080 STH 12
Town of Sharon	Sharon Fire and Rescue	182 Park Avenue
Town of Delavan	Town of Delavan Fire Department	2000 Sage Road
Town of Delavan	Town of Delavan Fire Department	6095 Bailey Road
Town of Delavan	Town of Delavan Fire Department	2704 CTH O
Town of Delavan	Town of Delavan Fire Department and EMS	5698 Town Hall Road
Town of Linn	Town of Linn Fire/EMS	N1457 Hillside Road

Jurisdiction	Facility Name	Address
Town of Lyons	Town of Lyons Fire Department	6339 Hospital Road
Town of Troy	Troy Center Fire Department	N8870 Briggs Street
Village of Walworth	Walworth Fire Department	247 N Main Street
City of Whitewater	Whitewater Volunteer Fire Department and Rescue	312 W Whitewater Street
Village of Williams Bay	Williams Bay Volunteer Fire Department and Rescue Squad	5 E Geneva Street
Group day care		
Town of Geneva	All About Children	N3241 County Road H
City of Lake Geneva	Amy's Academy Lake Geneva	601 Walworth Street
Town of Whitewater	At School Programs-Lakeview	W8363 RW Townline Road
City of Whitewater	At School Programs-Links Charter	242 S Prince Street
City of Delavan	At School Programs-Turtle Creek	1235 Creek Road
City of Whitewater	At School Programs-Washington	506 E Main Street
City of Delavan	At School Programs-Wileman	1001 E Geneva Street
Village of East Troy	Bright Beginnings Day Care	2541 E Main Street, Unit F
Village of East Troy	Bright Beginnings Day Care LLC	2040 Beulah Avenue
Town of Geneva	Calvary Maranatha Preschool	Highway 50 and Harris Road
City of Delavan	Delavan Nursery Center	115 S 7th Street
Town of East Troy	Edwards YMCA Camp	N8901 Army Lake Road
Town of Bloomfield	Garden Gate Child Care Center	W1876 Deignan Road
Village of Williams Bay	Jerris Kidz	139 Congress Street
City of Lake Geneva	Lake Geneva Day Care Center	912 Geneva Street, Suite A
City of Lake Geneva	Lake Geneva Montessori School	912 Geneva Street
City of Elkhorn	Lakeland's Little Learners	240 E Commerce Court
City of Elkhorn	Lakeland's Little Learners-Jackson	13 N Jackson Street
Town of Sugar Creek	Lakeland's Little Learners-Tibbets	W5218 County Road A
City of Whitewater	Learning Depot	560 S Elkhorn Road
City of Whitewater	Learning Depot II	707 W Walworth
Village of East Troy	Little Angel Learning Center	2141 Mill Street
Village of Walworth	Little Professors After School Care	121 Beloit Street
Village of Walworth	Little Professors Learning Center	125 N State Highway 67
Town of Geneva	Little Red Preschool of Lake Como	N3445 Como Road, Suite 5
Town of Bloomfield	Miss Vicki's (St Marys) Day Care Center	W1256 N Lake Shore Drive
Village of East Troy	Noahs Ark Christian Day Care Center	2942 Austin Street
City of Delavan	Our Redeemer Lutheran Child Care	416 W Geneva Street

Jurisdiction	Facility Name	Address
City of Delavan	Preschool for Creative Learning	1545 Hobbs Drive
Town of Whitewater	RWCFS Lakeview Head Start Center	W8363 RW Townline Road
City of Delavan	RWCFS Phoenix School Head Start Ctr	414 Beloit Street
Village of Sharon	RWCFS Sharon Community Head Start Center	104 E School Street
Village of Bloomfield	RWCFS Star Center Head Start Center	W1380 Lake Geneva Highway
City of Whitewater	RWCFS-Links Chater	242 S Prince Street
Village of Genoa City	Sommerschool Childcare and Learning	328 Freeman Street
City of Elkhorn	Step Ahead Preschool Center LLC (St. John's Lutheran Church)	104 S Broad Street
City of Elkhorn	TLC The Learning Curve	1950 N Wisconsin Street, Suite B
City of Elkhorn	TLC Westside Wrap Around	222 Sunset Drive
City of Lake Geneva	United Child Care Center	715 Wisconsin Street
City of Whitewater	UW Whitewater Childrens Center	800 W Main Street (Roseman Building - UW Whitewater)
Health care clinic		
City of Elkhorn	Aurora Health Center	209 E Commerce Court
City of Delavan	Aurora Health Center - Delavan	1550 Hobbs Drive
Village of East Troy	Aurora Health Center - East Troy	2483 Corporate Circle Drive
City of Elkhorn	Aurora Health Center - Elkhorn	20 N Church Street
City of Lake Geneva	Aurora Health Center - Lake Geneva	146 E Geneva Square
Village of Walworth	Aurora Health Center - Walworth	525 Kenosha Street, Suite A
Village of Darien	Darien Medical Center (Beloit Memorial Hospital)	300 W Bella Vista Drive
City of Delavan	Dean Clinic - Delavan	540 Bowers Boulevard
City of Whitewater	Fort HealthCare (Therapy and Sport Center)	1461 W Main Street
City of Lake Geneva	Mercy Lake Geneva Medical Center	350 Peller Road
Village of Sharon	Mercy Sharon Medical Center	118 Plain Street
City of Whitewater	Mercy Whitewater Medical Center	507 W Main Street
City of Whitewater	Whitewater Family Practice Clinic	1305 W Main Street
Hospital		
Town of Geneva	Aurora Lakeland Medical Center	W3985 County Road NN
Town of Geneva	Mercy Walworth Hospital & Medical Center	N2950 State Road 67
Library		
City of Delavan	Aram Public Library	404 E Walworth Street
Village of Williams Bay	Barrett Memorial Library	65 W Geneva Street
Village of Sharon	Brigham Memorial Library	131 Plain Street

Jurisdiction	Facility Name	Address
Village of Darien	Darien Public Library	Park Street
Village of East Troy	East Troy Lions Public Library	3094 Graydon Avenue
Village of Fontana on Geneva Lake	Fontana Public Library	166 2nd Avenue
Village of Genoa City	Genoa City Public Library	126 Freeman
City of Whitewater	Irwin L. Young Memorial Library	431 W Center Street
City of Lake Geneva	Lake Geneva Public Library	918 W Main Street
City of Elkhorn	Matheson Memorial Library	101 N Wisconsin Street
Village of Walworth	Walworth Memorial Library	101 Maple Avenue
Mobile / Manufactured home park		
City of Lake Geneva	Brooks Timbers Court	515 S Wells Street
Town of Geneva	Coachman's Terrace Manufactured Home Community	W3540 State Road 50
Town of Lyons	Country Estates	Hospital Road
City of Lake Geneva	Lake Geneva Estates	750 Lake Geneva Blvd
City of Elkhorn	Land O' Lakes Mobile Home Court	473 E Geneva Street
Town of Delavan	Ludwell Estates	5614 STH 11
Town of Darien	Pioneer Estates - Delavan	W7955 Creek Road
Town of Bloomfield	Pioneer Estates - Lake Geneva	N2020 CTH H
Village of Sharon	Sharon Estates	Park Road
Village of East Troy	Skyview Terrace	2742 E Main Street
Town of Richmond	Snug Harbor Manufactured Home Community	W7772 Wisconsin Parkway
Town of Troy	Troy Terrace Mobile Home Park	N9685 Nature Road
Town of Lyons	Unnamed park	Motor Drive off of STH 36
Municipal garage		
City of Elkhorn	City of Elkhorn Garage	12 E 1st Avenue
City of Lake Geneva	City of Lake Geneva Department of Public Works	1065 Carey Street
City of Whitewater	City of Whitewater Streets and Parks	W Starin Street
City of Delavan	Delavan Grounds Maintenance Garage	69 W Walworth Avenue
City of Delavan	Delavan Street Department	490 Richmond Road
Village of Fontana on Geneva Lake	Fontana Public Works	300 Wild Duck Road
Town of Lafayette	Lafayette Town Garage	W2960 State Road 11
Village of Sharon	Sharon Municipal Garage	180 George Street
Town of Darien	Town of Darien Municipal Garage	N2876 Foundry Road
Town of Delavan	Town of Delavan Highway Department	5621 Town Hall Road

Jurisdiction	Facility Name	Address
Town of East Troy	Town of East Troy Municipal Garage	N9330 Stewart School Road
Town of Geneva	Town of Geneva Municipal Garage	N3496 Como Road
Town of La Grange	Town of La Grange Highway Department	N8530 County Road H
Town of Linn	Town of Linn Garage	N611 Zenda Road
Town of Lyons	Town of Lyons Highway Garage	6339 Hospital Road
Town of Richmond	Town of Richmond Municipal Garage	W9046 CTH A
Town of Sharon	Town of Sharon Public Works and Garage	N1097 Bollinger Road
Town of Spring Prairie	Town of Spring Prairie Municipal Garage	N6097 STH 120
Town of Sugar Creek	Town of Sugar Creek Municipal Garage	N6641 CTH H
Town of Troy	Town of Troy Municipal Garage	N8851 County Road N
Town of Walworth	Town of Walworth Municipal Garage	W6741 Brich Church Road
Town of Whitewater	Town of Whitewater Highway Department	W8590 Willis Ray Road
Village of Darien	Village of Darien Municipal Garage	323 W Madison Street
Village of East Troy	Village of East Troy Dept. of Public Works	2861 Austin Street
Village of East Troy	Village of East Troy Municipal Garage	2104 Young Street
Village of Walworth	Village of Walworth Public Works Department	121 Badger Street
Town of Geneva	Walworth County Public Works	W4097 County Road NN
Village of Williams Bay	Williams Bay Street Department	230 Williams Street
Municipal office and other		
Village of Bloomfield	Bloomfield Town Hall	1100 Town Hall Road
City of Elkhorn	City of Elkhorn Parks & Recreation Department	200 S Devendorf Street
City of Whitewater	Community Development Authority	402 W Main Street
Town of Darien	Darien Town Hall	N2826 Foundry Road
Village of Darien	Darien Village Hall	24 E Wisconsin Street
City of Delavan	Delavan City Hall	123 S 2nd Street
Town of Delavan	Delavan Town Hall	5621 Town Hall Road
City of Elkhorn	Department of Transportation Division of Motor Vehicle	835 S Lincoln Street
Town of East Troy	East Troy Town Hall	N9330 Stewart School Road
Village of East Troy	East Troy Village Hall	2015 Energy Drive
City of Elkhorn	Elkhorn City Hall	9 S Broad Street
Village of Fontana on Geneva Lake	Fontana-on-Geneva Lake Village Hall	175 Valley View Drive
Town of Geneva	Geneva Town Hall	N3496 Como Road
Village of Genoa City	Genoa City Village Hall	715 Walworth Street
Town of La Grange	La Grange Town Hall	N7899 County Road H

Jurisdiction	Facility Name	Address
Town of Lafayette	Lafayette Town Hall	W4614 Potter Road
City of Lake Geneva	Lake Geneva City Hall	626 Geneva Street
City of Lake Geneva	Lake Geneva Water Commission	361 W Main Street
Town of Linn	Linn Town Hall	W3728 Franklin Walsh Street
Town of Lyons	Lyons Town Hall	6339 Hospital Road
Town of Richmond	Richmond Town Hall	W9046 CTH A
Town of Sharon	Sharon Town Hall	N1097 Bollinger Road
Village of Sharon	Sharon Village Hall	125 Plain Street
Town of Spring Prairie	Spring Prairie Town Hall	N6097 STH 120
City of Whitewater	Starin Park Community Building	504 W Starin Street
Town of Sugar Creek	Sugar Creek Town Hall	N6641 CTH H
Town of Delavan	Town of Delavan Building Inspector Office	5621 Town Hall Road
Town of Walworth	Town of Walworth Town Hall	W6741 Brich Church Road
Town of Troy	Troy Town Hall	N8870 Briggs Street
City of Elkhorn	USDA/Natural Resource Conservation Service	225 E O'Connor Drive
City of Elkhorn	Walworth County Government Center	100 W Walworth Street
Town of Geneva	Walworth County Health and Human Services	W4051 County Road NN
City of Elkhorn	Walworth County Judicial Center	1800 County Road NN
Village of Walworth	Walworth Village Hall	227 N Main Street
City of Whitewater	Whitewater Armory	146 W North Street
City of Whitewater	Whitewater City Hall	312 W Whitewater Street
Town of Whitewater	Whitewater Town Hall	W8590 Willis Ray Road
Village of Williams Bay	Williams Bay Recreation Department Office	310 Elkhorn Road
Village of Williams Bay	Williams Bay Village Hall	250 Williams Street
City of Elkhorn	Wisconsin Department of Workforce Development - Jobs Service	1000 E Centralia Street
City of Elkhorn	Wisconsin Office of the State Public Defender	209 E O'Connor Drive
National Guard		
City of Whitewater	Army National Guard	952 N Universal Boulevard
City of Elkhorn	Army National Guard Co 1st Bn 128th Inf	401 E Fair Avenue
Natural gas facility		
Town of La Grange	Guardian Pipeline gas facility	STH 12
Town of La Grange	Natural gas facility	W5905 STH 12
Town of Lyons	Natural gas facility	Hospital Road and STH 120

Jurisdiction	Facility Name	Address
Town of Sharon	Natural gas facility	N1146 CTH C
Town of Whitewater	Northern Natural Gas	W7960 Reliance Road
Nursing home		
Village of East Troy	East Troy Manor	3271 North Street
City of Whitewater	Fairhaven	435 W Starin Road
City of Lake Geneva	Geneva Lake Manor	211 S Curtis Street
Village of Walworth	Golden Years Health Care Center	270 Ridge Road
City of Elkhorn	Holton Manor	638 N Broad Street
City of Elkhorn	Lakeland Health Care Center	1922 County Road NN
Village of Williams Bay	Williams Bay Care Center	146 Clover Street
City of Delavan	Willowfield Nursing & Rehab Center	905 E Geneva Street
Police department		
Village of Bloomfield	Bloomfield Township Police Department	1100 Town Hall Road
Village of Darien	Darien Police Department	24 E Wisconsin Street
City of Delavan	Delavan Police Department (DVPD)	123 S 2nd Street
Town of Delavan	Delavan Township Police Department	5625 Town Hall Road
Town of East Troy	East Troy Township Police Department	N9330 Stewart School Road
Village of East Troy	East Troy Village Police Department	2015 Energy Drive
City of Elkhorn	Elkhorn Police Department	404 N Washington Street
Village of Fontana on Geneva Lake	Fontana Police Department	185 Douglas Street
City of Lake Geneva	Lake Geneva Police Department (LGPD)	626 Geneva Street
Town of Linn	Linn Township Police Department	W3728 Franklin Walsh Street
Village of Sharon	Sharon Police Department	125 Plain Street
Town of Geneva	Town of Geneva Police Department	N3496 Como Road
City of Elkhorn	Walworth County Law Enforcement Center	1770 County Road NN
Village of Walworth	Walworth Police Department	227 N Main Street
City of Whitewater	Whitewater Police Department	312 W Whitewater Street
Village of Williams Bay	Williams Bay Police Department	250 Williams Street
Post office		
Village of Darien	Post Office - Darien	1 E Beloit Street
City of Delavan	Post Office - Delavan	335 E Walworth Avenue
Village of East Troy	Post Office - East Troy	2099 Mill Street
City of Elkhorn	Post Office - Elkhorn	102 E Walworth Street

Jurisdiction	Facility Name	Address
Village of Fontana on Geneva Lake	Post Office - Fontana	185 3rd Avenue
City of Lake Geneva	Post Office - Lake Geneva	672 W Main Street
Town of Lyons	Post Office - Lyons	1447 Mill Street
Village of Bloomfield	Post Office - Pell Lake	W1265 Park Road
Village of Sharon	Post Office - Sharon	199 Walworth Street
Town of Lyons	Post Office - Springfield	7210 Springfield Road
Village of Walworth	Post Office - Walworth	206 N Main Street
City of Whitewater	Post Office - Whitewater	213 W Center Street
Village of Williams Bay	Post Office - Williams Bay	129 N Walworth Avenue
Town of Linn	Post Office - Zenda	W3724 Franklin Walsh Street
Public-use airport		
City of Burlington	Burlington Municipal Airport	703 Airport Drive
Village of East Troy	East Troy Municipal Airport	2085 Highway L
Recreation		
City of Delavan	Mill Pond Rec Building	Waterworks Drive
Residential care apartment complex (RCAC)		
City of Lake Geneva	Arbor Village of Geneva Crossing	201 Townline Road
Village of East Troy	Brolen Park	2191 Church Street
Village of Walworth	Golden Years Retirement Village	270 Ridge Road
Town of Walworth	Inspiration Ministries	N2270 Highway 67
City of Delavan	Ridgestone Court Inc	1025 S Second Street
City of Elkhorn	Ridgestone Terrace	291 W Evergreen Parkway
Village of Williams Bay	Sherwood Lodge	116 Cherry Street
School K-12		
City of Lake Geneva	Badger High School	220 E South Street
Village of Walworth	Big Foot High School	401 Devils Lane
Village of Genoa City	Brookwood Elementary School	630 Kossuth Street
Village of Genoa City	Brookwood Middle School	1020 Hunters Ridge
Village of East Troy	Byrnes Elementary School	2043 Division Street
City of Lake Geneva	Central-Denison Middle School	900 Wisconsin Street
Town of Lyons	Cornerstone Christian Academy	1553 Church Street
Village of Darien	Darien Elementary School	125 S Walworth Street
City of Delavan	Delavan Christian School	848 Oak Street

Jurisdiction	Facility Name	Address
City of Delavan	Delavan-Darien High School	150 Cummings Street
Village of East Troy	Doubek Elementary School	2040 Beulah Avenue
Village of East Troy	East Troy High School	3128 Graydon Avenue
Village of East Troy	East Troy Middle School	3143 Graydon Avenue
City of Lake Geneva	Eastview Elementary School	535 Sage Street
City of Elkhorn	Elkhorn Area High School	482 E Geneva Street
City of Elkhorn	Elkhorn Area Middle School	627 E Court Street
Town of Walworth	Faith Christian School	W5525 Highway 67
City of Lake Geneva	First Evangelical Lutheran School	1101 Logan Street
City of Elkhorn	First Lutheran School (Also preschool)	415 Devendorf Street
Village of Fontana on Geneva Lake	Fontana Elementary School	450 S Main Street
Village of East Troy	Good Shepherd Lutheran School	1936 Emery Street
City of Elkhorn	Jackson Elementary School	13 N Jackson
City of Whitewater	Kettle Moraine Baptist Academy	505 S Wisconsin Street
City of Lake Geneva	Lake Geneva Middle School	600 N Broomfield Road
Town of Geneva	Lakeland School	W3905 CTH NN
City of Elkhorn	Lakeland School of Walworth County	504 W Court Street
Town of Whitewater	Lakeview Elementary School	W8363 RW Townline Road
City of Whitewater	Links Charter School	242 S Prince Street
Town of Lyons	Lyons Center School	1622 Mill Street
Town of Lyons	Mount Zion Christian School	2330 Highway 120
Town of East Troy	Nature's Classroom Montessori School	W1802 Highway J
City of Delavan	Our Redeemer Lutheran School	416 W Geneva Street
City of Delavan	Phoenix Middle School	414 Beloit Street
Village of East Troy	Prairie View Elementary School	2131 Townline Road
Town of Linn	Reek Elementary School	W4094 S Lake Shore Drive
City of Delavan	Saint Andrews Parish School	115 S 7th Street
City of Lake Geneva	Saint Francis de Sales Grade School	130 W Main Street
City of Elkhorn	Saint Patricks Grade School	534 Sunset Drive
Village of East Troy	Saint Pauls Lutheran School	2665 North Street
Village of East Troy	Saint Peters Elementary School	3001 Elm Street
Village of Sharon	Sharon Community School	104 E School Street
Village of Bloomfield	Star Center Elementary School	W1380 Lake Geneva Highway
Town of Sugar Creek	Tibbets Elementary School	W5218 County Road A

Jurisdiction	Facility Name	Address
Town of Linn	Traver Elementary School	W3490 Linton Road (CTH BB)
City of Delavan	Turtle Creek Elementary School	1235 Creek Road
Village of Walworth	Walworth Christian School	119 Phillips Avenue
City of Elkhorn	Walworth County Educational Alternative High School	400 County Road H
Village of Walworth	Walworth Elementary and Middle School	121 Beloit Street
City of Whitewater	Washington Elementary School	506 E Main Street
City of Elkhorn	West Side Elementary School	222 N Sunset Drive
City of Whitewater	Whitewater High School	534 S Elizabeth Street
City of Whitewater	Whitewater Middle School	401 S Elizabeth Street
City of Delavan	Wileman Elementary School	1001 E Geneva Street
Village of Williams Bay	Williams Bay Elementary School	139 Congress Street
Village of Williams Bay	Williams Bay High School	500 W Geneva Street
Village of Williams Bay	Williams Bay Junior High School	500 W Geneva Street
City of Delavan	Wisconsin School for the Deaf	311 W Walworth Avenue
Town of Geneva	Woods Elementary School	N2575 Snake Road
School Post-secondary		
City of Elkhorn	Gateway Technical College	400 County Road H
Village of Williams Bay	George Williams College of Aurora University	350 Constance Boulevard
City of Elkhorn	Upper Iowa University	400 County Road H
City of Whitewater	UW-Whitewater	Main Street
Senior center		
Village of Darien	Darien Senior Center	Park Street
Telecommunication		
City of Whitewater	Board of Regents, University of Wisconsin System	none
Town of East Troy	Communication tower	N9084 Highway ES
City of Delavan	Telecommunication tower	Edwards Street
City of Delavan	Telecommunication tower	Edwards Street
City of Elkhorn	Telecommunication tower	Walworth Street
City of Elkhorn	Telecommunication tower	Walworth Street
City of Elkhorn	Telecommunication tower	404 N Washington Street
City of Elkhorn	Telecommunication tower	McKenzie Lane
City of Lake Geneva	Telecommunication tower	North Bloomfield Road
City of Lake Geneva	Telecommunication tower	Broad Street

Jurisdiction	Facility Name	Address
City of Lake Geneva	Telecommunication tower	Dodge Street and Forest Street
City of Whitewater	Telecommunication tower	E Commercial Avenue
City of Whitewater	Telecommunication tower	N9694 Old Highway 12
Town of Bloomfield	Telecommunication tower	North Bloomfield Road
Town of Bloomfield	Telecommunication tower	Twin Lakes Road
Town of Darien	Telecommunication tower	Old Highway 89
Town of Darien	Telecommunication tower	West Bound Lane
Town of Geneva	Telecommunication tower	Palmer Road
Town of Geneva	Telecommunication tower	N3403 Bird Place
Town of Geneva	Telecommunication tower	W2835 Krueger Road
Town of Geneva	Telecommunication tower	CTH H
Town of Geneva	Telecommunication tower	none
Town of La Grange	Telecommunication tower	W6586 Territorial Road
Town of La Grange	Telecommunication tower	STH 12 and Tamarack Road
Town of Lafayette	Telecommunication tower	CTH D
Town of Lafayette	Telecommunication tower	E Geneva Street (CTH NN)
Town of Lafayette	Telecommunication tower	W4889 CTH ES
Town of Linn	Telecommunication tower	W4121 CTH B
Town of Linn	Telecommunication tower	W4328 Linton Road (CTH BB)
Town of Linn	Telecommunication tower	N1459 Hillside Road
Town of Lyons	Telecommunication tower	STH 36
Town of Lyons	Telecommunication tower	6060 STH 50
Town of Lyons	Telecommunication tower	STH 50
Town of Lyons	Telecommunication tower	STH 50
Town of Richmond	Telecommunication tower	W8354 CTH A
Town of Richmond	Telecommunication tower	STH 89
Town of Sharon	Telecommunication tower	Temperance Road
Town of Spring Prairie	Telecommunication tower	Spring Prairie Road
Town of Spring Prairie	Telecommunication tower	STH 120
Town of Spring Prairie	Telecommunication tower	CTH D
Town of Troy	Telecommunication tower	W2620 CTH J
Town of Troy	Telecommunication tower	N7339 Town Line Road
Town of Whitewater	Telecommunication tower	Taylor Road and STH 59
Town of Whitewater	Telecommunication tower	W7596 STH 12

Jurisdiction	Facility Name	Address
Village of Bloomfield	Telecommunication tower	Pell Lake Drive
Village of East Troy	Telecommunication tower	2485 or 2491 Church Street (STH 120 CTH G)
Village of East Troy	Telecommunication tower	Austin Street
Village of Fontana on Geneva Lake	Telecommunication tower	300 Wild Duck Road
Village of Walworth	Telecommunication tower	Townhall Road (N Main Street)
Village of Bloomfield	Telecommunication tower (Cingular)	Pell Lake Drive
Town of Sharon	Telecommunication tower (Lakehead Pipe Line)	SD Townline Road
Village of Bloomfield	Telecommunication tower (Nextel)	W1031 Rosewood Road
Village of East Troy	Telecommunication tower (Nextel)	2029 Young Street
Town of Walworth	Telecommunication tower (Nextel, Sprint)	W Main Street
Town of Geneva	Telecommunication tower (Pinnacle Towers LLC)	CTH NN
City of Whitewater	Telecommunication tower (U.S. Cellular)	N Prairie Street (Winther Hall - UW Whitewater \
Town of Whitewater	Telecommunication tower (Walworth County)	W8361 RW Townline Road
City of Delavan	Telecommunication tower (Water tower)	Chestnut Court
City of Lake Geneva	Telecommunication tower (water tower)	Host Drive
City of Whitewater	Telecommunication tower (water tower)	E Cravath Street
Town of Delavan	Telecommunications tower	STH 11
Town of Lafayette	Wisconsin, State of	N6471 Woodridge Drive
Telephone facility		
Village of Williams Bay	Ameritech Telephone	53 Cherry Street
City of Lake Geneva	AT&T telephone facility	645 Main Street
Village of East Troy	CenturyTel Telephone facility	2116 Clark Street
Village of Sharon	Sharon Telephone Company	105 Plain Street
Town of Sugar Creek	TDS Telephone substation	N7105 CTH H
Town of Sugar Creek	TDS Telephone substation	W5119 Kenosha Drive
Village of Darien	Verizon telephone facility	51 Wisconsin Street
Town of Richmond	Wisconsin Telephone Company	N6208 Church Road
City of Delavan	Wisconsin telephone facility	116 S 3rd Street
Utility office/yard		
City of Elkhorn	City of Elkhorn Electric Utility Department	400 E Koopman Lane
City of Whitewater	City of Whitewater Water Division	W Starin Street
Town of Delavan	Delavan Lake Sanitary District #3	2990 County Road F
City of Delavan	Delavan Water	488 Richmond Road

Jurisdiction	Facility Name	Address
Town of Geneva	Lake Como Sanitary District Office	N3420 Dell Place
Village of Williams Bay	Williams Bay Water Department	155 Elkhorn Road
Wastewater facility		
City of Lake Geneva	Lake Geneva Wastewater Treatment Plant	201 Haskins Street
Village of Bloomfield	Pell Lake Sanitary District 1	W974 Pell Lake Road
Village of Bloomfield	Pell Lake Sanitation District #1 wastewater plant	N1183 CTH U
Town of Lyons	Sanitary District #2	5996 Clearwater Court
Town of Sharon	Village of Walworth and Village of Fontana Wastewater Treatment Plant	N840 Chilson Road
Town of Darien	Walworth County Metropolitan Sewerage District	975 W Walworth Street (STH 11)
Village of Darien	Wastewater facility	Sharon Street
Town of Sharon	Wastewater treatment plant	N262 Saltbox Road
Village of East Troy	Wastewater treatment plant	2104 Young Street
Village of Genoa City	Wastewater treatment plant	1st Street
Water facility		
City of Whitewater	Ground reservoir (800,00 gallons)	308 N. Fremont Street
City of Elkhorn	Water reservoir and shop	410 S Broad Street
City of Delavan	Water tower	Chestnut Court
City of Delavan	Water tower	1111 Edwards Street
City of Delavan	Water tower	Woolseys Street
City of Delavan	Water tower	E Walworth Street
City of Elkhorn	Water tower	CTH NN
City of Elkhorn	Water tower	none
City of Elkhorn	Water tower	N Church Street
City of Lake Geneva	Water tower	Host Drive
City of Lake Geneva	Water tower	Center Street
City of Lake Geneva	Water tower	Dodge Street and Forest Street
Village of Darien	Water tower	Oak Street
Village of Darien	Water tower	N Badger Parkway
Village of East Troy	Water tower	2485 or 2491 Church Street (STH 120 CTH G)
Village of East Troy	Water tower	2029 Young Street
Village of Fontana on Geneva Lake	Water tower	300 Wild Duck Road
Village of Fontana on Geneva Lake	Water tower	519 S Lakeshore
Village of Genoa City	Water tower	Elizabeth Lane

Jurisdiction	Facility Name	Address
Village of Walworth	Water tower	Townhall Road (N Main Street)
Village of Williams Bay	Water tower	Theater Road
Village of Williams Bay	Water tower	240 Wesley Street
Village of Williams Bay	Water tower	Potawatomi Road
Village of Williams Bay	Water tower	Collie Street
Village of Genoa City	Water tower	Gideon Court
Town of Geneva	Water tower - Lake Como Sanitary District No. 1	N3420 Dell Place
Village of Bloomfield	Water tower - Pell Lake Sanitary District	N1555 Clover Road
City of Whitewater	Water tower (175,000 gallons)	N Prairie Street (Starin Park)
City of Whitewater	Water tower (500,000 gallons)	502 E Cravath Street
Town of Geneva	Water tower (Geneva National - private)	Palmer Road
Village of Fontana on Geneva Lake	Water well	504 Lake Street
Village of Fontana on Geneva Lake	Water well	W5962 Brick Church Road
Village of Fontana on Geneva Lake	Water well	W5992 Brick Church Road
Village of Fontana on Geneva Lake	Water well	140 Mayflower
Village of Fontana on Geneva Lake	Water well	140 Tarrant Court
Village of Sharon	Water well	Center Street
Village of Sharon	Water well	178 George Street
Village of Walworth	Water well	Read Street
City of Whitewater	Water well #5	308 N. Fremont Street
Village of East Troy	Water well #5	3219 North Street
Village of East Troy	Water well #5	2028 West
City of Whitewater	Water well #6	1130 W Carriage Drive
City of Whitewater	Water well #7	N Fremont Street (Starin Park)
Village of East Troy	Water well #7	2802 Oakmont
City of Whitewater	Water well #8	951 E Commercial Avenue
Village of East Troy	Water well #8	3103 North Street
City of Whitewater	Water well #9	797 Indian Mound Parkway
Village of Williams Bay	Well #1	155 Elkhorn
Village of Williams Bay	Well #2	Olive Street
Village of Williams Bay	Well #3	N Harris Road

CRITICAL FACILITIES SORTED BY JURISDICTION: 2021

Facility Type	Facility Name	Address
City of Burlington		
Public-use airport	Burlington Municipal Airport	703 Airport Drive
City of Delavan		
Adult family home (AFH)	Steven's Hope and Love	317 Butternut Drive
Adult family home (AFH)	Voskull Adult Family Home	337 Bradley Avenue
Bridge	Bridge over unnamed creek	Richmond Street
Bridge	Bridge over unnamed creek	Richmond Street
Bridge	Bridge over unnamed creek	W Walworth Avenue (STH 11)
Community based residential facility (CBRF)	Prairie Village North	311 Turtle Creek Drive
Community based residential facility (CBRF)	Prairie Village South	315 Turtle Creek Drive
Community based residential facility (CBRF)	Ridgestone Village Ltd	1025 S Second Street
Dam	Comus Lake	N Terrace Street (Dam Road)
Dam	Dam	none
Electric substation	Wisconsin Power & Light substation	Wisconsin Street
EMS facility (stand alone)	Delavan Rescue Squad, Inc.	651 Ann Street
Fire department	City of Delavan Fire Department	220 S 7th
Group day care	At School Programs-Turtle Creek	1235 Creek Road
Group day care	At School Programs-Wileman	1001 E Geneva Street
Group day care	Delavan Nursery Center	115 S 7th Street
Group day care	Our Redeemer Lutheran Child Care	416 W Geneva Street
Group day care	Preschool for Creative Learning	1545 Hobbs Drive
Group day care	RWCFS Phoenix School Head Start Ctr	414 Beloit Street
Health care clinic	Aurora Health Center - Delavan	1550 Hobbs Drive
Health care clinic	Dean Clinic - Delavan	540 Bowers Boulevard
Library	Aram Public Library	404 E Walworth Street
Municipal garage	Delavan Grounds Maintenance Garage	69 W Walworth Avenue
Municipal garage	Delavan Street Department	490 Richmond Road
Municipal office and other	Delavan City Hall	123 S 2nd Street
Nursing home	Willowfield Nursing & Rehab Center	905 E Geneva Street
Police department	Delavan Police Department (DVPD)	123 S 2nd Street
Post office	Post Office - Delavan	335 E Walworth Avenue
Recreation	Mill Pond Rec Building	Waterworks Drive
Residential care apartment complex (RCAC)	Ridgestone Court Inc	1025 S Second Street
School K-12	Delavan Christian School	848 Oak Street

Facility Type	Facility Name	Address
School K-12	Delavan-Darien High School	150 Cummings Street
School K-12	Our Redeemer Lutheran School	416 W Geneva Street
School K-12	Phoenix Middle School	414 Beloit Street
School K-12	Saint Andrews Parish School	115 S 7th Street
School K-12	Turtle Creek Elementary School	1235 Creek Road
School K-12	Wileman Elementary School	1001 E Geneva Street
School K-12	Wisconsin School for the Deaf	311 W Walworth Avenue
Telecommunication	Telecommunication tower	Edwards Street
Telecommunication	Telecommunication tower	Edwards Street
Telecommunication	Telecommunication tower (Water tower)	Chestnut Court
Telephone facility	Wisconsin telephone facility	116 S 3rd Street
Utility office/yard	Delavan Water	488 Richmond Road
Water facility	Water tower	Chestnut Court
Water facility	Water tower	1111 Edwards Street
Water facility	Water tower	Woolseys Street
Water facility	Water tower	E Walworth Street
City of Elkhorn		
Adult day care (ADC)	Pleasant Street Country Day	329 N Wisconsin Street
Adult day care (ADC)	VIP Services	811 E Geneva
Adult family home (AFH)	Arbor House	W5428 County Road A
Adult family home (AFH)	Community Living Arrangements - Court	298 W Court Street
Adult family home (AFH)	Community Living Arrangements - Prescott	13 Prescott Street
Bridge	Bridge over Jackson Creek	S Lincoln Street (STH 67)
Bridge	Bridge over unnamed creek	S Lincoln Street (STH 67)
Bridge	Bridge over unnamed creek	STH 12 STH 67
Community based residential facility (CBRF)	Kimberly Lane CBRF	416 Kimberly Lane
Community based residential facility (CBRF)	Kindred Hearts of Elkhorn	450 E Geneva Street
Community based residential facility (CBRF)	Sunnyside Home	1 Eastown Manor
Electric substation	Electric substation	600 S Lincoln Street
Electric substation	Electric substation	Broad Street
EMS facility (stand alone)	Medix Ambulance Service, Inc. - Elkhorn	501 S Nathan Lane #3
Fire department	Elkhorn Area Fire Department	13 S Broad Street
Group day care	Lakeland's Little Learners	240 E Commerce Court
Group day care	Lakeland's Little Learners-Jackson	13 N Jackson Street

Facility Type	Facility Name	Address
Group day care	Step Ahead Preschool Center LLC (St. John's Lutheran Church)	104 S Broad Street
Group day care	TLC The Learning Curve	1950 N Wisconsin Street, Suite B
Group day care	TLC Westside Wrap Around	222 Sunset Drive
Health care clinic	Aurora Health Center	209 E Commerce Court
Health care clinic	Aurora Health Center - Elkhorn	20 N Church Street
Library	Matheson Memorial Library	101 N Wisconsin Street
Mobile / Manufactured Home Park	Land O' Lakes Mobile Home Court	473 E Geneva Street
Municipal garage	City of Elkhorn Garage	12 E 1st Avenue
Municipal office and other	City of Elkhorn Parks & Recreation Department	200 S Devendorf Street
Municipal office and other	Department of Transportation Division of Motor Vehicle	835 S Lincoln Street
Municipal office and other	Elkhorn City Hall	9 S Broad Street
Municipal office and other	USDA/Natural Resource Conservation Service	225 E O'Connor Drive
Municipal office and other	Walworth County Government Center	100 W Walworth Street
Municipal office and other	Walworth County Judicial Center	1800 County Road NN
Municipal office and other	Wisconsin Department of Workforce Development - Job Service	1000 E Centralia Street
Municipal office and other	Wisconsin Office of the State Public Defender	209 E O'Connor Drive
National Guard	Army National Guard Co 1st Bn 128th Inf	401 E Fair Avenue
Nursing home	Holton Manor	638 N Broad Street
Nursing home	Lakeland Health Care Center	1922 County Road NN
Police department	Elkhorn Police Department	404 N Washington Street
Police department	Walworth County Law Enforcement Center	1770 County Road NN
Post office	Post Office - Elkhorn	102 E Walworth Street
Residential care apartment complex (RCAC)	Ridgestone Terrace	291 W Evergreen Parkway
School K-12	Elkhorn Area High School	482 E Geneva Street
School K-12	Elkhorn Area Middle School	627 E Court Street
School K-12	First Lutheran School (Also preschool)	415 Devendorf Street
School K-12	Jackson Elementary School	13 N Jackson
School K-12	Lakeland School of Walworth County	504 W Court Street
School K-12	Saint Patricks Grade School	534 Sunset Drive
School K-12	Walworth County Educational Alternative High School	400 County Road H
School K-12	West Side Elementary School	222 N Sunset Drive
School Post-secondary	Gateway Technical College	400 County Road H
School Post-secondary	Upper Iowa University	400 County Road H
Telecommunication	Telecommunication tower	Walworth Street

Facility Type	Facility Name	Address
Telecommunication	Telecommunication tower	Walworth Street
Telecommunication	Telecommunication tower	404 N Washington Street
Telecommunication	Telecommunication tower	McKenzie Lane
Utility office/yard	City of Elkhorn Electric Utility Department	400 E Koopman Lane
Water facility	Water reservoir and shop	410 S Broad Street
Water facility	Water tower	CTH NN
Water facility	Water tower	none
Water facility	Water tower	N Church Street
City of Lake Geneva		
Adult family home (AFH)	Sky Lane Home	109 Sky Lane
Bridge	Bridge over unnamed creek	Main Street (STH 50)
Bridge	Bridge over unnamed creek	Main Street (STH 50)
Campground	Bigfoot Beach State Park (Wis DNR)	1550 S Lake Shore Dr
Community based residential facility (CBRF)	Boulevard Manor	945 Lake Geneva Boulevard
Community based residential facility (CBRF)	Laura's Home	945 Lake Geneva Boulevard
Community based residential facility (CBRF)	Village Glen of Geneva Crossing	723 S Curtis Street
Dam	Dam	none
Dam	Dam	none
Electric substation	Wisconsin Power & Light substation	Mill Street
EMS facility (stand alone)	Medix Ambulance Service, Inc. - Lake Geneva	623 Main Street
Fire department	Lake Geneva Fire Department - Station #1	730 Marshall Street
Fire department	Lake Geneva Fire Station #2	Host Drive
Group day care	Amy's Academy Lake Geneva	601 Walworth Street
Group day care	Lake Geneva Day Care Center	912 Geneva Street, Suite A
Group day care	Lake Geneva Montessori School	912 Geneva Street
Group day care	United Child Care Center	715 Wisconsin Street
Health care clinic	Aurora Health Center - Lake Geneva	146 E Geneva Square
Health care clinic	Mercy Lake Geneva Medical Center	350 Peller Road
Library	Lake Geneva Public Library	918 W Main Street
Mobile / Manufactured home park	Brooks Timbers Court	515 S Wells Street
Mobile / Manufactured Home Park	Lake Geneva Estates	750 Lake Geneva Blvd
Municipal garage	City of Lake Geneva Department of Public Works	1065 Carey Street
Municipal office and other	Lake Geneva City Hall	626 Geneva Street
Municipal office and other	Lake Geneva Water Commission	361 W Main Street

Facility Type	Facility Name	Address
Nursing home	Geneva Lake Manor	211 S Curtis Street
Police department	Lake Geneva Police Department (LGPD)	626 Geneva Street
Post office	Post Office - Lake Geneva	672 W Main Street
Residential care apartment complex (RCAC)	Arbor Village of Geneva Crossing	201 Townline Road
School K-12	Badger High School	220 E South Street
School K-12	Central-Denison Middle School	900 Wisconsin Street
School K-12	Eastview Elementary School	535 Sage Street
School K-12	First Evangelical Lutheran School	1101 Logan Street
School K-12	Lake Geneva Middle School	600 N Broomfield Road
School K-12	Saint Francis de Sales Grade School	130 W Main Street
Telecommunication	Telecommunication tower	North Bloomfield Road
Telecommunication	Telecommunication tower	Broad Street
Telecommunication	Telecommunication tower	Dodge Street and Forest Street
Telecommunication	Telecommunication tower (water tower)	Host Drive
Telephone facility	AT&T telephone facility	645 Main Street
Wastewater facility	Lake Geneva Wastewater Treatment Plant	201 Haskins Street
Water facility	Water tower	Host Drive
Water facility	Water tower	Center Street
Water facility	Water tower	Dodge Street and Forest Street
City of Whitewater		
Adult day care (ADC)	Glen Adult Day Care	1281 W Main Street
Adult family home (AFH)	Carrie's Home	1234 W Melrose
Adult family home (AFH)	Chris Home	424 S Pleasant St
Adult family home (AFH)	Debbie's House	241 N Queen Street
Adult family home (AFH)	Jennie's Place	213 S Whiton Street
Adult family home (AFH)	Koller House (The)	216 S Summit Street
Adult family home (AFH)	Riverwood Adult Family Home	204 N Jefferson Street
Adult family home (AFH)	Stone Ridge Adult Family Home	204 N Jefferson
Bridge	Bridge over unnamed creek	US Highway 59
Bridge	Bridge over unnamed creek	E Main Street
Community based residential facility (CBRF)	Fairhaven Retirement Community	435 W Starin Road
Community based residential facility (CBRF)	Hearthstone Memory Care	426 W North Street
Community based residential facility (CBRF)	Jade House	1541 W Walworth Avenue
Community based residential facility (CBRF)	Our House Senior Living	945 E Chicago Street

Facility Type	Facility Name	Address
Community based residential facility (CBRF)	The Glen Supportive Living	1281 W Main Street
Dam	Old Paper Mill	none
Dam	Old Stone Mill	none
Fire department	Whitewater Volunteer Fire Department and Rescue	312 W Whitewater Street
Group day care	At School Programs-Links Charter	242 S Prince Street
Group day care	At School Programs-Washington	506 E Main Street
Group day care	Learning Depot	560 S Elkhorn Road
Group day care	Learning Depot II	707 W Walworth
Group day care	RWCFS-Links Chater	242 S Prince Street
Group day care	UW Whitewater Childrens Center	800 W Main Street (Roseman Building - UW W hitewater)
Health care clinic	Fort HealthCare (Therapy and Sport Center)	1461 W Main Street
Health care clinic	Mercy Whitewater Medical Center	507 W Main Street
Health care clinic	Whitewater Family Practice Clinic	1305 W Main Street
Library	Irwin L. Young Memorial Library	431 W Center Street
Municipal garage	City of Whitewater Streets and Parks	W Starin Street
Municipal office and other	Community Development Authority	402 W Main Street
Municipal office and other	Starin Park Community Building	504 W Starin Street
Municipal office and other	Whitewater Armory	146 W North Street
Municipal office and other	Whitewater City Hall	312 W Whitewater Street
National Guard	Army National Guard	952 N Universal Boulevard
Nursing home	Fairhaven	435 W Starin Road
Police department	Whitewater Police Department	312 W Whitewater Street
Post office	Post Office - Whitewater	213 W Center Street
School K-12	Kettle Moraine Baptist Academy	505 S Wisconsin Street
School K-12	Links Charter School	242 S Prince Street
School K-12	Washington Elementary School	506 E Main Street
School K-12	Whitewater High School	534 S Elizabeth Street
School K-12	Whitewater Middle School	401 S Elizabeth Street
School Post-secondary	UW-Whitewater	Main Street
Telecommunication	Board of Regents, University of Wisconsin System	none
Telecommunication	Telecommunication tower	E Commercial Avenue
Telecommunication	Telecommunication tower	N9694 Old Highway 12
Telecommunication	Telecommunication tower (U.S. Cellular)	N Prairie Street (Winther Hall - UW Whitewater)
Telecommunication	Telecommunication tower (water tower)	E Cravath Street

Facility Type	Facility Name	Address
Utility office/yard	City of Whitewater Water Division	W Starin Street
Water facility	Ground reservoir (800,00 gallons)	308 N. Fremont Street
Water facility	Water tower (175,000 gallons)	N Prairie Street (Starin Park)
Water facility	Water tower (500,000 gallons)	502 E Cravath Street
Water facility	Water well #5	308 N. Fremont Street
Water facility	Water well #6	1130 W Carriage Drive
Water facility	Water well #7	N Fremont Street (Starin Park)
Water facility	Water well #8	951 E Commercial Avenue
Water facility	Water well #9	797 Indian Mound Parkway
Town of Bloomfield		
Adult family home (AFH)	Lincoln Street Adult Family Home	N2465 Lincoln Drive
Bridge	Bridge over East Branch Nippersink Creek	US 12
Bridge	Bridge over East Branch Nippersink Creek	CTH F
Bridge	Bridge over East Branch Nippersink Creek	CTH U
Bridge	Bridge over North Branch Nippersink Creek	CTH H
Bridge	Bridge over North Branch Nippersink Creek	CTH B
Bridge	Bridge over unnamed creek	US 12
Bridge	Bridge over unnamed creek	CTH U
Community based residential facility (CBRF)	Casa Mia Care Center	W1043 Rosewood Road
Community based residential facility (CBRF)	Lakeside Woodland Home	W913 Washington Avenue
Dam	Fries, Elmer	none
Dam	Pell Lake	none
Dam	Val Sauer	none
Electric substation	Electric substation	W497 CTH U
Group day care	Garden Gate Child Care Center	W1876 Deignan Road
Group day care	Miss Vicki's (St Marys) Day Care Center	W1256 N Lake Shore Drive
Mobile / Manufactured home park	Pioneer Estates - Lake Geneva	N2020 CTH H
Telecommunication	Telecommunication tower	North Bloomfield Road
Telecommunication	Telecommunication tower	Twin Lakes Road
Town of Darien		
Bridge	Bridge over Turtle Creek	STH 11
Bridge	Bridge over Turtle Creek	STH 89 US 14
Bridge	Bridge over Turtle Creek	CTH C
Bridge	Bridge over unnamed creek	I-43

Facility Type	Facility Name	Address
Bridge	Bridge over unnamed creek	CTH X
Bridge	Bridge over unnamed creek	CTH C
Bridge	Bridge over unnamed creek	I-43
Bridge	Bridge over unnamed creek	CTH C (Foundry Road)
Dam	Morrissey	Christie Road
Electric substation	Electric substation	2918 Foundry Road
Electric substation	Wisconsin Power & Light substation	N3366 CTH K
Mobile / Manufactured home park	Pioneer Estates - Delavan	W7955 Creek Road
Municipal garage	Town of Darien Municipal Garage	N2876 Foundry Road
Municipal office and other	Darien Town Hall	N2826 Foundry Road
Telecommunication	Telecommunication tower	Old Highway 89
Telecommunication	Telecommunication tower	West Bound Lane
Wastewater facility	Walworth County Metropolitan Sewerage District	975 W Walworth Street (STH 11)
Town of Delavan		
Adult family home (AFH)	Mabry Adult Family Home	7980 Summit Drive
Adult family home (AFH)	Pease Adult Family Home	5281 State Road 50
Bridge	Bridge - Delavan Lake	STH 50
Bridge	Bridge over Swan Creek	CTH O
Bridge	Bridge over Turtle Creek	CTH P
Bridge	Bridge over unnamed creek	CTH O
Bridge	Bridge over unnamed creek	I-43
Bridge	Bridge over unnamed creek	I-43
Community based residential facility (CBRF)	Cobblestones	4492 Cobblestone Road
Community based residential facility (CBRF)	Rosewood Manor LLC	2220 Borg Road
Community based residential facility (CBRF)	Vintage on the Ponds	N4901 Dam Road
Dam	Fox, George	none
Dam	Lake Delavan	none
Dam	Lake Delavan	none
Electric substation	Wisconsin Power & Light substation	6396 Mound Road
Fire department	Town of Delavan Fire Department	2000 Sage Road
Fire department	Town of Delavan Fire Department	6095 Bailey Road
Fire department	Town of Delavan Fire Department	2704 CTH O
Fire department	Town of Delavan Fire Department and EMS	5698 Town Hall Road
Mobile / Manufactured Home Park	Ludwell Estates	5614 STH 11

Facility Type	Facility Name	Address
Municipal garage	Town of Delavan Highway Department	5621 Town Hall Road
Municipal office and other	Delavan Town Hall	5621 Town Hall Road
Municipal office and other	Town of Delavan Building Inspector Office	5621 Town Hall Road
Police department	Delavan Township Police Department	5625 Town Hall Road
Telecommunication	Telecommunications tower	STH 11
Utility office/yard	Delavan Lake Sanitary District #3	2990 County Road F
Town of East Troy		
Bridge	Bridge over Honey Creek	US Highway 20
Bridge	Bridge over Spring Creek	US Highway 20
Bridge	Bridge over unnamed creek	CTH L
Campground	Camp Charles Allis	W2035 Beulah Heights Road
Campground	Camp Edwards YMCA	N8901 Army Lake Road
Dam	Hilbourn	none
Dam	Lake Beulah	none
Dam	Potters Lake	none
EMS facility (stand alone)	Paratech Ambulance Service, Inc.	N8406 Highway ES
Fire department	East Troy Area Emergency Services	N8400 Highway ES
Group day care	Edwards YMCA Camp	N8901 Army Lake Road
Municipal garage	Town of East Troy Municipal Garage	N9330 Stewart School Road
Municipal office and other	East Troy Town Hall	N9330 Stewart School Road
Police department	East Troy Township Police Department	N9330 Stewart School Road
School K-12	Nature's Classroom Montessori School	W1802 Highway J
Telecommunication	Communication tower	N9084 Highway ES
Town of Geneva		
Adult family home (AFH)	Palmer Road Adult Family Home	W4080 Palmer Road
Bridge	Bridge over Como Creek	US 12
Bridge	Bridge over Como Creek	CTH H
Bridge	Bridge over Como Creek	Point
Bridge	Bridge over unnamed creek	CTH H
Bridge	Bridge over unnamed creek	CTH H
Bridge	Bridge over unnamed creek	US 12
Bridge	Bridge over unnamed creek	US 12
Bridge	Bridge over unnamed creek	CTH NN
Community based residential facility (CBRF)	New Life Lodge	N3155 County Road H

Facility Type	Facility Name	Address
Community based residential facility (CBRF)	Pinecrest of Lake Geneva	N3367 County Road NN
Community based residential facility (CBRF)	Prairie View Home	W4080 Palmer Road
Community based residential facility (CBRF)	Prairie View Home II	N3445 CTH NN
Community based residential facility (CBRF)	Runges CBRF for Developmentally Disabled	W3705 Loveland Road
Community based residential facility (CBRF)	Whispering Willows	W4517 Willow Bend Road
Dam	Lake Como (spillway)	none
Dam	Lake Geneva	none
Electric substation	Wisconsin Power & Light substation	CTH NN
Group day care	All About Children	N3241 County Road H
Group day care	Calvary Maranatha Preschool	Highway 50 and Harris Road
Group day care	Little Red Preschool of Lake Como	N3445 Como Road, Suite 5
Hospital	Aurora Lakeland Medical Center	W3985 County Road NN
Hospital	Mercy Walworth Hospital & Medical Center	N2950 State Road 67
Mobile / Manufactured Home Park	Coachman's Terrace Manufactured Home Community	W3540 State Road 50
Municipal garage	Town of Geneva Municipal Garage	N3496 Como Road
Municipal garage	Walworth County Public Works	W4097 County Road NN
Municipal office and other	Geneva Town Hall	N3496 Como Road
Municipal office and other	Walworth County Health and Human Services	W4051 County Road NN
Police department	Town of Geneva Police Department	N3496 Como Road
School K-12	Lakeland School	W3905 CTH NN
School K-12	Woods Elementary School	N2575 Snake Road
Telecommunication	Telecommunication tower	Palmer Road
Telecommunication	Telecommunication tower	N3403 Bird Place
Telecommunication	Telecommunication tower	W2835 Krueger Road
Telecommunication	Telecommunication tower	CTH H
Telecommunication	Telecommunication tower	none
Telecommunication	Telecommunication tower (Pinnacle Towers LLC)	CTH NN
Utility office/yard	Lake Como Sanitary District Office	N3420 Dell Place
Water facility	Water tower - Lake Como Sanitary District No. 1	N3420 Dell Place
Water facility	Water tower (Geneva National - private)	Palmer Road
Town of La Grange		
Adult family home (AFH)	Amanda Lindner Adult Family Care	W5069 Farm Village
Adult family home (AFH)	Community Living Arrangements - Dunbar	W4911 Mallard Drive
Adult family home (AFH)	Heart Prairie Way	W6359 Territorial Road

Facility Type	Facility Name	Address
Bridge	Bridge over unnamed creek	STH 12
Community based residential facility (CBRF)	Country Home	N8525 Highway H
Community based residential facility (CBRF)	Fair View	W5903 STH 12
Community based residential facility (CBRF)	Kettle View	N8603 Duffin Road
Dam	Cedar Grove	none
Dam	Lauderdale Lake	none
Dam	Motl, Laurene	none
Fire department	Lauderdale-La Grange Fire Department Inc.	W6080 STH 12
Municipal garage	Town of La Grange Highway Department	N8530 County Road H
Municipal office and other	La Grange Town Hall	N7899 County Road H
Natural gas facility	Guardian Pipeline gas facility	STH 12
Natural gas facility	Natural gas facility	W5905 STH 12
Telecommunication	Telecommunication tower	W6586 Territorial Road
Telecommunication	Telecommunication tower	STH 12 and Tamarack Road
Town of Lafayette		
Adult family home (AFH)	Jodis Home	W3928 Potter Road
Bridge	Bridge over Sugar Creek	I-43 (north bound)
Bridge	Bridge over Sugar Creek	I-43 (south bound)
Bridge	Bridge over Sugar Creek	CTH ES
Bridge	Bridge over unnamed creek	I-43
Bridge	Bridge over unnamed creek	I-43
Bridge	Bridge over unnamed creek	STH 11
Dam	Droster, Elmer	none
Municipal garage	Lafayette Town Garage	W2960 State Road 11
Municipal office and other	Lafayette Town Hall	W4614 Potter Road
Telecommunication	Telecommunication tower	CTH D
Telecommunication	Telecommunication tower	E Geneva Street (CTH NN)
Telecommunication	Telecommunication tower	W4889 CTH ES
Telecommunication	Wisconsin, State of	N6471 Woodridge Drive
Town of Linn		
Adult family home (AFH)	Country Joy	N501 Zenda Road
Bridge	Bridge over unnamed creek	CTH B
Bridge	Bridge over unnamed creek	CTH B
Bridge	Bridge over unnamed creek	STH 120

Facility Type	Facility Name	Address
Bridge	Bridge over unnamed creek	CTH B
Bridge	Bridge over West Branch Nippersink Creek	STH 120
Electric substation	Electric substation	N1479 Zenda Road
Fire department	Town of Linn Fire/EMS	N1457 Hillside Road
Municipal garage	Town of Linn Garage	N611 Zenda Road
Municipal office and other	Linn Town Hall	W3728 Franklin Walsh Street
Police department	Linn Township Police Department	W3728 Franklin Walsh Street
Post office	Post Office - Zenda	W3724 Franklin Walsh Street
School K-12	Reek Elementary School	W4094 S Lake Shore Drive
School K-12	Traver Elementary School	W3490 Linton Road (CTH BB)
Telecommunication	Telecommunication tower	W4121 CTH B
Telecommunication	Telecommunication tower	W4328 Linton Road (CTH BB)
Telecommunication	Telecommunication tower	N1459 Hillside Road
Town of Lyons		
Adult family home (AFH)	Geneva Territory	6582 Lakeside Road
Bridge	Bridge over Como Creek	STH 120
Bridge	Bridge over Ivanhoe Creek	STH 50
Bridge	Bridge over Ore Creek	STH 120
Bridge	Bridge over Ore Creek	STH 36
Bridge	Bridge over Ore Creek	STH 36
Bridge	Bridge over unnamed creek	STH 50
Bridge	Bridge over unnamed creek	STH 36
Bridge	Bridge over unnamed creek	STH 36
Bridge	Bridge over unnamed creek	STH 36
Bridge	Bridge over White River	STH 36
Community based residential facility (CBRF)	Artisan Lake Geneva	6722 Highway 50 East
Electric substation	Wisconsin Electric Power substation	7093 STH 36
Fire department	Town of Lyons Fire Department	6339 Hospital Road
Mobile / Manufactured Home Park	Country Estates	Hospital Road
Mobile / Manufactured Home Park	Unnamed park	Motor Drive off of STH 36
Municipal garage	Town of Lyons Highway Garage	6339 Hospital Road
Municipal office and other	Lyons Town Hall	6339 Hospital Road
Natural gas facility	Natural gas facility	Hospital Road and STH 120
Post office	Post Office - Lyons	1447 Mill Street

Facility Type	Facility Name	Address
Post office	Post Office - Springfield	7210 Springfield Road
School K-12	Cornerstone Christian Academy	1553 Church Street
School K-12	Lyons Center School	1622 Mill Street
School K-12	Mount Zion Christian School	2330 Highway 120
Telecommunication	Telecommunication tower	STH 36
Telecommunication	Telecommunication tower	6060 STH 50
Telecommunication	Telecommunication tower	STH 50
Telecommunication	Telecommunication tower	STH 50
Wastewater facility	Sanitary District #2	5996 Clearwater Court
Town of Richmond		
Adult family home (AFH)	Kindred Hearts Family Home	N7227 Woodfield Lane
Campground	McIntyres Resort	N6471 Milwaukee Road
Campground	Scenic Ridge Campground	W7991 R&W Townline Road
Campground	Snug Harbor Inn Campground on Turtle Lake	W7785 Wisconsin Parkway
Community based residential facility (CBRF)	Richmond Way	N6032 STH 89
Dam	Jackley Dam #1	none
Dam	Jackley Dam #2	none
Dam	Jackley Dam #3	none
Dam	Turtle Lake	Turtle Lake Road
Dam	Turtle Valley Central Phase	none
Electric substation	WE Energy Substation	N6229 Church Road
Mobile / Manufactured Home Park	Snug Harbor Manufactured Home Community	W7772 Wisconsin Parkway
Municipal garage	Town of Richmond Municipal Garage	W9046 CTH A
Municipal office and other	Richmond Town Hall	W9046 CTH A
Telecommunication	Telecommunication tower	W8354 CTH A
Telecommunication	Telecommunication tower	STH 89
Telephone facility	Wisconsin Telephone Company	N6208 Church Road
Town of Sharon		
Bridge	Bridge over Piskasaw	STH 67
Bridge	Bridge over unnamed creek	CTH X
Bridge	Bridge over unnamed creek	CTH B
Bridge	Bridge over unnamed creek	CTH C
Bridge	Bridge over unnamed creek	CTH K
Bridge	Bridge over unnamed creek	CTH O

Facility Type	Facility Name	Address
Bridge	Bridge over unnamed creek	CTH B
Bridge	Bridge over unnamed creek	CTH B
Electric substation	Electric substation	STH 67
Fire department	Sharon Fire and Rescue	182 Park Avenue
Municipal garage	Town of Sharon Public Works and Garage	N1097 Bollinger Road
Municipal office and other	Sharon Town Hall	N1097 Bollinger Road
Natural gas facility	Natural gas facility	N1146 CTH C
Telecommunication	Telecommunication tower	Temperance Road
Telecommunication	Telecommunication tower (Lakehead Pipe Line)	SD Townline Road
Wastewater facility	Village of Walworth and Village of Fontana Wastewater Treatment Plant	N840 Chilson Road
Wastewater facility	Wastewater treatment plant	N262 Saltbox Road
Town of Spring Prairie		
Bridge	Bridge over Honey Creek	CTH D
Bridge	Bridge over Sugar Creek	STH 120
Bridge	Bridge over unnamed creek	CTH DD
Bridge	Bridge over unnamed creek	STH 120
Bridge	Bridge over unnamed creek	CTH DD
Bridge	Bridge over unnamed creek	STH 120
Bridge	Bridge over unnamed creek	STH 11
Bridge	Bridge over unnamed creek	STH 120
Bridge	Bridge over White River	STH 11
Dam	Honey Lake	none
Dam	Roubik, Charles J.	none
Municipal garage	Town of Spring Prairie Municipal Garage	N6097 STH 120
Municipal office and other	Spring Prairie Town Hall	N6097 STH 120
Telecommunication	Telecommunication tower	Spring Prairie Road
Telecommunication	Telecommunication tower	STH 120
Telecommunication	Telecommunication tower	CTH D
Town of Sugar Creek		
Bridge	Bridge over Sugar Creek	CTH H
Bridge	Bridge over Sugar Creek	CTH ES
Bridge	Bridge over unnamed creek	STH 12 67
Campground	Willow Run RV Condo Association	W4945 County Road ES
Community based residential facility (CBRF)	Just Like Home IV	W5140 County Road A

Facility Type	Facility Name	Address
Dam	Turtle Valley Phase III	none
Electric substation	Wisconsin Electric Co substation	W5567 County Road A
Electric substation	Wisconsin Electric substation	N5843 and N5825 Voss Road
Group day care	Lakeland's Little Learners-Tibbets	W5218 County Road A
Municipal garage	Town of Sugar Creek Municipal Garage	N6641 CTH H
Municipal office and other	Sugar Creek Town Hall	N6641 CTH H
School K-12	Tibbets Elementary School	W5218 County Road A
Telephone facility	TDS Telephone substation	N7105 CTH H
Telephone facility	TDS Telephone substation	W5119 Kenosha Drive
Town of Troy		
Adult family home (AFH)	Mackenzie Adult Family Home	W4855 State Road 20
Bridge	Bridge over Honey Creek	CTH ES
Campground	Alice Chester Center	N8651 Town Line Road
Campground	Timber Lee Christian Center	N8705 Scout Road
Dam	Donnelly	none
Dam	Kettle Moraine Estates, Corp	none
Dam	Pabst	none
Dam	Pabst Diversion	none
Fire department	Troy Center Fire Department	N8870 Briggs Street
Mobile / Manufactured home park	Troy Terrace Mobile Home Park	N9685 Nature Road
Municipal garage	Town of Troy Municipal Garage	N8851 County Road N
Municipal office and other	Troy Town Hall	N8870 Briggs Street
Telecommunication	Telecommunication tower	W2620 CTH J
Telecommunication	Telecommunication tower	N7339 Town Line Road
Town of Walworth		
Community based residential facility (CBRF)	Inspiration Ministries	N2270 Highway 67
Municipal garage	Town of Walworth Municipal Garage	W6741 Brich Church Road
Municipal office and other	Town of Walworth Town Hall	W6741 Brich Church Road
Residential care apartment complex (RCAC)	Inspiration Ministries	N2270 Highway 67
School K-12	Faith Christian School	W5525 Highway 67
Telecommunication	Telecommunication tower (Nextel, Sprint)	W Main Street
Town of Whitewater		
Adult family home (AFH)	Opal House	N9633 Howard Road
Adult family home (AFH)	White Pines	N7453 CTH P

Facility Type	Facility Name	Address
Bridge	Bridge over Bluff Creek	CTH P
Bridge	Bridge over unnamed creek	STH 89
Bridge	Bridge over Whitewater Creek	US Highway 59
Campground	Camp Joy	W7725 Kettle Moraine Drive
Campground	Hickory Woods Group Camp	Hi-Lo Road
Campground	Whitewater Lakes-East (Wis DNR)	N8096 Hi-Lo Road
Campground	Whitewater Lakes-West (Wis DNR)	N8095 Hi-Lo Road
Community based residential facility (CBRF)	Hidden View	N8425 STH 89
Community based residential facility (CBRF)	Sapphire House	W7332 STH 12
Dam	Rice Lake	none
Dam	Whitewater Lake	none
Electric substation	Wisconsin Power Co substation	Clover Valley Road
Group day care	At School Programs-Lakeview	W8363 RW Townline Road
Group day care	RWCFS Lakeview Head Start Center	W8363 RW Townline Road
Municipal garage	Town of Whitewater Highway Department	W8590 Willis Ray Road
Municipal office and other	Whitewater Town Hall	W8590 Willis Ray Road
Natural gas facility	Northern Natural Gas	W7960 Reliance Road
School K-12	Lakeview Elementary School	W8363 RW Townline Road
Telecommunication	Telecommunication tower	Taylor Road and STH 59
Telecommunication	Telecommunication tower	W7596 STH 12
Telecommunication	Telecommunication tower (Walworth County)	W8361 RW Townline Road
Village of Bloomfield		
Dam	Bloomfield Wetland Restoration	none
Dam	Grethe	none
Dam	Lake Tombeau	none
Dam	Powers Lake	none
Dam	Warren Smadbeck	none
Fire department	Bloomfield Genoa City Fire & Rescue	N1113 Clover Road
Group day care	RWCFS Star Center Head Start Center	W1380 Lake Geneva Highway
Municipal office and other	Bloomfield Town Hall	1100 Town Hall Road
Police department	Bloomfield Township Police Department	1100 Town Hall Road
Post office	Post Office - Pell Lake	W1265 Park Road
School K-12	Star Center Elementary School	W1380 Lake Geneva Highway
Telecommunication	Telecommunication tower	Pell Lake Drive

Facility Type	Facility Name	Address
Telecommunication	Telecommunication tower (Cingular)	Pell Lake Drive
Telecommunication	Telecommunication tower (Nextel)	W1031 Rosewood Road
Wastewater facility	Pell Lake Sanitary District 1	W974 Pell Lake Road
Wastewater facility	Pell Lake Sanitation District #1 wastewater plant	N1183 CTH U
Water facility	Water tower - Pell Lake Sanitary District	N1555 Clover Road
Village of Darien		
Adult family home (AFH)	P & J Assisted Living	125 E Beloit Street
Bridge	Bridge over unnamed creek	W Beloit Street (CTH X)
Community based residential facility (CBRF)	Pleasant Villa for Seniors LLC	315 W Beloit Street
Fire department	Darien Fire Department	311 W Madison Street
Health care clinic	Darien Medical Center (Beloit Memorial Hospital)	300 W Bella Vista Drive
Library	Darien Public Library	Park Street
Municipal garage	Village of Darien Municipal Garage	323 W Madison Street
Municipal office and other	Darien Village Hall	24 E Wisconsin Street
Police department	Darien Police Department	24 E Wisconsin Street
Post office	Post Office - Darien	1 E Beloit Street
School K-12	Darien Elementary School	125 S Walworth Street
Senior center	Darien Senior Center	Park Street
Telephone facility	Verizon telephone facility	51 Wisconsin Street
Wastewater facility	Wastewater facility	Sharon Street
Water facility	Water tower	Oak Street
Water facility	Water tower	N Badger Parkway
Village of East Troy		
Bridge	Bridge over unnamed creek	I-43 (north bound)
Bridge	Bridge over unnamed creek	I-43 (south bound)
Bridge	Bridge over unnamed creek	Church Street (CTH G)
Dam	East Troy	Highway 120
Electric substation	Wisconsin Electric Co substation	Byrnes Street
Group day care	Bright Beginnings Day Care	2541 E Main Street, Unit F
Group day care	Bright Beginnings Day Care LLC	2040 Beulah Avenue
Group day care	Little Angel Learning Center	2141 Mill Street
Group day care	Noahs Ark Christian Day Care Center	2942 Austin Street
Health care clinic	Aurora Health Center - East Troy	2483 Corporate Circle Drive
Library	East Troy Lions Public Library	3094 Graydon Avenue

Facility Type	Facility Name	Address
Mobile / Manufactured Home Park	Skyview Terrace	2742 E Main Street
Municipal garage	Village of East Troy Dept. of Public Works	2861 Austin Street
Municipal garage	Village of East Troy Municipal Garage	2104 Young Street
Municipal office and other	East Troy Village Hall	2015 Energy Drive
Nursing home	East Troy Manor	3271 North Street
Police department	East Troy Village Police Department	2015 Energy Drive
Post office	Post Office - East Troy	2099 Mill Street
Public-use airport	East Troy Municipal Airport	2085 Highway L
Residential care apartment complex (RCAC)	Brolen Park	2191 Church Street
School K-12	Byrnes Elementary School	2043 Division Street
School K-12	Doubek Elementary School	2040 Beulah Avenue
School K-12	East Troy High School	3128 Graydon Avenue
School K-12	East Troy Middle School	3143 Graydon Avenue
School K-12	Good Shepherd Lutheran School	1936 Emery Street
School K-12	Prairie View Elementary School	2131 Townline Road
School K-12	Saint Pauls Lutheran School	2665 North Street
School K-12	Saint Peters Elementary School	3001 Elm Street
Telecommunication	Telecommunication tower	2485 or 2491 Church Street (STH 120 CTH G)
Telecommunication	Telecommunication tower	Austin Street
Telecommunication	Telecommunication tower (Nextel)	2029 Young Street
Telephone facility	CenturyTel Telephone facility	2116 Clark Street
Wastewater facility	Wastewater treatment plant	2104 Young Street
Water facility	Water tower	2485 or 2491 Church Street (STH 120 CTH G)
Water facility	Water tower	2029 Young Street
Water facility	Water well #5	3219 North Street
Water facility	Water well #5	2028 West
Water facility	Water well #7	2802 Oakmont
Water facility	Water well #8	3103 North Street
Village of Fontana on Geneva Lake		
Fire department	Fontana Volunteer Fire Department and Rescue Squad	190 Douglas Street
Library	Fontana Public Library	166 2nd Avenue
Municipal garage	Fontana Public Works	300 Wild Duck Road
Municipal office and other	Fontana-on-Geneva Lake Village Hall	175 Valley View Drive
Police department	Fontana Police Department	185 Douglas Street

Facility Type	Facility Name	Address
Post office	Post Office - Fontana	185 3rd Avenue
School K-12	Fontana Elementary School	450 S Main Street
Telecommunication	Telecommunication tower	300 Wild Duck Road
Water facility	Water tower	300 Wild Duck Road
Water facility	Water tower	519 S Lakeshore
Water facility	Water well	504 Lake Street
Water facility	Water well	W5962 Brick Church Road
Water facility	Water well	W5992 Brick Church Road
Water facility	Water well	140 Mayflower
Water facility	Water well	140 Tarrant Court
Village of Genoa City		
Adult family home (AFH)	We're Just Like Family	W1313 Bernice Road
Bridge	Bridge over North Branch Nippersink Creek	Main Street (CTH B)
Community based residential facility (CBRF)	Burr Oak Manor	264 Walworth Street
Community based residential facility (CBRF)	Genoa City Retirement Home	1201 County Road H
Group day care	Sommerschool Childcare and Learning	328 Freeman Street
Library	Genoa City Public Library	126 Freeman
Municipal office and other	Genoa City Village Hall	715 Walworth Street
School K-12	Brookwood Elementary School	630 Kossuth Street
School K-12	Brookwood Middle School	1020 Hunters Ridge
Wastewater facility	Wastewater treatment plant	1st Street
Water facility	Water tower	Elizabeth Lane
Water facility	Water tower	Gideon Court
Village of Sharon		
Adult family home (AFH)	Johnson House	216 Martin Street
Group day care	RWCFS Sharon Community Head Start Center	104 E School Street
Health care clinic	Mercy Sharon Medical Center	118 Plain Street
Library	Brigham Memorial Library	131 Plain Street
Mobile / Manufactured Home Park	Sharon Estates	Park Road
Municipal garage	Sharon Municipal Garage	180 George Street
Municipal office and other	Sharon Village Hall	125 Plain Street
Police department	Sharon Police Department	125 Plain Street
Post office	Post Office - Sharon	199 Walworth Street
School K-12	Sharon Community School	104 E School Street

Facility Type	Facility Name	Address
Telephone facility	Sharon Telephone Company	105 Plain Street
Water facility	Water well	Center Street
Water facility	Water well	178 George Street
Village of Walworth		
Adult family home (AFH)	Valeries Home	208 Madison Street
Community based residential facility (CBRF)	Golden Years Assisted Living Residence	270 Ridge Road
Electric substation	Wisconsin Power & Light substation	520 N Main Street
Fire department	Walworth Fire Department	247 N Main Street
Group day care	Little Professors After School Care	121 Beloit Street
Group day care	Little Professors Learning Center	125 N State Highway 67
Health care clinic	Aurora Health Center - Walworth	525 Kenosha Street, Suite A
Library	Walworth Memorial Library	101 Maple Avenue
Municipal garage	Village of Walworth Public Works Department	121 Badger Street
Municipal office and other	Walworth Village Hall	227 N Main Street
Nursing home	Golden Years Health Care Center	270 Ridge Road
Police department	Walworth Police Department	227 N Main Street
Post office	Post Office - Walworth	206 N Main Street
Residential care apartment complex (RCAC)	Golden Years Retirement Village	270 Ridge Road
School K-12	Big Foot High School	401 Devils Lane
School K-12	Walworth Christian School	119 Phillips Avenue
School K-12	Walworth Elementary and Middle School	121 Beloit Street
Telecommunication	Telecommunication tower	Townhall Road (N Main Street)
Water facility	Water tower	Townhall Road (N Main Street)
Water facility	Water well	Read Street
Village of Williams Bay		
Campground	Conference Point Camp	300 Conference Point Road
Campground	Holiday Home Camp	Holiday Avenue
Campground	Norman B. Barr Camp	483 Outing Street
Electric substation	Electric substation	Theater Road
Fire department	Williams Bay Volunteer Fire Department and Rescue Squad	5 E Geneva Street
Group day care	Jerris Kidz	139 Congress Street
Library	Barrett Memorial Library	65 W Geneva Street
Municipal garage	Williams Bay Street Department	230 Williams Street
Municipal office and other	Williams Bay Recreation Department Office	310 Elkhorn Road

Facility Type	Facility Name	Address
Municipal office and other	Williams Bay Village Hall	250 Williams Street
Nursing home	Williams Bay Care Center	146 Clover Street
Police department	Williams Bay Police Department	250 Williams Street
Post office	Post Office - Williams Bay	129 N Walworth Avenue
Residential care apartment complex (RCAC)	Sherwood Lodge	116 Cherry Street
School K-12	Williams Bay Elementary School	139 Congress Street
School K-12	Williams Bay High School	500 W Geneva Street
School K-12	Williams Bay Junior High School	500 W Geneva Street
School Post-secondary	George Williams College of Aurora University	350 Constance Boulevard
Telephone facility	Ameritech Telephone	53 Cherry Street
Utility office/yard	Williams Bay Water Department	155 Elkhorn Road
Water facility	Water tower	Theater Road
Water facility	Water tower	240 Wesley Street
Water facility	Water tower	Potawatomi Road
Water facility	Water tower	Collie Street
Water facility	Well #1	155 Elkhorn
Water facility	Well #2	Olive Street
Water facility	Well #3	N Harris Road

WEATHER-RELATED EVENTS; WALWORTH COUNTY: 1950 THROUGH MAY 2019

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Drought	348	Southern WI	8/1/2002	n/a	0	0	0	\$4.4M
	367	South Eastern WI	8/1/2003	n/a	0	0	0	0
	369	Southern WI	9/1/2003	n/a	0	0	0	0
	370	Southern WI	10/1/2003	n/a	0	0	0	0
	370	Southern WI	11/1/2003	n/a	0	0	0	0
	374	Southern WI	12/1/2003	n/a	0	0	0	0
	413	Southern WI	7/1/2005	n/a	0	0	0	0
	424	Southern WI	8/1/2005	n/a	0	0	0	0
	427	Southern WI	9/1/2005	n/a	0	0	0	0
	435	Southern WI	10/1/2005	n/a	0	0	0	0
	436	Southern WI	11/1/2005	n/a	0	0	0	0
	478	South Eastern WI	7/1/2007	n/a	0	0	0	\$50K
	-	Walworth County	7/1/2007	n/a	0	0	0	\$50K
	-	Walworth County	7/1/2012	n/a	0	0	0	0
	-	Walworth County	10/1/2012	n/a	0	0	0	0
	-	Walworth County	11/1/2012	n/a	0	0	0	0
Heat [6]	104	Statewide	6/14/1994	n/a	0	0	0	0
	115	Statewide	6/17/1995	n/a	9 / 0	0	0	0
	116	Statewide	7/13/1995	n/a	57 / 0	0	0	0
	137	Statewide	10/12/1995	n/a	0	0	0	0
	227	Southern WI	11/23/1998	n/a	0	0	0	0
	228	Southern WI	12/1/1998	n/a	0	0	0	0
	250	Southern WI	7/4/1999	n/a	0	0	0	0
	251	Southern WI	7/23/1999	n/a	0	0	0	0
	253	Southern WI	7/29/1999	n/a	8 / 0	0	0	0
	254	South Central WI	11/8/1999	n/a	0	0	0	0
	255	Southern WI	11/13/1999	n/a	0	0	0	0
	309	Southern WI	7/21/2001	n/a	2 / 0	0	0	0
	312	South Eastern WI	7/31/2001	n/a	0	0	0	0
	314	Southern WI	8/6/2001	n/a	4 / 0	0	0	0
	336	Southern WI	4/15/2002	n/a	1 / 0	0	0	0
	341	Walworth	6/20/2002	n/a	1 / 0	0	0	0
	342	South Eastern WI	6/22/2002	n/a	1 / 0	0	0	0
	343	Southern WI	6/30/2002	n/a	0	0	0	0
	344	Southern WI	7/1/2002	n/a	0	0	0	0
	345	Southern WI	7/8/2002	n/a	0	0	0	0
	346	Southern WI	7/21/2002	n/a	0	0	0	0
	420	Southern WI	7/24/2005	n/a	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Heat – continued	457	South Central WI	7/16/2006	n/a	0	0	0	0
	461	Southern WI	7/30/2006	n/a	0	40 / 0	0	0
	462	Southern WI	8/1/2006	n/a	2 / 0	0	0	0
	-	Walworth County	6/23/2009	n/a	0	0	0	0
	-	Walworth County	8/11/2010	n/a	0	0	0	0
	-	Walworth County	7/17/2011	n/a	0	0	0	0
	-	Walworth County	7/21/2011	n/a	0	0	0	0
	-	Walworth County	6/28/2012	n/a	0	0	0	0
	-	Walworth County	7/3/2012	n/a	0	0	0	0
	-	Walworth County	7/16/2012	n/a	0	0	0	0
	-	Walworth County	7/23/2012	n/a	0	0	0	0
	-	Walworth County	7/25/2012	n/a	0	0	0	0
	-	Walworth County	7/16/2013	n/a	0	0	0	0
	-	Walworth County	7/21/2016	n/a	0	0	0	0
	-	Walworth County	6/16/2018	n/a	0	0	0	0
	-	Walworth County	6/29/2018	n/a	0	0	0	0
	-	Walworth County	7/4/2018	n/a	0	0	0	0
	-	Walworth County	7/19/2019	n/a	0	0	0	0
Extreme Cold	95	Statewide	1/13/1994	n/a	0	0	0	0
	141	Statewide	12/9/1995	n/a	2 [1]	21 / 0	0	0
	143	Walworth	1/9/1996	n/a	1 / 1	0	0	0
	145	Walworth	1/18/1996	n/a	1 / 1	0	0	0
	148	Southern WI	1/30/1996	n/a	2 / 0	0	0	0
	149	Southern WI	1/31/1996	n/a	0	10 / 0	0	0
	150	Southern WI	2/1/1996	n/a	4 / 0	18 / 0	0	0
	166	South Central WI	1/17/1997	n/a	0	3 / 0	\$20K	0
	230	Southern WI	1/5/1999	n/a	0	0	0	0
	437	Southern WI	12/18/2005	n/a	0	0	0	0
	442	Southern WI	2/17/2006	n/a	0	0	0	0
	443	Southern WI	2/18/2006	n/a	0	0	0	0
	-	Walworth County	2/3/2007	n/a	0	0	\$2K	0
	-	Walworth County	1/19/2008	n/a	0	0	0	0
	493	South Eastern WI	1/30/2008	n/a	0	0	0	0
	-	Walworth County	2/10/2008	n/a	0	0	0	0
	-	Walworth County	12/21/2008	n/a	0	0	0	0
	-	Walworth County	1/14/2009	n/a	0	0	0	0
	-	Walworth County	1/15/2009	n/a	0	0	0	0
	-	Walworth County	1/21/2011	n/a	0	0	0	0
	-	Walworth County	1/6/2014	n/a	0	0	0	0
	-	Walworth County	1/29/2019	n/a	0	0	0	0
Flood/Flash Flooding	133	Whitewater	8/16/1995	n/a	0	0	0	0
	157	Walworth	6/17/1996	n/a	0	0	\$200K	\$24M
	215	Sharon	6/26/1998	n/a	0	0	0	0
	222	Delevan	8/5/1998	n/a	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Flood/Flash Flooding – continued	223	Whitewater	8/5/1998	n/a	0	0	\$30K	0
	224	Whitewater	8/5/1998	n/a	0	0	\$100K	0
	248	South Eastern WI	6/13/1999	n/a	0	0	\$900K	0
	249	Delevan	6/28/1999	n/a	0	0	0	0
	276	Walworth	6/13/2000	n/a	0	0	\$850K	\$500K
	277	Lake Geneva	6/13/2000	n/a	0	4	\$350K	\$300K
	282	Richmond	7/2/2000	n/a	0	0	0	0
	284	Pell Lake	7/10/2000	n/a	0	0	\$346K	\$300K
	297	Southern WI	2/9/2001	n/a	0	0	\$325K	0
	351	East Troy	8/12/2002	n/a	0	0	\$5K	0
	356	Walworth	9/19/2002	n/a	0	0	0	0
	388	Walworth County	6/1/2004	n/a	0	0	\$500K	\$3M
	446	Delevan	3/13/2006	n/a	0	0	\$40K	0
	484	Sharon	8/19/2007	n/a	0	0	\$150K	0
	485	Whitewater	8/22/2007	n/a	0	0	\$150K	\$200K
	-	Whitewater	6/8/2008	n/a	0	0	\$150K	\$1M
	-	Delavan	6/12/2008	n/a	0	0	\$525.6K	\$4.25M
	-	Whitewater	06/19/2009	n/a	0	0	\$10K	0
	-	Sharon	6/26/2013	n/a	0	0	\$4K	\$2K
	-	La Grange	7/12/2017	n/a	0	0	\$10M	\$30K
	-	La Grange	7/12/2017	n/a	0	0	\$1K	\$1K
	-	Whitewater	2/20/2018	n/a	0	0	\$5K	0
	-	Sharon	9/12/2019	n/a	0	0	\$15K	0
	-	Genoa City	9/13/2019	n/a	0	0	\$20K	0
	-	Richmond	4/29/2020	n/a	0	0	\$50K	0
Dense Fog [7]	256	South Central WI	11/13/1999	n/a	0	0	0	0
	257	Walworth County	12/3/1999	n/a	0	0	0	0
	258	South Central WI	12/12/1999	n/a	0	0	0	0
	259	Southern WI	1/9/2000	n/a	0	0	0	0
	261	Southern WI	2/25/2000	n/a	0	0	0	0
	264	Southern WI	3/21/2000	n/a	0	0	0	0
	287	South Central WI	8/23/2000	n/a	0	0	0	0
	288	South Central WI	8/24/2000	n/a	0	0	0	0
	292	Walworth County	10/24/2000	n/a	0	0	0	0
	293	South Central WI	10/24/2000	n/a	0	0	0	0
	296	South Central WI	1/12/2001	n/a	0	0	0	0
	298	South Central WI	2/24/2001	n/a	0	0	0	0
	299	Southern WI	3/22/2001	n/a	0	0	0	0
	301	Southern WI	4/7/2001	n/a	0	0	0	0
	304	South Eastern WI	5/24/2001	n/a	0	0	0	0
	308	South Central WI	7/19/2001	n/a	0	0	0	0
	311	Southern WI	7/30/2001	n/a	0	0	0	0
	313	Southern WI	8/3/2001	n/a	0	0	0	0
	317	South Central WI	8/22/2001	n/a	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Dense Fog – continued	322	Walworth County	9/29/2001	n/a	0	0	0	0
	323	South Central WI	10/22/2001	n/a	0	0	0	0
	327	South Central WI	11/15/2001	n/a	0	0	0	0
	328	South Eastern WI	12/2/2001	n/a	0	0	0	0
	331	Southern WI	2/20/2002	n/a	0	0	0	0
	335	Southern WI	4/13/2002	n/a	0	0	0	0
	354	South Central WI	9/6/2002	n/a	0	0	0	0
	359	Southern WI	3/20/2003	n/a	0	0	0	0
	360	South Central WI	3/23/2003	n/a	0	0	0	0
	378	Southern WI	2/26/2004	n/a	0	0	0	0
	393	South Central WI	10/12/2004	n/a	0	0	0	0
	395	South Central WI	12/9/2004	n/a	0	0	0	0
	398	Southern WI	12/29/2004	n/a	0	0	0	0
	400	Southern WI	1/11/2005	n/a	0	0	0	0
	428	South Central WI	9/4/2005	n/a	0	0	0	0
	438	South Central WI	12/27/2005	n/a	0	0	0	0
	439	South Eastern WI	1/3/2006	n/a	0	0	0	0
	444	South Central WI	3/9/2006	n/a	0	0	0	0
	448	South Central WI	3/29/2006	n/a	0	0	0	0
	450	Southern WI	5/9/2006	n/a	0	0	0	0
	467	Southern WI	9/14/2006	n/a	0	0	0	0
	468	South Central WI	9/15/2006	n/a	0	0	0	0
	-	Walworth County	12/11/2006	n/a	0	0	0	0
	-	Walworth County	12/21/2006	n/a	0	0	0	0
	-	Walworth County	3/9/2007	n/a	0	0	0	0
	-	Walworth County	3/23/2007	n/a	0	0	0	0
	475	South Central WI	3/25/2007	n/a	0	0	0	0
	-	Walworth County	6/1/2007	n/a	0	0	0	0
	486	South Eastern WI	10/1/2007	n/a	0	0	0	0
	488	South Central WI	12/19/2007	n/a	0	0	0	0
	-	Walworth County	12/21/2007	n/a	0	0	0	0
	-	Walworth County	1/5/2008	n/a	0	0	0	0
	-	Walworth County	2/4/2008	n/a	0	0	0	0
	-	Walworth County	9/21/2008	n/a	0	0	0	0
	-	Walworth County	12/26/2008	n/a	0	0	0	0
	-	Walworth County	2/9/2009	n/a	0	0	0	0
	-	Walworth County	3/7/2009	n/a	0	0	0	0
	-	Walworth County	4/30/2009	n/a	0	0	0	0
	-	Walworth County	9/4/2009	n/a	0	0	0	0
	-	Walworth County	9/10/2009	n/a	0	0	0	0
	-	Walworth County	9/12/2009	n/a	0	0	0	0
	-	Walworth County	3/7/2010	n/a	0	0	0	0
	-	Walworth County	3/10/2009	n/a	0	0	0	0
	-	Walworth County	5/21/2010	n/a	0	0	0	0
	-	Walworth County	12/30/2010	n/a	0	0	0	0
	-	Walworth County	2/2/2012	n/a	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Dense Fog – continued	-	Walworth County	2/15/2012	n/a	0	0	0	0
	-	Walworth County	3/24/2012	n/a	0	0	0	0
	-	Walworth County	10/22/2012	n/a	0	0	0	0
	-	Walworth County	11/16/2012	n/a	0	0	0	0
	-	Walworth County	11/20/2012	n/a	0	0	0	0
	-	Walworth County	12/1/2012	n/a	0	0	0	0
	-	Walworth County	12/3/2012	n/a	0	0	0	0
	-	Walworth County	12/3/2013	n/a	0	0	0	0
Funnel Cloud	125	Elkhorn	8/9/1995	n/a	0	0	0	0
	183	Lake Geneva	7/18/1997	n/a	0	0	0	0
	221	Williams Bay	8/5/1998	n/a	0	0	0	0
	244	Fontana	6/10/1999	n/a	0	0	0	0
	268	East Troy	5/8/2000	n/a	0	0	0	0
	403	Delevan	5/19/2005	n/a	0	0	0	0
	125	Elkhorn	8/9/1995	n/a	0	0	0	0
	-	Troy Center	07/22/2010	n/a	0	0	0	0
Hail [8]	15	Walworth County	8/3/1967	0.75 in.	0	0	0	0
	26	Walworth County	7/3/1975	1.75 in.	0	0	0	0
	29	Walworth County	9/4/1977	1.75 in.	0	0	0	0
	32	Walworth County	9/4/1979	1.75 in.	0	0	0	0
	40	Walworth County	7/16/1980	1.00 in.	0	0	0	0
	41	Walworth County	7/16/1980	1.00 in.	0	0	0	0
	42	Walworth County	7/16/1980	1.00 in.	0	0	0	0
	45	Walworth County	7/20/1980	2.50 in.	0	0	0	0
	46	Walworth County	7/20/1980	2.00 in.	0	0	0	0
	47	Walworth County	9/30/1981	1.75 in.	0	0	0	0
	62	Walworth County	9/22/1986	1.00 in.	0	0	0	0
	63	Walworth County	5/21/1987	0.75 in.	0	0	0	0
	64	Walworth County	5/21/1987	0.75 in.	0	0	0	0
	79	Walworth County	3/13/1990	1.75 in.	0	0	0	0
	101	Menomonee	6/11/1994	1.00 in.	0	0	0	0
	113	Fontana	6/7/1995	1.75 in.	0	0	0	0
	172	Genoa City	5/18/1997	0.75 in.	0	0	0	0
	188	East Troy	8/3/1997	1.00 in.	0	0	0	0
	225	Delevan	9/6/1998	0.75 in.	0	0	0	0
	242	Whitewater	6/10/1999	0.75 in.	0	0	0	0
	247	Richmond	6/11/1999	1.00 in.	0	0	0	0
	262	Lake Geneva	3/8/2000	0.75 in.	0	0	0	0
	263	Whitewater	3/8/2000	0.88 in.	0	0	0	0
	266	Darien	4/19/2000	2.00 in.	0	0	0	0
	267	East Troy	5/8/2000	1.25 in.	0	0	0	0
	269	Lake Geneva	5/8/2000	0.75 in.	0	0	0	0
	270	East Troy	5/18/2000	0.75 in.	0	0	0	0
	271	Lyons	5/18/2000	0.75 in.	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Hail – continued	272	Pell Lake	5/18/2000	1.00 in.	0	0	0	0
	273	Richmond	5/18/2000	0.75 in.	0	0	0	0
	279	Tibbet	6/30/2000	0.75 in.	0	0	0	0
	280	Darien	6/30/2000	0.75 in.	0	0	0	0
	281	Darien	6/30/2000	1.00 in.	0	0	0	0
	303	East Troy	5/14/2001	0.88 in.	0	0	0	0
	324	Darien	10/23/2001	1.75 in.	0	0	0	0
	325	Lyons	10/23/2001	1.00 in.	0	0	0	0
	333	La Grange	3/9/2002	0.75 in.	0	0	0	0
	347	Delavan	8/1/2002	0.75 in.	0	0	0	0
	348	Spring Prairie	8/1/2002	1.25 in.	0	0	0	0
	355	Whitewater	9/9/2002	0.75 in.	0	0	0	0
	363	Delavan	7/6/2003	0.75 in.	0	0	0	0
	379	Whitewater	3/1/2004	1.50 in.	0	0	0	0
	402	East Troy	3/30/2005	0.75 in.	0	0	0	0
	405	Delavan	6/4/2005	1.75 in.	0	0	0	0
	406	Honey Creek	6/4/2005	0.75 in.	0	0	0	0
	418	East Troy	7/23/2005	0.75 in.	0	0	0	0
	425	East Troy	8/18/2005	1.00 in.	0	0	0	0
	433	Lake Geneva	9/22/2005	1.00 in.	0	0	0	0
	434	Pell Lake	9/22/2005	1.00 in.	0	0	0	0
	445	Lake Geneva	3/11/2006	0.75 in.	0	0	0	0
	452	Lake Geneva	5/17/2006	0.75 in.	0	0	0	0
	453	Darien	5/17/2006	0.75 in.	0	0	0	0
	465	Fontana	8/25/2006	1.00 in.	0	0	0	0
	466	Lyons	8/25/2006	0.75 in.	0	0	0	0
	470	Little Prairie	10/2/2006	0.75 in.	0	0	0	0
	471	La Grange	10/2/2006	0.75 in.	0	0	0	0
	479	Whitewater	7/9/2007	0.75 in.	0	0	0	0
	481	Spring Prairie	7/9/2007	0.88 in.	0	0	0	0
	482	Williams Bay	7/9/2007	1.00 in.	0	0	0	0
	490	Zenda	1/7/2008	0.75 in.	0	0	0	0
	501	Sharon	4/25/2008	0.75 in.	0	0	0	0
	-	Walworth (County?)	6/6/2008	0.75 in.	0	0	0	0
	-	Lake Geneva	6/12/2008	1.00 in.	0	0	0	0
	-	La Grange	7/23/2009	0.75 in.	0	0	0	\$2K
	-	Allen Grove	9/21/2010	1.00 in.	0	0	0	0
	-	Darien	9/21/2010	0.88 in.	0	0	0	0
	-	Delavan Lake	9/21/2010	0.88 in.	0	0	0	0
	-	East Troy	9/21/2010	1.00 in.	0	0	0	0
	-	Whitewater	5/22/2011	1.25 in.	0	0	0	0
	-	Richmond	5/22/2011	1.75 in.	0	0	0	0
	-	Williams Bay	6/12/2013	1.00 in.	0	0	0	0
	-	Williams Bay	6/12/2013	0.88 in.	0	0	0	0
	-	Eagle	7/21/2013	1.00 in.	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Hail - continued	-	Richmond	8/30/2013	1.50 in.	0	0	0	0
	-	Delavan	8/30/2013	1.50 in.	0	0	0	0
	-	Delavan	8/30/2013	1.00 in.	0	0	0	0
	-	Delavan Airport	5/12/2014	1.00 in.	0	0	0	0
	-	Elkhorn	5/12/2014	1.50 in.	0	0	0	0
	-	Genoa City	6/17/2014	1.00 in.	0	0	0	0
	-	Genoa City	6/17/2014	0.75 in.	0	0	0	0
	-	Whitewater	6/18/2014	1.25 in.	0	0	0	0
	-	Lake Geneva	4/9/2015	1.00 in.	0	0	0	0
	-	Genoa City	4/9/2015	0.75 in.	0	0	0	0
	-	Pell Lake	4/9/2015	1.50 in.	0	0	0	0
	-	Elkhorn	5/28/2016	0.88 in.	0	0	0	0
	-	Lake Geneva	5/17/2017	1.00 in.	0	0	0	0
	-	East Troy	6/19/2017	1.00 in.	0	0	0	0
	-	Lake Beulah	7/6/2017	1.00 in.	0	0	0	0
	-	Bowers	7/6/2017	1.00 in.	0	0	0	0
	-	Lake Geneva	7/15/2017	0.75 in.	0	0	0	0
	-	Pell Lake	7/15/2017	1.00 in.	0	0	0	0
	-	Pell Lake	7/15/2017	1.00 in.	0	0	0	0
	-	Pell Lake	7/15/2017	1.00 in.	0	0	0	0
	-	Genoa City	7/15/2017	1.00 in.	0	0	0	0
	-	Genoa City	7/16/2017	1.00 in.	0	0	0	0
	-	Elkhorn	7/23/2017	1.00 in.	0	0	0	0
	-	Darien	5/2/2018	1.00 in.	0	0	0	0
	-	Fontana	5/2/2018	1.00 in.	0	0	0	0
	-	Williams Bay	5/2/2018	1.25 in.	0	0	0	0
	-	Williams Bay	5/2/2018	2.50 in.	0	0	\$1K	0
	-	Zenda	5/2/2018	1.75 in.	0	0	0	0
	-	Pell Lake	5/2/2018	1.75 in.	0	0	0	0
	-	Pell Lake	5/2/2018	1.50 in.	0	0	0	0
	-	Genoa City	5/2/2018	1.25 in.	0	0	0	0
	-	Genoa City	5/2/2018	1.75 in.	0	0	0	0
	-	Genoa City	5/14/2018	0.88 in.	0	0	0	0
	-	Como	6/1/2019	0.75 in.	0	0	0	0
	-	Lake Geneva	6/1/2019	1.25 in.	0	0	0	0
	-	Elkhorn	6/1/2019	0.75 in.	0	0	0	0
	-	Como	6/24/2019	0.75 in.	0	0	0	0
Heavy Rain	178	Lake Geneva	6/30/1997	n/a	0	0	\$4K	0
	320	Genoa City	9/18/2001	n/a	0	0	0	0
	372	Elkhorn	11/1/2003	n/a	0	0	0	0
	-	Darien	7/12/2008	n/a	0	0	0	0
	-	Elkhorn	5/12/2014	n/a	0	0	0	0
	-	Elkhorn Airport	5/12/2014	n/a	0	0	0	0
High Wind [9]	170	Walworth County	4/6/1997	70 kts.	0	0	\$120K	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
High Wind - continued	199	Southern WI	3/8/1998	50 kts.	0	0	\$215K / 150K	0
	226	Southern WI	11/10/1998	50 kts.	4 / 0	14 / 1	\$10.4M / 300K	\$1.6M / 0
	300	Southern WI	4/7/2001	71 kts.	0	1	0	0
	302	Southern WI	4/11/2001	58 kts.	0	0	0	0
	334	South Central WI	3/9/2002	50 kts.	0	0	\$73K	0
	373	Walworth County	11/12/2003	56 kts.	0	0	\$10K	0
	-	Walworth County	10/26/2010	51 kts.	0	0	\$15K	0
	-	Walworth County	2/19/2016	53 kts.	0	0	\$30K	0
	-	Walworth County	3/16/2016	50 kts.	0	0	\$7K	0
	-	Walworth County	3/8/2017	50 kts.	0	0	\$10K	0
Lightning	111	Williams Bay	6/6/1995	n/a	0	1	0	0
	120	Walworth	7/27/1995	n/a	0	1	0	0
	132	Walworth	8/9/1995	n/a	0	1	0	0
	179	Delavan	7/18/1997	n/a	0	0	\$3K	0
	187	Allen Grove	7/27/1997	n/a	0	0	\$10K	0
	189	Elkhorn	9/19/1997	n/a	0	0	\$50K	0
	190	Elkhorn	9/19/1997	n/a	0	1	0	0
	191	Sharon	9/19/1997	n/a	0	0	\$10K	0
	192	Walworth	9/19/1997	n/a	0	0	\$40K	0
	194	Lake Geneva	9/19/1997	n/a	0	0	\$50K	0
	195	Walworth	9/19/1997	n/a	0	0	\$100K	0
	234	Williams Bay	5/16/1999	n/a	0	0	\$3K	0
	235	Williams Bay	5/16/1999	n/a	0	0	\$3K	0
	241	Elkhorn	6/10/1999	n/a	0	3	0	0
	291	Walworth	9/11/2000	n/a	0	0	\$10K	0
	350	Whitewater	8/9/2002	n/a	0	0	\$20K	0
	365	East Troy	7/6/2003	n/a	0	8	0	0
	367	East Troy	7/31/2003	n/a	0	2	0	0
	408	Lyons	6/11/2005	n/a	0	0	\$15K	0
	455	La Grange	6/26/2006	n/a	0	0	\$2K	0
	456	La Grange	6/26/2006	n/a	0	0	\$1K	0
	463	Delavan	8/2/2006	n/a	0	0	\$50K	0
	464	Lake Geneva	8/24/2006	n/a	0	0	\$10K	0
	-	Whitewater	4/25/2008	n/a	0	0	\$100K	0
	-	Lake Geneva	5/2/2008	n/a	0	0	\$10K	0
Strong Wind [10]	196	Whitewater	9/29/1997	43 kts.	0	0	0	0
	274	Southern WI	5/24/2000	26 kts.	0	0	\$3K	0
	321	South Eastern WI	9/19/2001	49 kts.	0	0	0	0
	326	Southern WI	10/24/2001	49 kts.	0	0	0	0
	329	Southern WI	12/5/2001	26 kts.	0	0	\$105K	0
	383	Southern WI	3/7/2004	34 kts.	0	0	\$33K	0
	384	Southern WI	3/14/2004	39 kts.	0	0	\$52K	0
	385	Southern WI	4/18/2004	43 kts.	0	0	\$280K	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Strong Wind – continued	396	Southern WI	12/12/2004	40 kts.	0	0	\$34K	0
	441	Southern WI	1/24/2006	39 kts.	0	0	\$100K	0
	447	Southern WI	3/13/2006	39 kts.	0	0	\$65K	0
	449	South Central WI	3/31/2006	39 kts.	0	0	\$40K	0
	451	Southern WI	5/11/2006	36 kts.	0	0	\$20K	0
	-	Walworth County	2/22/2007	39 kts.	0	0	\$2K	0
	-	Walworth County	5/24/2007	39 kts.	0	0	\$2K	0
	-	Walworth County	8/27/2007	39 kts.	0	0	\$10K	0
	-	Walworth County	11/5/2007	39 kts.	0	0	\$5K	0
	489	South Central WI	12/23/2007	39 kts.	0	0	\$5K	0
	-	Walworth County	4/26/2008	44 kts.	0	0	\$5K	0
	-	Walworth County	11/26/2008	26 kts.	0	0	\$2K	0
	-	Walworth County	9/27/2009	43 kts.	0	0	\$5K	0
	-	Walworth County	10/6/2009	39 kts.	0	0	\$5K	0
	-	Walworth County	5/5/2010	39 kts.	0	0	\$10K	0
	-	Walworth County	9/7/2010	39 kts.	0	0	\$10K	0
	-	Walworth County	9/24/2010	39 kts.	0	0	\$1K	0
	-	Walworth County	1/1/2011	39 kts.	0	0	\$4K	0
	-	Walworth County	2/18/2011	26 kts.	0	0	\$2K	0
	-	Walworth County	4/15/2011	39 kts.	0	0	\$3K	0
	-	Walworth County	5/15/2011	39 kts.	0	0	\$5K	0
	-	Walworth County	9/29/2011	39 kts.	0	0	\$2K	0
	-	Walworth County	10/19/2011	39 kts.	0	0	\$2K	0
	-	Walworth County	11/13/2011	26 kts.	0	0	\$1K	0
	-	Walworth County	1/1/2012	28 kts.	0	0	\$1K	0
	-	Walworth County	6/18/2012	39 kts.	0	0	\$10K	0
	-	Walworth County	11/11/2012	41 kts.	0	0	\$3K	0
	-	Walworth County	1/18/2013	27 kts.	0	0	\$5K	0
	-	Walworth County	1/19/2013	41 kts.	0	0	\$5K	0
	-	Walworth County	4/11/2013	39 kts.	0	0	\$5K	0
	-	Walworth County	12/23/2015	43 kts.	0	0	\$1K	0
	-	Walworth County	12/4/2017	39 kts.	0	0	\$4K	0
	-	Walworth County	10/20/2018	39 kts.	0	0	\$1K	0
	-	Walworth County	2/24/2019	40 kts.	0	0	\$1K	0
	-	Walworth County	11/27/2019	42 kts.	0	0	\$5K	0
	-	Walworth County	4/30/2020	39 kts.	0	0	\$0.1K	0
Thunderstorm Winds [11]	2	Walworth County	7/3/1955	50 kts.	0	0	0	0
	5	Walworth County	8/3/1960	52 kts.	0	0	0	0
	7	Walworth County	7/19/1963	50 kts.	0	0	0	0
	8	Walworth County	7/19/1963	50 kts.	0	0	0	0
	11	Walworth County	3/21/1966	50 kts.	0	0	0	0
	12	Walworth County	3/21/1966	50 kts.	0	0	0	0
	17	Walworth County	7/12/1969	50 kts.	0	0	0	0
	18	Walworth County	7/16/1969	50 kts.	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Thunderstorm Winds – continued	19	Walworth County	7/17/1969	50 kts.	0	0	0	0
	21	Walworth County	6/1/1971	50 kts.	0	0	0	0
	24	Walworth County	6/16/1973	50 kts.	0	0	0	0
	25	Walworth County	6/20/1974	50 kts.	0	0	0	0
	27	Walworth County	6/12/1976	50 kts.	0	0	0	0
	28	Walworth County	8/13/1976	50 kts.	0	0	0	0
	33	Walworth County	9/4/1979	50 kts.	0	0	0	0
	35	Walworth County	7/5/1980	50 kts.	0	0	0	0
	36	Walworth County	7/15/1980	69 kts.	0	0	0	0
	37	Walworth County	7/15/1980	69 kts.	0	0	0	0
	38	Walworth County	7/15/1980	69 kts.	0	0	0	0
	39	Walworth County	7/15/1980	69 kts.	0	0	0	0
	43	Walworth County	7/16/1980	61 kts.	0	0	0	0
	44	Walworth County	7/16/1980	61 kts.	0	0	0	0
	48	Walworth County	7/3/1983	50 kts.	0	0	0	0
	49	Walworth County	7/17/1983	50 kts.	0	0	0	0
	50	Walworth County	7/18/1983	61 kts.	0	0	0	0
	51	Walworth County	7/19/1983	50 kts.	0	0	0	0
	52	Walworth County	7/19/1983	50 kts.	0	0	0	0
	53	Walworth County	7/19/1983	50 kts.	0	0	0	0
	54	Walworth County	8/16/1983	50 kts.	0	0	0	0
	55	Walworth County	8/27/1983	50 kts.	0	0	0	0
	56	Walworth County	9/6/1983	50 kts.	0	0	0	0
	57	Walworth County	6/6/1984	50 kts.	0	0	0	0
	58	Walworth County	7/9/1984	50 kts.	0	0	0	0
	59	Walworth County	9/9/1985	50 kts.	0	0	0	0
	60	Walworth County	6/27/1986	50 kts.	0	0	0	0
	61	Walworth County	7/6/1986	50 kts.	0	0	0	0
	65	Walworth County	5/21/1987	50 kts.	0	0	0	0
	66	Walworth County	8/16/1987	50 kts.	0	0	0	0
	67	Walworth County	8/16/1987	50 kts.	0	0	0	0
	68	Walworth County	8/16/1987	50 kts.	0	0	0	0
	70	Walworth County	8/4/1988	50 kts.	0	0	0	0
	71	Walworth County	8/18/1988	50 kts.	0	0	0	0
	72	Walworth County	4/25/1989	50 kts.	0	0	0	0
	73	Walworth County	6/26/1989	50 kts.	0	3	0	0
	74	Walworth County	6/26/1989	50 kts.	0	0	0	0
	75	Walworth County	7/27/1989	50 kts.	0	0	0	0
	76	Walworth County	7/27/1989	50 kts.	0	0	0	0
	77	Walworth County	8/4/1989	50 kts.	0	0	0	0
	78	Walworth County	8/5/1989	61 kts.	0	0	0	0
	81	Walworth County	6/29/1990	50 kts.	0	0	0	0
	82	Walworth County	10/14/1990	50 kts.	0	0	0	0
	83	Walworth County	3/27/1991	50 kts.	0	0	0	0
	84	Walworth County	7/7/1991	50 kts.	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Thunderstorm Winds – continued	86	Walworth County	7/7/1991	50 kts.	0	1	0	0
	87	Walworth County	7/7/1991	50 kts.	0	0	0	0
	88	Walworth County	9/9/1991	56 kts.	0	0	0	0
	89	Walworth County	6/17/1992	50 kts.	0	0	0	0
	90	Walworth County	6/17/1992	50 kts.	0	0	0	0
	91	Walworth County	6/17/1992	50 kts.	0	0	0	0
	102	Sharon	6/11/1994	60 kts.	0	0	0	0
	103	Sharon	6/11/1994	50 kts.	0	0	\$5K	\$5K
	109	Walworth	4/18/1995	50 kts.	0	0	0	0
	110	Walworth	6/6/1995	50 kts.	0	0	\$40K	0
	112	Lake Geneva	6/7/1995	50 kts.	0	0	0	0
	114	Delavan	6/7/1995	50 kts.	0	0	0	0
	117	Elkhorn	7/15/1995	50 kts.	0	0	0	0
	118	Delavan	7/27/1995	50 kts.	0	0	0	0
	119	Spring Prairie	7/27/1995	50 kts.	0	0	0	0
	121	Whitewater	8/9/1995	52 kts.	0	0	0	0
	122	Whitewater	8/9/1995	50 kts.	0	0	\$10K	0
	123	Troy Center	8/9/1995	50 kts.	0	0	\$10K	0
	124	Lake Geneva	8/9/1995	50 kts.	0	0	0	0
	126	East Troy	8/9/1995	50 kts.	0	0	0	0
	127	La Grange	8/9/1995	50 kts.	0	0	0	0
	128	Elkhorn	8/9/1995	56 kts.	0	0	0	0
	129	East Troy	8/9/1995	50 kts.	0	0	0	0
	130	Lake Geneva	8/9/1995	50 kts.	0	0	0	0
	131	Spring Prairie	8/9/1995	50 kts.	0	0	0	0
	134	Whitewater	8/28/1995	50 kts.	0	0	0	0
	135	Elkhorn	8/28/1995	50 kts.	0	0	0	0
	136	Genoa City	8/28/1995	50 kts.	0	0	0	0
	151	Sharon	4/19/1996	50 kts.	0	0	\$300K	0
	152	Genoa City	4/19/1996	50 kts.	0	0	\$10K	0
	153	Millard	6/2/1996	50 kts.	0	0	\$1K	0
	154	Delavan	6/2/1996	50 kts.	0	0	\$10K	0
	155	Walworth	6/2/1996	50 kts.	0	0	0	0
	156	Troy Center	6/2/1996	50 kts.	0	0	\$10K	0
	158	Whitewater	8/19/1996	50 kts.	0	0	\$20K	0
	159	Darien	8/19/1996	50 kts.	0	0	\$150K	0
	160	East Troy	10/29/1996	50 kts.	0	0	\$20K	0
	161	Lake Geneva	10/29/1996	50 kts.	0	0	\$20K	0
	162	Delavan	10/29/1996	50 kts.	0	0	\$25K	0
	163	Genoa City	10/29/1996	50 kts.	0	0	\$15K	0
	167	Walworth	4/5/1997	50 kts.	0	0	\$10K	0
	168	Whitewater	4/5/1997	50 kts.	0	0	\$5K	0
	169	Allen Grove	4/5/1997	50 kts.	0	0	\$5K	0
	173	Walworth	6/15/1997	50 kts.	0	0	\$5K	0
	174	East Troy	6/21/1997	50 kts.	0	0	\$2K	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Thunderstorm Winds – continued	175	Darien	6/24/1997	50 kts.	0	0	\$1K	0
	176	Lake Geneva	6/24/1997	50 kts.	0	0	\$4K	0
	177	Delavan	6/24/1997	56 kts.	0	0	\$1K	0
	180	Delavan	7/18/1997	50 kts.	0	0	\$1K	0
	181	Pell Lake	7/18/1997	50 kts.	0	0	\$1K	0
	184	Darien	7/26/1997	50 kts.	0	0	\$1K	0
	185	East Troy	7/26/1997	50 kts.	0	0	\$1K	0
	186	Lake Geneva	7/26/1997	50 kts.	0	0	\$1K	0
	193	Sharon	9/19/1997	50 kts.	0	0	\$250K	0
	200	Walworth	5/15/1998	50 kts.	0	0	\$12K	0
	201	Elkhorn	5/15/1998	50 kts.	0	0	\$4K	0
	202	Sharon	5/15/1998	50 kts.	0	0	\$1K	0
	203	La Grange	5/15/1998	50 kts.	0	0	\$1K	0
	204	Lake Geneva	5/15/1998	50 kts.	0	0	\$1K	0
	205	Elkhorn	5/28/1998	68 kts.	0	0	\$2K	0
	206	Lake Geneva	5/28/1998	50 kts.	0	0	\$3K	0
	207	Whitewater	5/28/1998	50 kts.	0	0	\$4K	0
	208	East Troy	5/31/1998	50 kts.	0	0	\$5K	0
	209	Walworth	5/31/1998	50 kts.	0	0	\$5K	0
	210	Darien	6/18/1998	50 kts.	0	0	\$2K	0
	211	Elkhorn	6/18/1998	50 kts.	0	0	\$3K	0
	212	Walworth	6/18/1998	50 kts.	0	0	\$27K	0
	213	Elkhorn	6/25/1998	60 kts.	0	0	0	0
	214	Lake Geneva	6/25/1998	50 kts.	0	0	\$3K	0
	216	Elkhorn	6/27/1998	52 kts.	0	0	\$4K	0
	217	Delavan	7/20/1998	52 kts.	0	0	\$2K	0
	218	Lake Geneva	7/20/1998	87 kts.	0	2	\$1.5M	0
	219	Elkhorn	7/21/1998	87 kts.	0	12	\$1.9M	\$105K
	220	Sharon	7/21/1998	50 kts.	0	0	\$5K	0
	231	Whitewater	2/11/1999	50 kts.	0	0	\$1K	0
	232	Walworth	2/11/1999	50 kts.	0	0	\$5K	0
	236	Walworth	5/17/1999	50 kts.	0	0	\$3K	0
	237	Darien	6/6/1999	50 kts.	0	0	\$5K	0
	238	East Troy	6/6/1999	50 kts.	0	0	\$1K	0
	239	Elkhorn	6/6/1999	50 kts.	0	0	\$8K	0
	240	Elkhorn	6/10/1999	50 kts.	0	0	\$15K	0
	243	Delavan	6/10/1999	50 kts.	0	1	\$10K	0
	245	Lake Geneva	6/10/1999	50 kts.	0	0	\$1K	0
	246	Lake Geneva	6/11/1999	50 kts.	0	0	\$1K	0
	252	Walworth	7/23/1999	57 kts.	0	0	\$2K	0
	275	Genoa City	6/1/2000	50 kts.	0	0	\$50K	0
	278	La Grange	6/13/2000	50 kts.	0	0	\$25K	0
	283	Delavan	7/10/2000	50 kts.	0	0	\$3K	0
	285	East Troy	8/5/2000	50 kts.	0	0	\$2K	0
	286	Fontana	8/6/2000	50 kts.	0	0	\$2K	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Thunderstorm Winds – continued	289	Whitewater	9/11/2000	50 kts.	0	0	\$10K	0
	290	Elkhorn	9/11/2000	50 kts.	0	0	\$2K	0
	305	East Troy	6/11/2001	55 kts.	0	0	\$25K	0
	306	Walworth	6/11/2001	52 kts.	0	0	\$5K	0
	307	Delavan	6/14/2001	54 kts.	0	0	0	0
	310	Zenda	7/22/2001	52 kts.	0	0	0	0
	315	Richmond	8/9/2001	52 kts.	0	0	0	0
	316	Spring Prairie	8/9/2001	52 kts.	0	0	0	0
	318	Linton	9/3/2001	50 kts.	0	0	0	0
	319	Walworth	9/7/2001	56 kts.	0	0	0	0
	337	Whitewater	4/18/2002	52 kts.	0	0	0	0
	338	East Troy	6/3/2002	56 kts.	0	0	\$5K	0
	339	Fontana	6/3/2002	56 kts.	0	0	\$10K	0
	340	Sharon	6/10/2002	56 kts.	0	0	0	0
	352	Richmond	8/21/2002	52 kts.	0	0	0	0
	353	Elkhorn	8/21/2002	56 kts.	0	0	0	0
	357	Darien	10/4/2002	58 kts.	0	0	\$25K	0
	364	Delavan	7/6/2003	52 kts.	0	0	0	0
	366	Whitewater	7/15/2003	56 kts.	0	0	0	0
	380	Como	3/5/2004	52 kts.	0	0	\$1K	0
	381	La Grange	3/5/2004	56 kts.	0	0	\$1K	0
	382	La Grange	3/5/2004	52 kts.	0	0	\$1K	0
	386	La Grange	5/21/2004	56 kts.	0	0	0	0
	387	Lake Geneva	5/23/2004	65 kts.	0	0	\$50K	0
	389	Whitewater	6/23/2004	56 kts.	0	0	0	0
	391	Delavan	8/27/2004	52 kts.	0	0	0	0
	392	Pell Lake	8/27/2004	61 kts.	0	0	\$30K	0
	404	Tibbet	5/27/2005	43 kts.	0	0	\$20K	0
	407	Allen Grove	6/11/2005	52 kts.	0	0	0	0
	409	Fontana	6/11/2005	52 kts.	0	0	0	0
	410	Whitewater	6/11/2005	52 kts.	0	0	0	0
	411	Sharon	6/30/2005	56 kts.	0	0	0	0
	412	Delavan	6/30/2005	52 kts.	0	0	0	0
	414	East Troy	7/23/2005	56 kts.	0	0	\$5K	0
	415	La Grange	7/23/2005	52 kts.	0	0	\$3K	0
	416	Spring Prairie	7/23/2005	56 kts.	0	0	\$3K	0
	416	Spring Prairie	7/23/2005	56 kts.	0	0	\$3K	0
	417	Whitewater	7/23/2005	52 kts.	0	0	\$1K	0
	419	East Troy	7/23/2005	56 kts.	0	0	0	0
	421	Tibbet	7/25/2005	65 kts.	0	0	\$250K	0
	422	Whitewater	7/25/2005	56 kts.	0	0	\$3K	0
	423	Tibbet	7/25/2005	52 kts.	0	0	\$1K	0
	426	La Grange	8/18/2005	56 kts.	0	0	\$1K	0
	429	Elkhorn	9/13/2005	56 kts.	0	0	0	0
	430	Delavan	9/13/2005	61 kts.	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Thunderstorm Winds – continued	431	La Grange	9/13/2005	56 kts.	0	0	0	0
	432	Whitewater	9/13/2005	61 kts.	0	1	0	0
	454	Lake Geneva	6/21/2006	52 kts.	0	0	0	0
	458	Zenda	7/17/2006	52 kts.	0	0	\$5K	0
	459	Darien	7/20/2006	52 kts.	0	0	\$10K	0
	460	Lake Geneva	7/20/2006	52 kts.	0	0	\$5K	0
	469	Little Prairie	10/2/2006	56 kts.	0	0	0	0
	476	Sharon	6/1/2007	56 kts.	0	0	\$5K	0
	477	Elkhorn	6/7/2007	65 kts.	0	0	\$15K	0
	480	Delavan	7/9/2007	52 kts.	0	0	0	0
	483	Genoa City	7/10/2007	50 kts.	0	0	0	0
	490	Sharon	1/7/2008	56 kts.	0	0	0	0
	416	Spring Prairie	7/23/2005	56 kts.	0	0	\$3K	0
	417	Whitewater	7/23/2005	52 kts.	0	0	\$1K	0
	419	East Troy	7/23/2005	56 kts.	0	0	0	0
	421	Tibbet	7/25/2005	65 kts.	0	0	\$250K	0
	422	Whitewater	7/25/2005	56 kts.	0	0	\$3K	0
	423	Tibbet	7/25/2005	52 kts.	0	0	\$1K	0
	426	La Grange	8/18/2005	56 kts.	0	0	\$1K	0
	429	Elkhorn	9/13/2005	56 kts.	0	0	0	0
	430	Delavan	9/13/2005	61 kts.	0	0	0	0
	431	La Grange	9/13/2005	56 kts.	0	0	0	0
	432	Whitewater	9/13/2005	61 kts.	0	1	0	0
	454	Lake Geneva	6/21/2006	52 kts.	0	0	0	0
	458	Zenda	7/17/2006	52 kts.	0	0	\$5K	0
	459	Darien	7/20/2006	52 kts.	0	0	\$10K	0
	460	Lake Geneva	7/20/2006	52 kts.	0	0	\$5K	0
	469	Little Prairie	10/2/2006	56 kts.	0	0	0	0
	476	Sharon	6/1/2007	56 kts.	0	0	\$5K	0
	477	Elkhorn	6/7/2007	65 kts.	0	0	\$15K	0
	480	Delavan	7/9/2007	52 kts.	0	0	0	0
	483	Genoa City	7/10/2007	50 kts.	0	0	0	0
	490	Sharon	1/7/2008	56 kts.	0	0	0	0
	-	Delavan	6/5/2008	52 kts.	0	0	0	0
	-	Genoa City	6/6/2008	50 kts.	0	0	\$10K	0
	-	Williams Bay	6/6/2008	63 kts.	0	0	\$25K	0
	-	Richmond	6/8/2008	52 kts.	0	0	0	0
	-	Sharon	6/8/2008	50 kts.	0	0	0	0
	-	Delavan	6/12/2008	54 kts.	0	0	0	0
	-	Elkhorn	6/12/2008	50 kts.	0	0	\$30K	0
	-	East Troy	6/12/2008	78 kts.	0	0	\$150K	0
	-	Whitewater	7/10/2008	56 kts.	0	0	\$5K	0
	-	Darien	7/10/2008	65 kts.	0	0	\$100K	0
	-	Richmond	7/12/2008	56 kts.	0	0	0	0
	-	Whitewater	06/08/2009	56 kts.	0	0	\$30K	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Thunderstorm Winds – continued	-	Troy Center	06/08/2009	56 kts.	0	0	\$10K	0
	-	Millard	06/19/2009	56 kts.	0	0	0	0
	-	Elkhorn	06/19/2009	56 kts.	0	0	0	0
	-	Whitewater	06/25/2009	54 kts.	0	0	0	0
	-	Lake Geneva	08/09/2009	65 kts.	0	0	\$15K	0
	-	East Troy	08/09/2009	57 kts.	0	0	0	0
	-	Delavan	08/09/2009	64 kts.	0	0	\$25K	0
	-	Delavan	06/18/2010	52 kts.	0	0	0	0
	-	Lake Geneva	06/18/2010	56 kts.	0	0	\$25K	0
	-	Lake Geneva	06/18/2010	55 kts.	0	0	0	0
	-	East Troy	06/21/2010	65 kts.	0	0	0	0
	-	Whitewater	07/22/2010	52 kts.	0	0	0	0
	-	Walworth	08/20/2010	50 kts.	0	0	\$25K	0
	-	Delavan	08/20/2010	50 kts.	0	0	\$25K	0
	-	Whitewater	05/22/2011	52 kts.	0	0	\$5K	0
	-	Elkhorn	05/22/2011	52 kts.	0	0	\$10K	0
	-	Lyons	05/22/2011	56 kts.	0	0	0	0
	-	Walworth County	06/08/2011	70 kts.	0	0	0	0
	-	Walworth County	06/08/2011	54 kts.	0	0	0	0
	-	Walworth County	06/08/2011	65 kts.	0	0	0	0
	-	Walworth County	06/21/2011	52 kts.	0	0	0	0
	-	Delavan	07/11/2011	70 kts.	0	0	\$100K	0
	-	Tibbet	07/11/2011	56 kts.	0	0	\$800K	0
	-	Lake Geneva	07/11/2011	56 kts.	0	0	\$8K	0
	-	Como	07/23/2011	50 kts.	0	0	0	0
	-	Delavan Airport	08/02/2011	56 kts.	0	0	0	0
	-	Williams Bay	08/02/2011	56 kts.	0	0	0	0
	-	Pell Lake	05/20/2012	56 kts.	0	0	\$10K	0
	-	Sharon	07/24/2012	56 kts.	0	0	0	0
	-	Lake Geneva	07/24/2012	56 kts.	0	0	0	0
	-	La Grange	07/30/2012	56 kts.	0	0	0	0
	-	Delavan	5/30/2013	61 kts.	0	0	\$100K	0
	-	East Troy	7/21/2013	52 kts.	0	0	\$7K	0
	-	Whitewater	7/21/2013	52 kts.	0	0	\$10K	0
	-	La Grange	7/21/2013	52 kts.	0	0	\$7K	0
	-	Delavan Lake	8/22/2013	50 kts.	0	0	\$5K	0
	-	Lake Beulah	8/30/2013	56 kts.	0	0	0	0
	-	East Troy	8/30/2013	52 kts.	0	0	\$4K	0
	-	Delavan	8/30/2013	56 kts.	0	0	\$70K	0
	-	Richmond	6/17/2014	50 kts.	0	0	\$5K	0
	-	Clover Vly Ar	6/17/2014	55 kts.	0	0	\$20K	0
	-	Darien	6/30/2014	55 kts.	0	0	\$5K	0
	-	Elkhorn	6/30/2014	55 kts.	0	0	\$10K	0
	-	Clover Vly Ar	4/29/2015	50 kts.	0	0	\$2K	0
	-	Richmond	5/26/2015	50 kts.	0	0	\$1K	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Thunderstorm Winds – continued	-	Whitewater	6/22/2015	61 kts.	0	0	\$2K	0
	-	Clover Vly Arpt	7/13/2015	55 kts.	0	0	\$20K	0
	-	Darien	7/18/2015	55 kts.	0	0	\$1K	0
	-	Delavan	8/2/2015	55 kts.	0	0	\$1K	0
	-	Delavan Arpt	8/2/2015	60 kts.	0	0	\$10K	0
	-	Sharon	8/17/2015	55 kts.	0	0	\$1K	0
	-	Little Prairie	7/21/2016	50 kts.	0	0	\$5K	0
	-	La Grange	9/7/2016	50 kts.	0	0	\$7K	0
	-	Zenda	3/7/2017	56 kts.	0	0	\$10K	0
	-	Delavan	4/20/2017	52 kts.	0	0	\$5K	0
	-	Whitewater	5/17/2017	65 kts.	0	0	\$100K	0
	-	Walworth	5/17/2017	70 kts.	0	0	\$15K	0
	-	Walworth	6/29/2017	52 kts.	0	0	\$10K	0
	-	Pell Lake	6/29/2017	52 kts.	0	0	\$10K	0
	-	Williams Bay	5/2/2018	52 kts.	0	0	\$1K	0
	-	Williams Bay	6/27/2019	50 kts.	0	0	\$2K	0
	-	Pell Lake	6/27/2019	52 kts.	0	0	\$2K	0
	-	Delavan	6/30/2019	56 kts.	0	0	\$15K	0
	-	La Grange	8/7/2019	61 kts.	0	0	\$20K	0
	-	Lake Geneva Lake	9/10/2019	61 kts.	0	0	\$2K	0
Tornado [12,13]	1	Walworth County	4/18/1955	F2	0	1	\$250K	0
	3	Walworth County	4/19/1957	F2	0	0	\$250K	0
	4	Walworth County	6/6/1959	Unknown	0	0	0	0
	6	Walworth County	9/22/1961	F2	0	1	\$25K	0
	9	Walworth County	4/11/1965	F1	0	0	\$250K	0
	10	Walworth County	4/11/1965	F1	0	0	\$25K	0
	13	Walworth County	3/21/1966	F2	0	1	\$2.5M	0
	14	Walworth County	6/10/1967	F1	0	0	\$250K	0
	16	Walworth County	5/27/1968	F0	0	0	\$25K	0
	20	Walworth County	5/9/1970	F1	0	0	\$25K	0
	22	Walworth County	7/14/1972	F1	0	0	\$250K	0
	23	Walworth County	9/28/1972	F2	0	0	\$250K	0
	30	Walworth County	6/20/1978	Unknown	0	0	0	0
	31	Walworth County	8/15/1978	Unknown	0	0	0	0
	34	Walworth County	6/6/1980	F2	0	0	\$250K	0
	69	Walworth County	7/16/1988	F1	0	0	\$25K	0
	80	Walworth County	6/2/1990	F1	0	0	\$25K	0
	85	Walworth County	7/7/1991	F0	0	0	0	0
	92	Walworth County	9/2/1992	F1	0	0	\$25K	0
	-	Sharon-Walworth	6/26/1993	F0	0	0	\$3K	\$40K
	-	Genoa City	7/5/1993	F1	0	0	\$200K	\$30K
	181	Sharon	7/18/1997	F0	0	0	0	0
	390	Whitewater	6/23/2004	F1	0	0	\$5K	0
	492	Pell Lake	1/7/2008	EF1	0	0	\$100K	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Tornado - continued	-	Walworth	11/22/2010	EF1	0	0	\$1M	0
	-	Richmond	7/18/2015	EF1	0	0	\$80K	\$1K
	-	Lake Geneva	8/18/2015	EF1	0	0	\$100K	0
	-	Delavan	8/20/2018	EF0	0	0	\$15K	0
Winter Storms [14]	93	Statewide	1/13/1993	n/a	0	0	0	0
	94	Southern WI	1/5/1994	n/a	0	0	0	0
	96	Statewide	1/26/1994	n/a	0	0	0	0
	97	South Eastern WI	2/12/1994	n/a	0	0	0	0
	98	Southern WI	2/22/1994	n/a	0	0	0	0
	99	Southern WI	2/25/1994	n/a	0	0	0	0
	105	Southern WI	12/5/1994	n/a	0	0	0	0
	106	Statewide	1/19/1995	n/a	0	0	0	0
	107	Southern WI	2/26/1995	n/a	0	0	0	0
	138	South Eastern WI	11/11/1995	n/a	0	0	0	0
	139	Southern WI	11/26/1995	n/a	0	1	0	0
	140	Statewide	12/8/1995	n/a	0	0	0	0
	142	Southern WI	12/13/1995	n/a	0	0	0	0
	144	South Central WI	1/16/1996	n/a	0	0	0	0
	146	South Central WI	1/23/1996	n/a	0	0	0	0
	147	Southern WI	1/29/1996	n/a	0	0	0	0
	164	South Central WI	12/25/1996	n/a	0	0	0	0
	165	Southern WI	1/16/1997	n/a	0	0	0	0
	171	South Central WI	4/11/1997	n/a	0	0	0	0
	197	Walworth County	11/14/1997	n/a	0	0	0	0
	198	Southern WI	1/8/1998	n/a	0	0	0	0
	229	Southern WI	1/2/1999	n/a	0	5	\$11K	0
	233	South Central WI	3/9/1999	n/a	0	0	0	0
	260	Walworth County	2/18/2000	n/a	0	0	0	0
	265	South Central WI	4/7/2000	n/a	0	0	0	0
	294	South Central WI	12/11/2000	n/a	0	0	0	0
	295	South Central WI	12/18/2000	n/a	0	0	0	0
	330	Walworth County	1/31/2002	n/a	0	0	0	0
	332	Southern WI	3/2/2002	n/a	0	0	0	0
	358	South Central WI	2/3/2003	n/a	0	0	0	0
	360	Southern WI	4/4/2003	n/a	0	0	0	0
	362	Southern WI	4/7/2003	n/a	0	0	0	0
	375	Southern WI	1/4/2004	n/a	0	0	0	0
	376	Southern WI	1/16/2004	n/a	0	0	0	0
	377	Southern WI	2/8/2004	n/a	0	0	0	0
	394	South Central WI	11/30/2004	n/a	0	0	0	0
	397	South Eastern WI	12/18/2004	n/a	0	0	0	0
	399	Southern WI	1/6/2005	n/a	0	0	0	0
	401	Southern WI	1/22/2005	n/a	0	0	0	0
	440	Walworth County	1/20/2006	n/a	0	0	0	0
	-	Walworth County	11/10/2006	n/a	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Winter Storms – continued	-	Walworth County	12/1/2006	n/a	0	0	0	0
	-	Walworth County	1/12/2007	n/a	0	0	0	0
	-	Walworth County	1/14/2007	n/a	0	0	0	0
	-	Walworth County	1/21/2007	n/a	0	0	0	0
	472	South Eastern WI	2/23/2007	n/a	0	0	0	0
	473	Walworth County	2/24/2007	n/a	0	0	0	0
	474	Walworth County	2/25/2007	n/a	0	0	0	0
	-	Walworth County	3/2/2007	n/a	0	0	0	0
	-	Walworth County	4/11/2007	n/a	0	0	\$10K	0
	-	Walworth County	11/2/2007	n/a	0	0	0	0
	-	Walworth County	12/4/2007	n/a	0	0	0	0
	-	Walworth County	12/11/2007	n/a	0	0	0	0
	-	Walworth County	12/15/2007	n/a	0	0	0	0
	-	Walworth County	12/28/2007	n/a	0	0	0	0
	487	South Central WI	12/1/2007	n/a	0	0	0	0
	-	Walworth County	1/21/2008	n/a	0	0	0	0
	493	Southern WI	1/29/2008	n/a	0	0	0	0
	495	Walworth County	1/31/2008	n/a	0	0	0	0
	496	Walworth County	2/1/2008	n/a	0	0	0	0
	497	South Eastern WI	2/3/2008	n/a	0	0	0	0
	498	South Central WI	2/5/2008	n/a	0	0	0	0
	-	Walworth County	2/9/2008	n/a	0	0	0	0
	-	Walworth County	2/11/2008	n/a	0	0	0	0
	499	Walworth County	2/17/2008	n/a	0	0	0	0
	500	South Central WI	2/25/2008	n/a	0	0	0	0
	-	Walworth County	3/21/2008	n/a	0	0	0	0
	-	Walworth County	11/24/2008	n/a	0	0	0	0
	-	Walworth County	11/30/2008	n/a	0	0	0	0
	-	Walworth County	12/1/2008	n/a	0	0	0	0
	-	Walworth County	12/3/2008	n/a	0	0	0	0
	-	Walworth County	12/8/2008	n/a	0	0	0	0
	-	Walworth County	12/16/2008	n/a	0	0	0	0
	-	Walworth County	12/18/2008	n/a	0	0	0	0
	-	Walworth County	12/21/2008	n/a	0	0	0	0
	-	Walworth County	12/23/2008	n/a	0	0	0	0
	-	Walworth County	12/24/2008	n/a	0	0	0	0
	-	Walworth County	12/25/2008	n/a	0	0	0	0
	-	Walworth County	12/27/2008	n/a	0	0	0	0
	-	Walworth County	1/3/2009	n/a	0	0	0	0
	-	Walworth County	1/9/2009	n/a	0	0	0	0
	-	Walworth County	1/12/2009	n/a	0	0	0	0
	-	Walworth County	1/13/2009	n/a	0	0	0	0
	-	Walworth County	1/21/2009	n/a	0	0	0	0
	-	Walworth County	1/26/2009	n/a	0	0	0	0
	-	Walworth County	3/28/2009	n/a	0	0	0	0

Event Type	Record Number [1]	Location	Date	Magnitude	Direct Deaths [2]	Direct Injuries [3]	Property Damage [4]	Crop Damage [5]
Winter Storms – continued	-	Walworth County	12/8/2009	n/a	0	0	0	0
	-	Walworth County	12/23/2009	n/a	0	0	0	0
	-	Walworth County	1/7/2010	n/a	0	0	0	0
	-	Walworth County	2/8/2010	n/a	0	0	0	0
	-	Walworth County	3/19/2010	n/a	0	0	0	0
	-	Walworth County	12/3/2010	n/a	0	0	0	0
	-	Walworth County	12/9/2010	n/a	0	0	0	0
	-	Walworth County	12/11/2010	n/a	0	0	0	0
	-	Walworth County	12/20/2010	n/a	0	0	0	0
	-	Walworth County	1/17/2011	n/a	0	0	0	0
	-	Walworth County	2/1/2011	n/a	0	0	0	0
	-	Walworth County	2/6/2011	n/a	0	0	0	0
	-	Walworth County	2/21/2011	n/a	0	0	0	0
	-	Walworth County	12/29/2011	n/a	0	0	0	0
	-	Walworth County	1/12/2012	n/a	0	0	0	0
	-	Walworth County	1/17/2012	n/a	0	0	0	0
	-	Walworth County	1/20/2012	n/a	0	0	0	0
	-	Walworth County	2/23/2012	n/a	0	0	0	0
	-	Walworth County	3/2/2012	n/a	0	0	0	0
	-	Walworth County	12/20/2012	n/a	0	0	0	0
	-	Walworth County	2/7/2013	n/a	0	0	0	0
	-	Walworth County	2/26/2013	n/a	0	0	0	0
	-	Walworth County	3/5/2013	n/a	0	0	0	0
	-	Walworth County	12/22/2013	n/a	0	0	0	0
	-	Walworth County	2/1/2015	n/a	0	0	0	0
	-	Walworth County	11/20/2015	n/a	0	0	0	0
	-	Walworth County	12/28/2015	n/a	0	0	0	0
	-	Walworth County	12/10/2016	n/a	0	0	0	0
	-	Walworth County	12/16/2016	n/a	0	0	0	0
	-	Walworth County	1/22/2018	n/a	0	0	0	0
	-	Walworth County	2/8/2018	n/a	0	0	0	0
	-	Walworth County	11/25/2018	n/a	0	0	0	0
	-	Walworth County	1/18/2019	n/a	0	0	0	0
	-	Walworth County	2/11/2019	n/a	0	0	0	0

Source: National Climatic Data Center database accessed on November 9, 2012 <http://www.ncdc.noaa.gov/stormevents/>

- Note:
1. Records numbers are not assigned for the more recent records
 2. The first number denotes the number of deaths attributed to the event and the second number is the number of deaths specifically in Walworth County.
 3. The first number denotes the number of injuries attributed to the event and the second number is the number of injuries specifically in Walworth County.
 4. In some cases, it was possible to disaggregate the overall event to identify the property damage just in Walworth County. In such instances, the first number is the total property damage and the second number is specifically for Walworth County.
 5. In some cases, it was possible to disaggregate the overall event to identify the property damage just in Walworth County. In such instances, the first number is the total property damage and the second number is specifically for Walworth County.
 6. Heat is defined as a Heat Index Value of 105-110 degrees Fahrenheit for 3 hours or more during the day or 75 degrees or higher at night for a 24-hour period.
 7. Dense fog is defined as visibility less than ¼ mile
 8. Large hail is ¾ inch in diameter or larger
 9. High wind is defined as non-thunderstorm sustained wind 40 mph or more for 1 hour or more or any gust 58 mph or higher
 10. Strong wind is defined as non-thunderstorm sustained wind 30 mph or more for 1 hour or more or any gust 45-57 mph
 11. Thunderstorm wind is defined as winds of 58 mph or greater

12. The location for some events is denoted by direction from the center of a nearby community and distance.
13. Tornadoes through the end of 2006 were rated on the Fujita Tornado Scale. Beginning January 1, 2007, the Enhanced Fujita Tornado scale was used.
14. Heavy snow or blizzard is defined as 6 inches of snow or more in 12 hours or less or 8 inches or more in 24 hours or less

METHODOLOGY FOR ESTIMATING FLOOD DAMAGE (2008)

Overview – This narrative is intended to document the resources, process, and assumptions used in estimating how much damage would occur to buildings during a 100-year flood in 2008. Although flood damages were calculated for each building in the floodplain, it should be emphasized that the total calculated damage estimate was prepared to compare damage from flooding to damage caused by other natural hazards. This was done to help decision makers set priorities and devise appropriate mitigation activities.

Resources Used – Walworth County has a well-developed geographic information system (GIS) with a topographic relief map with two-foot contour intervals and an orthographic base with a resolution of two feet. The GIS system also includes property tax information for every parcel in the county.

Beginning in 2006, the Federal Emergency Management Agency, in collaboration with the Wisconsin Department of Natural Resources, initiated a multi-year effort to create and adopt digital flood insurance rate maps (FIRMs) for Walworth County and the municipalities. Preliminary FIRM maps were produced as part of that effort and were made available in November, 2007. It is anticipated that the County and local municipalities will adopt the maps by March 16, 2009. Because the preliminary FIRMs represented the best available data at the time, they were used in this project.

Methodology and Assumptions – The approach was straight forward – identify buildings located within the 100-year floodplain and estimate how much damage each would suffer during a 100-year flood. Initially, a query was used to identify those parcels that were located, in whole or in part, in the 100-year floodplain. The consultant then viewed each of those parcels to determine if a principal building (e.g., house, commercial building, industrial building) was located within the 100-year floodplain. In some cases, a single parcel had more than one building in the floodplain. For example, there were many parcels that had a house with a detached garage. To determine which of the buildings is the principal building, the consultant viewed the orthographic map and considered the size of the buildings and proximity to driveways or other access points.

Once the relevant structures were located, they were “clipped” by the preliminary 100-year floodplain polygon in order to derive the actual structure area that is within the floodplain. A point was located on the approximate center of the clipped principal building to identify it and its location. The elevation of the ground at the point was derived from the relief map. It was assumed that the first floor was 18 inches above the ground elevation.

The closest flood levels at each of the points were derived from the preliminary flood data and surface elevation. Accuracy was ensured by extrapolating and summarizing only elevations that were nearest to the intended structures that intersected or were within the 100-year floodplain. The first floor elevation and flood elevation were then compared. The extent of damage for each principal building was expressed as a percent based on standardized flood loss tables prepared by the Federal Emergency Management Agency. For this analysis, damage estimates for one- or two-story buildings with basements were used (Table H-1).

Table H-1. Percent of Building Damaged Based on Extent of Flooding

First Floor Flood Depth (feet)	Percent of Building Damaged
-2	4
-1	8
0	11
1	15
2	20
3	23
4	28
5	33
6	38
7	44
8	49
>8	51

Source: Based on Table 3 of *Resource Guide to All Hazards Mitigation Planning in Wisconsin*, 2003. Wisconsin Emergency Management

ESTIMATED FLOOD DAMAGE TO BUILDINGS: 2008

Jurisdiction	Land Use	Market Value of Structure	Percent Damage	100-Year Flood Damage
Bloomfield, Town	Residential	\$95,200	20%	\$19,040
Bloomfield, Town	Residential	\$88,900	20%	\$17,780
Bloomfield, Town	Residential	\$60,600	20%	\$12,120
Bloomfield, Town	Residential	\$9,400	20%	\$1,880
Bloomfield, Town	Residential	\$130,100	15%	\$19,515
Bloomfield, Town	Residential	\$24,600	20%	\$4,920
Bloomfield, Town	Residential	\$103,800	20%	\$20,760
Bloomfield, Town	Residential	\$110,000	20%	\$22,000
Bloomfield, Town	Residential	\$71,700	20%	\$14,340
Bloomfield, Town	Swamp and Waste	\$110,000	20%	\$22,000
Bloomfield, Town	Residential	\$126,000	15%	\$18,900
Bloomfield, Town	Residential	\$44,400	20%	\$8,880
Bloomfield, Town	Residential	\$99,600	20%	\$19,920
Bloomfield, Town	Residential	\$27,000	20%	\$5,400
Bloomfield, Town	Residential	\$62,300	20%	\$12,460
Bloomfield, Town	Residential	\$130,200	15%	\$19,530
Bloomfield, Town	Residential	\$52,300	15%	\$7,845
Bloomfield, Town	Residential	\$105,000	33%	\$34,650
Bloomfield, Town	Residential	\$107,700	20%	\$21,540
Bloomfield, Town	Residential	\$105,400	15%	\$15,810
Bloomfield, Town	Mercantile	\$279,800	15%	\$41,970
Bloomfield, Town	Residential	\$79,000	20%	\$15,800
Bloomfield, Town	Residential	\$199,500	15%	\$29,925
Bloomfield, Town	Residential	\$139,100	20%	\$27,820
Bloomfield, Town	Residential	\$132,400	15%	\$19,860
Bloomfield, Town	Residential	\$132,900	20%	\$26,580
Bloomfield, Town	Residential	\$246,300	51%	\$125,610
Bloomfield, Town	Residential	\$189,600	23%	\$43,608
Bloomfield, Town	Residential	\$167,100	20%	\$33,420
Bloomfield, Town	Residential	\$298,800	15%	\$44,820
Bloomfield, Town	Residential	\$67,100	15%	\$10,065
Bloomfield, Town	Residential	\$53,600	20%	\$10,720
Bloomfield, Town	Swamp and Waste	\$150,200	15%	\$22,530
Bloomfield, Town	Residential	\$500	15%	\$75
Bloomfield, Town	Residential	\$222,800	28%	\$62,384
Bloomfield, Town	Residential	\$539,000	20%	\$107,800
Bloomfield, Town	Residential	\$23,500	20%	\$4,700
Bloomfield, Town	Residential	\$117,600	23%	\$27,048
Bloomfield, Town	Mercantile	\$113,900	15%	\$17,085
Bloomfield, Town	Residential	\$709,000	15%	\$106,350
Bloomfield, Town	Residential	\$52,900	20%	\$10,580
Bloomfield, Town	Residential	\$89,800	20%	\$17,960
Bloomfield, Town	Residential	\$80,200	20%	\$16,040
Bloomfield, Town	Residential	\$364,000	20%	\$72,800
Bloomfield, Town	Residential	\$111,500	20%	\$22,300
Bloomfield, Town	Residential	\$97,500	20%	\$19,500
Bloomfield, Town	Residential	\$271,200	15%	\$40,680
Bloomfield, Town	Residential	\$62,100	20%	\$12,420
Bloomfield, Town	Residential	\$102,000	15%	\$15,300
Bloomfield, Town	Residential	\$107,400	20%	\$21,480
Bloomfield, Town	Residential	\$62,100	20%	\$12,420
Bloomfield, Town	Residential	\$40,400	15%	\$6,060

Jurisdiction	Land Use	Market Value of Structure	Percent Damage	100-Year Flood Damage
Bloomfield, Town	Residential	\$52,700	15%	\$7,905
Bloomfield, Town	Residential	\$79,000	15%	\$11,850
Bloomfield, Town	Residential	\$148,200	15%	\$22,230
Bloomfield, Town	Residential	\$47,200	23%	\$10,856
Bloomfield, Town	Residential	\$56,800	23%	\$13,064
Bloomfield, Town	Residential	\$91,500	20%	\$18,300
Bloomfield, Town	Residential	\$74,600	15%	\$11,190
Bloomfield, Town	Mercantile	\$92,500	20%	\$18,500
Bloomfield, Town	Mercantile	\$131,100	20%	\$26,220
Bloomfield, Town	Residential	\$120,200	20%	\$24,040
Bloomfield, Town	Residential	\$64,100	20%	\$12,820
		\$7,924,900.00		\$1,541,975.00
Darien, Town	Manufacturing	\$6,777,050	20%	\$1,355,410
Darien, Town	Manufacturing	\$6,777,050	20%	\$1,355,410
Darien, Town	Agriculture	\$56,300	20%	\$11,260
Darien, Town	Mercantile	\$13,554,000	33%	\$4,472,800
Darien, Town	Agriculture	\$9,200	33%	\$3,036
Darien, Town	Residential	\$124,200	20%	\$24,840
Darien, Town	Residential	\$46,900	15%	\$7,035
Darien, Town	Agriculture	\$32,600	20%	\$6,520
		\$27,377,300.00		\$7,236,311.00
Darien, Village	Residential	\$132,000	20%	\$26,400
				\$26,400
Delavan, City	Residential	\$217,400	15%	\$32,610
Delavan, City	Mercantile	\$43,700	23%	\$10,051
		\$261,100.00		\$42,661.00
Delavan, Town	Residential	\$384,000	15%	\$57,600
Delavan, Town	Residential	\$107,400	20%	\$21,480
Delavan, Town	Residential	\$279,700	15%	\$41,955
Delavan, Town	Residential	\$118,800	20%	\$23,760
Delavan, Town	Residential	\$253,900	23%	\$58,397
Delavan, Town	Residential	\$112,300	20%	\$22,460
Delavan, Town	Residential	\$105,300	20%	\$21,060
Delavan, Town	Residential	\$142,600	15%	\$21,390
Delavan, Town	Residential	\$116,400	23%	\$26,772
Delavan, Town	Residential	\$171,500	15%	\$25,725
Delavan, Town	Residential	\$150,200	20%	\$30,040
Delavan, Town	Residential	\$115,000	38%	\$43,700
Delavan, Town	Residential	\$122,600	15%	\$18,390
Delavan, Town	Residential	\$133,600	33%	\$44,088
Delavan, Town	Residential	\$140,800	20%	\$28,160
Delavan, Town	Residential	\$166,400	20%	\$33,280
Delavan, Town	Residential	\$66,000	33%	\$21,780
Delavan, Town	Residential	\$170,500	38%	\$64,790
Delavan, Town	Residential	\$89,600	28%	\$25,088
Delavan, Town	Residential	\$158,000	20%	\$31,600
Delavan, Town	Residential	\$100,000	20%	\$20,000
Delavan, Town	Residential	\$80,800	23%	\$18,584
Delavan, Town	Residential	\$160,800	23%	\$36,984
Delavan, Town	Residential	\$75,800	23%	\$17,434
Delavan, Town	Residential	\$72,000	51%	\$36,720
Delavan, Town	Residential	\$154,500	49%	\$75,705

Jurisdiction	Land Use	Market Value of Structure	Percent Damage	100-Year Flood Damage
Delavan, Town	Residential	\$46,200	23%	\$10,626
Delavan, Town	Residential	\$116,500	20%	\$23,300
Delavan, Town	Residential	\$145,900	33%	\$48,147
Delavan, Town	Residential	\$126,200	20%	\$25,240
Delavan, Town	Residential	\$76,200	20%	\$15,240
Delavan, Town	Residential	\$126,400	20%	\$25,280
Delavan, Town	Residential	\$164,400	20%	\$32,880
Delavan, Town	Residential	\$88,000	20%	\$17,600
Delavan, Town	Residential	\$96,000	15%	\$14,400
Delavan, Town	Residential	\$957,500	20%	\$191,500
Delavan, Town	Mercantile	\$13,400	20%	\$2,680
Delavan, Town	Mercantile	\$201,500	15%	\$30,225
Delavan, Town	Residential	\$131,200	20%	\$26,240
Delavan, Town	Residential	\$112,000	20%	\$22,400
Delavan, Town	Residential	\$312,500	23%	\$71,875
Delavan, Town	Residential	\$59,000	20%	\$11,800
Delavan, Town	Residential	\$125,100	20%	\$25,020
Delavan, Town	Residential	\$301,500	20%	\$60,300
Delavan, Town	Residential	\$466,800	49%	\$228,730
Delavan, Town	Residential	\$574,300	20%	\$114,860
Delavan, Town	Residential	\$464,300	20%	\$92,860
Delavan, Town	Residential	\$341,700	15%	\$51,255
Delavan, Town	Mercantile	\$37,500	20%	\$7,500
Delavan, Town	Residential	\$79,100	20%	\$15,820
Delavan, Town	Residential	\$763,700	20%	\$152,740
Delavan, Town	Residential	\$308,400	20%	\$61,680
Delavan, Town	Other Land	\$191,100	20%	\$38,220
		\$10,174,900.00		\$2,285,360.00
East Troy, Town	Residential	\$54,700	38%	\$20,786
East Troy, Town	Residential	\$229,800	20%	\$45,960
East Troy, Town	Residential	\$151,400	20%	\$30,280
East Troy, Town	Other Land	\$317,100	20%	\$63,420
East Troy, Town	Agriculture	\$198,600	20%	\$39,720
East Troy, Town	Other Land	\$145,900	23%	\$33,557
		\$1,097,500.00		\$233,723.00
East Troy, Village	Residential	\$166,500	15%	\$24,975
East Troy, Village	Manufacturing	\$120,000	20%	\$24,000
East Troy, Village	Mercantile	\$135,800	15%	\$20,370
East Troy, Village	Mercantile	\$135,800	20%	\$27,160
		\$558,100.00		\$96,505.00
Elkhorn , City	County Land	\$163,600	15%	\$24,540
Fontana-on-Geneva Lake, Village	Residential	\$26,950	20%	\$5,390
Fontana-on-Geneva Lake, Village	Residential	\$26,950	20%	\$5,390
Fontana-on-Geneva Lake, Village	Residential	\$26,950	15%	\$4,043
Fontana-on-Geneva Lake, Village	Residential	\$26,950	20%	\$5,390
Fontana-on-Geneva Lake, Village	Residential	\$26,950	20%	\$5,390
Fontana-on-Geneva Lake, Village	Residential	\$26,950	20%	\$5,390
Fontana-on-Geneva Lake, Village	Residential	\$74,100	20%	\$14,820
Fontana-on-Geneva Lake, Village	Residential	\$74,100	20%	\$14,820
Fontana-on-Geneva Lake, Village	Other Land	\$575,100	20%	\$115,020
Fontana-on-Geneva Lake, Village	Residential	\$99,400	23%	\$22,862
Fontana-on-Geneva Lake, Village	Residential	\$575,100	20%	\$115,020
Fontana-on-Geneva Lake, Village	Other Land	\$575,100	20%	\$115,020

Jurisdiction	Land Use	Market Value of Structure	Percent Damage	100-Year Flood Damage
Fontana-on-Geneva Lake, Village	Other Land	\$575,100	20%	\$115,020
Fontana-on-Geneva Lake, Village	Mercantile	\$55,200	15%	\$8,280
		\$2,764,900.00		\$551,855.00
Geneva, Town	Residential	\$151,200	20%	\$30,240
Geneva, Town	Residential	\$212,300	20%	\$42,460
Geneva, Town	Residential	\$348,500	20%	\$69,700
Geneva, Town	Residential	\$180,100	20%	\$36,020
Geneva, Town	Residential	\$299,800	20%	\$59,960
Geneva, Town	Residential	\$109,500	20%	\$21,900
Geneva, Town	Residential	\$227,800	20%	\$45,560
Geneva, Town	Residential	\$75,000	20%	\$15,000
Geneva, Town	Residential	\$142,300	20%	\$28,460
Geneva, Town	Residential	\$36,000	20%	\$7,200
Geneva, Town	Residential	\$95,800	20%	\$19,160
Geneva, Town	Residential	\$322,000	20%	\$64,400
Geneva, Town	Residential	\$71,000	20%	\$14,200
Geneva, Town	Residential	\$58,000	15%	\$8,700
Geneva, Town	Mercantile	\$85,000	20%	\$17,000
Geneva, Town	Mercantile	\$85,000	20%	\$17,000
Geneva, Town	Mercantile	\$1,171,300	15%	\$175,700
Geneva, Town	Mercantile	\$220,000	20%	\$44,000
		\$3,890,600.00		\$716,660.00
Lafayette, Town	Residential	\$75,500	20%	\$15,100
Lafayette, Town	Residential	\$53,000	20%	\$10,600
Lafayette, Town	Residential	\$195,000	15%	\$29,250
Lafayette, Town	Residential	\$85,000	20%	\$17,000
Lafayette, Town	Mercantile	\$4,843,500	20%	\$968,700
Lafayette, Town	Other	\$4,500	20%	\$900
Lafayette, Town	Residential	\$197,000	20%	\$39,400
Lafayette, Town	Residential	\$191,500	20%	\$38,300
Lafayette, Town	Residential	\$262,500	20%	\$52,500
Lafayette, Town	Swamp and Waste	\$86,500	11%	\$9,515
		\$5,994,000.00		\$1,181,265.00
LaGrange, Town	Residential	\$545,300	15%	\$81,795
LaGrange, Town	Residential	\$355,200	23%	\$81,696
LaGrange, Town	Residential	\$228,600	20%	\$45,720
LaGrange, Town	Residential	\$186,200	20%	\$37,240
LaGrange, Town	Residential	\$141,300	28%	\$39,564
LaGrange, Town	Residential	\$55,900	20%	\$11,180
LaGrange, Town	Residential	\$23,400	51%	\$11,934
LaGrange, Town	Residential	\$225,900	20%	\$45,180
LaGrange, Town	Residential	\$180,100	23%	\$41,423
LaGrange, Town	Residential	\$122,700	20%	\$24,540
LaGrange, Town	Residential	\$15,500	20%	\$3,100
LaGrange, Town	Other Land	\$203,700	20%	\$40,740
LaGrange, Town	Other Land	\$199,300	15%	\$29,895
LaGrange, Town	Residential	\$372,700	20%	\$74,540
LaGrange, Town	Residential	\$441,600	20%	\$88,320
LaGrange, Town	Residential	\$151,900	20%	\$30,380
LaGrange, Town	Residential	\$324,100	20%	\$64,820
LaGrange, Town	Residential	\$440,700	15%	\$66,105
LaGrange, Town	Residential	\$124,700	20%	\$24,940
LaGrange, Town	Residential	\$113,800	20%	\$22,760
LaGrange, Town	Residential	\$135,900	11%	\$14,949

Jurisdiction	Land Use	Market Value of Structure	Percent Damage	100-Year Flood Damage
LaGrange, Town	Residential	\$165,200	20%	\$33,040
LaGrange, Town	Residential	\$188,600	15%	\$28,290
LaGrange, Town	Residential	\$227,800	44%	\$100,230
LaGrange, Town	Residential	\$210,000	20%	\$42,000
LaGrange, Town	Residential	\$140,100	20%	\$28,020
LaGrange, Town	Residential	\$79,100	15%	\$11,865
LaGrange, Town	Residential	\$157,300	20%	\$31,460
LaGrange, Town	Other Land	\$346,900	23%	\$79,787
LaGrange, Town	Residential	\$157,700	15%	\$23,655
LaGrange, Town	Residential	\$244,000	20%	\$48,800
LaGrange, Town	Residential	\$278,100	20%	\$55,620
LaGrange, Town	Residential	\$406,700	20%	\$81,340
LaGrange, Town	Residential	\$451,800	20%	\$90,360
LaGrange, Town	Residential	\$867,800	23%	\$199,590
LaGrange, Town	Residential	\$451,800	20%	\$90,360
LaGrange, Town	Residential	\$175,400	20%	\$35,080
LaGrange, Town	Residential	\$207,600	20%	\$41,520
LaGrange, Town	Residential	\$272,000	20%	\$54,400
LaGrange, Town	Residential	\$226,400	20%	\$45,280
LaGrange, Town	Residential	\$83,600	20%	\$16,720
LaGrange, Town	Residential	\$200,200	20%	\$40,040
		\$10,126,600.00		\$2,058,278.00
Lake Geneva, City	Mercantile	\$1,121,500	20%	\$224,300
Lake Geneva, City	Other Land	\$93,700	15%	\$14,055
Lake Geneva, City	Mercantile	\$210,700	23%	\$48,461
Lake Geneva, City	Residential	\$1,096,500	20%	\$219,300
Lake Geneva, City	Mercantile	\$270,500	20%	\$54,100
Lake Geneva, City	Other Land	\$1,321,700	20%	\$264,340
Lake Geneva, City	Other Land	\$114,800	20%	\$22,960
		\$4,229,400.00		\$847,516.00
Linn, Town	Residential	\$233,700	20%	\$46,740
Linn, Town	Residential	\$125,200	15%	\$18,780
Linn, Town	Residential	\$1,867,500	44%	\$821,700
Linn, Town	Residential	\$1,682,400	20%	\$336,480
Linn, Town	Residential	\$1,181,700	38%	\$449,050
Linn, Town	Residential	\$203,000	20%	\$40,600
Linn, Town	Residential	\$2,953,200	20%	\$590,640
		\$8,246,700.00		\$2,303,990.00
Lyons, Town	Residential	\$57,300	20%	\$11,460
Lyons, Town	Residential	\$167,300	51%	\$85,323
Lyons, Town	Mercantile	\$53,000	20%	\$10,600
Lyons, Town	Mercantile	\$243,000	15%	\$36,450
Lyons, Town	Mercantile	\$488,200	51%	\$248,980
Lyons, Town	Mercantile	\$488,200	51%	\$248,980
Lyons, Town	Mercantile	\$92,200	20%	\$18,440
Lyons, Town	Mercantile	\$23,050	20%	\$4,610
Lyons, Town	Agriculture	\$191,800	15%	\$28,770
Lyons, Town	Residential	\$91,900	28%	\$25,732
Lyons, Town	Residential	\$102,500	20%	\$20,500
Lyons, Town	Residential	\$13,614	20%	\$2,723
Lyons, Town	Residential	\$13,614	28%	\$3,812
Lyons, Town	Residential	\$13,614	20%	\$2,723
Lyons, Town	Residential	\$13,614	23%	\$3,131
Lyons, Town	Residential	\$13,614	20%	\$2,723

Jurisdiction	Land Use	Market Value of Structure	Percent Damage	100-Year Flood Damage
Lyons, Town	Residential	\$13,614	20%	\$2,723
Lyons, Town	Residential	\$13,614	15%	\$2,042
Lyons, Town	Residential	\$143,600	28%	\$40,208
Lyons, Town	Residential	\$98,200	23%	\$22,586
Lyons, Town	Agriculture	\$104,400	28%	\$29,232
Lyons, Town	Residential	\$24,500	20%	\$4,900
Lyons, Town	Residential	\$53,800	20%	\$10,760
Lyons, Town	Residential	\$109,800	20%	\$21,960
Lyons, Town	Residential	\$76,200	20%	\$15,240
Lyons, Town	Residential	\$153,400	15%	\$23,010
Lyons, Town	Residential	\$139,900	15%	\$20,985
Lyons, Town	Residential	\$128,200	15%	\$19,230
Lyons, Town	Residential	\$111,200	23%	\$25,576
Lyons, Town	Residential	\$158,600	15%	\$23,790
Lyons, Town	Residential	\$143,700	15%	\$21,555
Lyons, Town	Residential	\$126,100	15%	\$18,915
Lyons, Town	Residential	\$155,700	20%	\$31,140
Lyons, Town	Residential	\$162,700	23%	\$37,421
Lyons, Town	Residential	\$121,300	28%	\$33,964
Lyons, Town	Residential	\$129,500	20%	\$25,900
Lyons, Town	Residential	\$159,000	20%	\$31,800
Lyons, Town	Residential	\$111,800	20%	\$22,360
Lyons, Town	Residential	\$158,500	20%	\$31,700
Lyons, Town	Residential	\$145,400	20%	\$29,080
Lyons, Town	Residential	\$128,700	20%	\$25,740
Lyons, Town	Residential	\$152,400	20%	\$30,480
Lyons, Town	Residential	\$129,700	15%	\$19,455
Lyons, Town	Residential	\$149,200	23%	\$34,316
Lyons, Town	Residential	\$150,700	15%	\$22,605
Lyons, Town	Residential	\$133,300	15%	\$19,995
Lyons, Town	Agriculture	\$47,550	20%	\$9,510
Lyons, Town	Swamp and Waste	\$500	20%	\$100
Lyons, Town	Agriculture	\$47,550	20%	\$9,510
Lyons, Town	Other Land	\$102,100	20%	\$20,420
Lyons, Town	Mercantile	\$23,050	15%	\$3,458
Lyons, Town	Mercantile	\$23,050	15%	\$3,458
Lyons, Town	Mercantile	\$23,050	15%	\$3,458
Lyons, Town	Residential	\$66,100	20%	\$13,220
Lyons, Town	Residential	\$84,000	20%	\$16,800
Lyons, Town	Residential	\$42,000	15%	\$6,300
Lyons, Town	Residential	\$29,700	20%	\$5,940
Lyons, Town	Residential	\$103,000	20%	\$20,600
Lyons, Town	Residential	\$900	20%	\$180
Lyons, Town	Agriculture	\$60,500	20%	\$12,100
Lyons, Town	Residential	\$75,000	20%	\$15,000
Lyons, Town	Mercantile	\$10,800	20%	\$2,160
Lyons, Town	Agriculture	\$96,100	20%	\$19,220
		\$6,488,198.00		\$1,615,059.00
Sharon, Town	Other Land	\$36,900	20%	\$7,380
Sharon, Town	Residential	\$200,700	15%	\$30,105
Sharon, Town	Agriculture	\$145,100	20%	\$29,020
Sharon, Town	Agriculture	\$145,100	20%	\$29,020
Sharon, Town	Residential	\$103,500	20%	\$20,700
		\$631,300.00		\$116,225.00
Spring Prairie, Town	Residential	\$66,000	20%	\$13,200

Jurisdiction	Land Use	Market Value of Structure	Percent Damage	100-Year Flood Damage
Spring Prairie, Town	Swamp and Waste	\$215,800	20%	\$43,160
Spring Prairie, Town	Residential	\$87,400	20%	\$17,480
Spring Prairie, Town	Residential	\$101,000	15%	\$15,150
Spring Prairie, Town	Residential	\$81,600	15%	\$12,240
Spring Prairie, Town	Residential	\$92,000	15%	\$13,800
Spring Prairie, Town	Residential	\$90,000	20%	\$18,000
Spring Prairie, Town	Residential	\$78,000	20%	\$15,600
		\$811,800.00		\$148,630.00
Sugar Creek, Town	Residential	\$143,700	15%	\$21,555
Sugar Creek, Town	Residential	\$147,100	23%	\$33,833
Sugar Creek, Town	Residential	\$147,100	20%	\$29,420
Sugar Creek, Town	Agriculture	\$67,400	15%	\$10,110
Sugar Creek, Town	Agriculture	\$108,100	20%	\$21,620
		\$613,400.00		\$116,538.00
Troy , Town	Other Land	\$153,500	20%	\$30,700
Troy , Town	Residential	\$112,400	20%	\$22,480
		\$265,900.00		\$53,180.00
Whitewater, City	Other Land	\$101,700	15%	\$15,255
Whitewater, City	Residential	\$137,200	15%	\$20,580
Whitewater, City	Residential	\$68,000	15%	\$10,200
Whitewater, City	Residential	\$139,100	15%	\$20,865
Whitewater, City	Residential	\$82,300	20%	\$16,460
Whitewater, City	Residential	\$130,900	15%	\$19,635
Whitewater, City	Residential	\$142,300	20%	\$28,460
Whitewater, City	Residential	\$66,400	20%	\$13,280
Whitewater, City	Residential	\$101,900	20%	\$20,380
Whitewater, City	Residential	\$127,900	20%	\$25,580
Whitewater, City	Residential	\$112,000	15%	\$16,800
Whitewater, City	Residential	\$101,700	15%	\$15,255
Whitewater, City	Residential	\$126,600	15%	\$18,990
Whitewater, City	Residential	\$61,900	20%	\$12,380
Whitewater, City	Residential	\$54,100	20%	\$10,820
Whitewater, City	Residential	\$82,000	15%	\$12,300
Whitewater, City	Residential	\$138,300	15%	\$20,745
Whitewater, City	Residential	\$122,200	20%	\$24,440
Whitewater, City	Residential	\$131,200	20%	\$26,240
Whitewater, City	Residential	\$68,600	20%	\$13,720
Whitewater, City	Residential	\$82,300	20%	\$16,460
Whitewater, City	Residential	\$157,200	20%	\$31,440
Whitewater, City	Residential	\$36,900	20%	\$7,380
Whitewater, City	Other	\$139,100	20%	\$27,820
		\$2,511,800.00		\$445,485.00
Whitewater , Town	Residential	\$208,800	15%	\$31,320
Whitewater , Town	Residential	\$49,800	20%	\$9,960
		\$258,600.00		\$41,280.00
			Total	\$21,683,406



VILLAGE OF WILLIAMS BAY

250 Williams Street | PO Box 580 | Williams Bay | WI | 53191 | williamsbay.org
Phone: 262-245-2700

UNOFFICIAL MINUTES PARKS AND LAKEFRONT COMMITTEE WEDNESDAY, MARCH 15, 2023, AT 6:30 PM VILLAGE HALL COUNCIL ROOM

Call to Order

Meeting was called to order by Chairman D'Alessandro at 7:29pm

Roll Call

Present: Trustees D'Alessandro, Stanek and Wright

Also Present: President Duncan, Trustees Vlach and Umans, Interim Administrator Bretl, Treasurer Peternell, Director of Public Works Edwards, Police Chief Timm, Recreation Director Rowland, Harbormaster Blincoe and Engineer Snyder.

Meeting Minutes

Wright/Stanek motion to approve meeting minutes of February 15, 2023, and Joint Parks & Lakefront Committee and Finance & Personnel Committee meeting minutes of February 20, 2023. Unanimously carried.

Recreation Department Directors Report

Rowland provided an update on Recreation Department upcoming programs. Rowland stated that he has received inquiries from baseball organizations regarding renting the fields at Theatre Road once the updates are completed. D'Alessandro stated that a policy would need to be drafted for review at a future meeting.

Monthly Reports for Rec Department

The Committee reviewed the monthly recreation department activity reports.

Edgewater Park Application – Farmer's Market

D'Alessandro spoke on behalf of the WBBA regarding the Edgewater Park Application for the 2023 Farmer's Market every Friday from May 29, 2023, to September 4, 2023. Wright/Stanek motion to recommend Village Board approval of the WBBA Edgewater Park Application. D'Alessandro abstained; motion carried.

Linn Beach Tag Agreement

Discussion was held regarding the 2023 proposed beach tag agreement with the Town of Linn. As in years past, the Village would provide Town of Linn residents with beach tags and at the end of the season bill the Town of Linn. D'Alessandro expressed concern about the additional time involved for our staff during one of the busiest times of the year and didn't want to put the additional burden on our staff and recommended providing tags to the Town of Linn to distribute to their residents. Stanek/Wright motion to recommend Village Board approval of providing and billing the Town of Linn for 200 tags at the non-resident rate. The Town of Linn can purchase additional tags if needed or return unused tags for a refund. Unanimously carried.

Boat Cleaning Station

The Committee discussed the boat cleaning stations being offered to the Village. Bretl stated that the Town of Linn declined the donation of the CD3 mobile unit and suggested that the Village accept that unit instead of the unit being offered by the Geneva Lake Conservancy. Stanek/Wright motion to accept the donation of the (2) CD3 mobile units from Geneva Lake Environmental Agency and decline the donation of the unit from the Geneva Lake Conservancy. Unanimously carried.

Demo of Old Tennis Courts

Bretl is requesting direction from the Committee regarding whether to move forward with removing the old tennis courts before a determination has been made on the proposed new courts at Theatre Road. Edwards expressed concern about Odling being able to hold pricing and scheduling if we delay moving forward. It was the consensus of the Committee to contact Odling to inform them of the situation and ask if they will hold their pricing and schedule.

Adjourn

Stanek/Wright motion to adjourn at 8:03pm. Unanimously carried.

/s/ Lori Peternell, Village Treasurer

These are not official minutes until approved by the Parks and Lakefront Committee

Recreation Department Director Report by Dave Rowland 4/11/2023

- Truck-A-Palooza is all ready to go to at the school this Saturday from 4-6pm! We have more than 20 trucks expected at the event with free food and music! We hope that the weather will cooperate for this great event.
- Baseball and Softball registration has come to a close. We have a total of 9 teams this year! We did not form a team for 7th and 8th grade baseball, but we were able to move our players to Big Foot. They did not have enough players for their 7th and 8th grade softball team, so we were able to take their players as well. This worked out so there were no kids that couldn't play baseball or softball in both communities this season.
- Baywood Heights and Lions Park playgrounds should be finished by the end of next week, weather permitting!
- The new fence at Theatre Road is up and ready for the season!
- New program Safe sitter Babysitting course is full and is currently on a waiting list. The course is this Saturday and lasts five hours. The course certifies the participants in babysitting. We also worked with Sean Mckean to offer first aid/cpr training at the end of the course.
- We had a great turnout for spring break open gym over the break. Participants were able to play basketball or pickleball each day. We had at least 15 participants each day!
- Community garden work will be finished up in the next two weeks for our opening of May 1st for the community!

2023	January	February	March	April	May	June	July	August	September	October	November	December	YTD
Tot	0	0	0	0									0
Youth	32	0	0	0									32
Youth Sport	114	179	155	70									518
Family	0	114	0	0									114
Adult	134	127	159	20									440
Senior	65	110	125	16									316
Monthly Totals	345	530	439	106									1,420
YTD	345	875	1314	1420									

2022	January	February	March	April	May	June	July	August	September	October	November	December	YTD
Tot										0	0	0	0
Youth										0	18	23	41
Youth Sport										48	27	115	190
Family										928	0	58	986
Adult										105	79	155	339
Senior										70	65	45	180
Monthly Totals										1,151	189	396	1,736
YTD										1,151	1,340	1,736	

RE: A message from your K A Fireworks Displays LLC contact form.

Frank Frosolone Sr <frank@kickassfireworks.com>

Fri 3/10/2023 12:35 PM

To: Lori Peternell <treasurer@vi.williamsbay.wi.gov>

Hi Lori.

We charge \$1,000.00 per Min, our fireworks include 2,3,4,6,8-inch mortars.

Approximately , 30 Muli shot cakes all 1.3 professional fireworks.

I would need site location and with 8" mortars 600' from the spectators.

We do an intro, a main event, and a finally for 4-5 min.

If you like you may join me to design your show.

Would we need to provide a barge, or would you have that available for us?

We are looking at approximately 3000+ shots for 25 min.

References:

David Woodhouse, Walworth County, WI	262-374-1127
Barry Eldridge, Walworth WI,	815-378-2034
Mike DeSerto, High Hopes Farm, Wedding Venue, Marengo, IL	815-790-2906
James Guadagnoli, Saint Charles IL,	847-927-0315

Thank You

Frank Frosolone

K A Fireworks Displays LLC

www.kafireworksdisplays.com

847-293-8465

1924 Main Street Rd

Spring Grove IL. 60081

From: K A Fireworks Displays LLC <notice@godaddy.com>

Sent: Friday, March 10, 2023 10:07 AM

To: Frank Frosolone Sr <frank@kickassfireworks.com>

Subject: A message from your K A Fireworks Displays LLC contact form.



**QUOTE FOR 2023 CORN & BRAT FESTIVAL - WILLIAMS BAY, WI
\$25,000.00 FIREWORKS PROGRAM FOR AUGUST 13, 2023**

MAIN SHOW

- (6) - Multi-shot Roman Candle**
- (30) - Mine/Comet blend**
- (5) - Class B/C Multi-shot/multi color cakes**
- (21) - 3" "W" Pattern**
- (265) - 3" Spectrum and imported - Color/effect variety**
- (165) - 4" Spectrum and imported - Color/effect variety**
- (135) - 5" Spectrum and imported - Color/effect variety**
- (70) - 6" Spectrum and imported - Color/effect variety**

FINALE

- (3) - Class B/C Multi-shot/multi color cakes**
- (250) - 3" Spectrum color/report**
- (100) - 4" Spectrum color**
- (30) - 5" Spectrum Golden Kamuro**

TOTAL SHOW LENGTH (IN MINUTES): 18-20

**THIS IS A TURNKEY PROPOSAL. COST COVERS ALL MATERIALS, INSURANCE,
LABOR AND TRANSPORTATION.**

TERMS: 100% DEPOSIT DUE ON DATE OF DISPLAY

**SPECTRUM PYROTECHNICS, INCORPORATED
W9285 STATE ROAD 16 AND 60, REESEVILLE, WI 53579
PHONE: 920.927.5770
WEBSITE: WWW.SPECTRUMPYROTECHNICS.COM**

REFERENCE LIST

Derek Henze

**Event Director - Milton, WI 4th of July Festival
262-473-9585**

Ross Bole

**Town Chairman - Town of Pembine, WI
906-221-7785**

Ryan Callahan

**Director of Athletics - UW-Whitewater, Whitewater, WI
262-472-4661**



April 5, 2023

Dear Village of Williams Bay board members,

Thank you for the opportunity to submit a proposal for the 2023 Williams Bay Lions Club Corn & Brat Festival fireworks display. 2023 marks J&M's 42nd year in the fireworks business. Please let me tell you a bit about J&M's background.

J&M Displays, Inc. has enjoyed shooting your display since 2018 and looks forward to working with the Village and Lions Club again. We are no stranger to the lakes area, having shot displays both on and off the water in many communities in the area. A few of our clients include the Milwaukee Lakefront Fireworks, the Lake Geneva Jaycees Venetian Festival, the Fontana 4th of July, and the city of Delavan 4th of July. The last three of these have been J&M clients for over 25 years! We have very good working relationships with Geneva Lake Law Enforcement, the Water Safety Patrol, and many fire and police departments around the lakes area. We have a spotless safety record here.

One item that sets apart from most of our competitors is our \$10,000,000 liability insurance coverage which is extended to cover your event. I have included a copy of our insurance certificate for your verification. This coverage not only covers the Village, but also the Lions Club, and Austin Pier Service and their barges. Most policies do not cover vessels not owned by the fireworks company...ours does! We also have a few incentive programs to help out our customers during these economically challenging times.

The Village has taken part in two of our bonus programs which give FREE fireworks to the display. The first is an early pay incentive which gets you 8% Bonus fireworks for paying for your display 70 days before the show date. With this year's program, that is \$1478 in additional fireworks.

The other program is a customer loyalty program for clients who retain our services back to back years. The Village has reached our highest bonus level, 15%, and will receive \$2397 in free fireworks for this bonus. Those together total \$4175 of free material for your display.

This year's display is programed to last between 19 and 20 minutes. It will be scripted into a computer and fired on site using a wireless firing system so the creww does not have to be on board the fireworks barges during the display. The final page of the display of the proposal has a breakdown of sizes/quantities of materials that will be used in the display.(if anyone would like to see a shell by shell priced proposal, I will happy to forward that to you as well)

Fireworks proposals are very hard to compare just on paper, as quality of fireworks, timing, artistry, and consistancy usually are not listed. We hope that what we have done for you in the past years is a good representation of the type of displays and work ethic we will continue to provide you into the future.

Thank you for your consideration!

Sincerely,

A handwritten signature in black ink, appearing to read "Bryan D. Olson". The signature is fluid and cursive, with a long horizontal stroke at the end.

Bryan D. Olson

Sales Representative/ Display Operator



J&M Displays Proposal for: Village of Williams Bay Lions Corn & Brat Festival - 2023

Opening

2.5 Inch Finales

Quantity	Name	Rising Effect
----------	------	---------------

4	Color Chrys Dark Star Salute Combo Chains 10 Shot finale chain	
---	--	--

Category Shell Count: 40

6 Inch Special Effect Shells

Quantity	Name	Rising Effect
----------	------	---------------

1	Nishiki kamuro to green strobe w/green strobe pistil	
---	--	--

Category Shell Count: 1

Section Shell Count: 41

Flights

3 Inch Color Shells

Quantity	Name	Rising Effect
----------	------	---------------

3	Half red half blue chrysanthemum with silver peony ring	
3	Gold Spangle chrysanthemum with crackling	
3	Nishiki kamuro niagara falls	
3	3" Brocade Crown crossette	
3	3" FLOWER CROWN HORSE TAIL	
3	3" WHITE STROBE HORSE TAIL	

Category Shell Count: 18

3 Inch Special Effect Shells

Quantity	Name	Rising Effect
----------	------	---------------

3	Gold glitter rays with purple and green ELECTRIC FIRE ONLY (cylinder)	
3	3" Red white blue with titanium salute (Cylinder)	
3	Farfallas and silver glitter to red ELECTRIC FIRE ONLY (cylinder)	
3	Kamuro serpents to reports with green and violet center ELECTRIC FIRE ONLY (cylinder)	

Category Shell Count: 12

4 Inch Color Shells

Quantity	Name	Rising Effect
----------	------	---------------

4	4" BROCADE CROWN HORSE TAIL	
---	-----------------------------	--

Category Shell Count: 4

5 Inch Color Shells

Quantity	Name	Rising Effect
----------	------	---------------

4	5" Red waterfall	
---	------------------	--

Category Shell Count: 4

Section Shell Count: 38

Main Event



J&M Displays Proposal for: Village of Williams Bay Lions Corn & Brat Festival - 2023

Main Event

3 Inch Color Shells

Quantity	Name	Rising Effect
----------	------	---------------

- | | | |
|---|---|--|
| 1 | Assortment H of 20 different J&M shells ELECTRIC FIRE | |
| 2 | Assortment T of 20 different J&M Brand Shells ELECTRIC FIRE | |
| 1 | Assortment Y of 10 pairs of 3" J&M shells ELECTRIC FIRE (Low fallout) | |

Category Shell Count: 80

4 Inch Color Shells

Quantity	Name	Rising Effect
----------	------	---------------

- | | | |
|---|---|--|
| 1 | Gold willow with color pistil | |
| 1 | Lemon Dahlia | |
| 1 | 4" Dispark Chrys (crackle) | |
| 1 | 4" TANGERINE PEONY | |
| 2 | 4"BLUE TO SILVER PEONY | |
| 2 | 4"GOLDEN WAVENEW GRASS GREEN | |
| 2 | 4"SILVER WAVENEW GRASS GREEN | |
| 2 | 4"YELLOW TO WHITE PEONY | |
| 1 | 4" BLUE CROSSETTE | |
| 1 | 4" PINK DRAGON (comets to reports) | |
| 1 | 4" Shell Brocade Crown | |
| 1 | 4"Blue to silver chry. | |
| 1 | 4"Flower crown coconut | |
| 1 | 4"Golden flash to color | |
| 1 | 4"RED TO BLUE CROSSETTE | |
| 2 | 4"Red Ring white strobe to salute | |
| 1 | 4"SILVER CRACKLING STARS | |
| 1 | 4"SILVER TO GREEN CROSSETTE | |
| 1 | 4"Silver time rain to white flash | |
| 1 | 4"WHITE STROBE HORSE TAIL | |
| 1 | 4"Dragon Eggs | |
| 1 | Brocade Crown crossette | |
| 1 | Brocade crown coconut | |
| 1 | Assortment O of 18 different (36 shells) J&M Brand shells ELECTRIC FIRE | |

Category Shell Count: 64

4 Inch Special Effect shells

Quantity	Name	Rising Effect
----------	------	---------------

- | | | |
|---|--|--|
| 2 | 4" BLUE STROBE HORSE TAIL | |
| 2 | 4" FALLING LEAVES GREEN | |
| 2 | 4" FALLING LEAVES RED | |
| 1 | 4" WHITE STROBE | |
| 1 | Brocade flower crown bowtie with red ring | |
| 1 | Silver dragon w/ red crossette ring (cylinder) | |

Category Shell Count: 9



J&M Displays Proposal for: Village of Williams Bay Lions Corn & Brat Festival - 2023

Main Event

5 Inch Color Shells

Quantity	Name	Rising Effect
1	5"Blue to red to crackle	
1	1/4 Peony with crackle pistil	
1	5" CRACKLING WILLOW	
1	5" NEW COLOR CROSSETTE	
1	5"Blue dark golden flash	
1	5"Brocade Crown to white flash	
1	5"Golden chry. flower (crackle)	
1	5"Green coconut w/big brocade tail	
1	5"Green spike	
1	5"New grass green chry.	
1	5"RED TRACER	
1	5"Red coconut w/big brocade tail	
1	5"Silver crown to red spike	
1	Medusa pattern (E-Fire ONLY) (assorted case)	
1	White strobe to reports	
1	Willow to variegated w/ rising flowers	
2	Assortment O of 15 different J&M Brand shells ELECTRIC FIRE	

Category Shell Count: 46

5 Inch Special Effect Shells

Quantity	Name	Rising Effect
2	Var. color crackling diadem	
1	Var. color flowers sheet with spangle pistil	
1	Var. color meteor	
1	5"Golden flash	
1	5"Lemon special flash	
1	Willow with flickering with purple and lemon dahlia pistil	

Category Shell Count: 7

6 Inch Color Shells

Quantity	Name	Rising Effect
1	Assortment B of 9 different T-Sky brand shells ELECTRIC FIRE	
1	Assortment C of 9 different J&M brand shells ELECTRIC FIRE	
1	Assortment O of 9 different J&M Brand shells ELECTRIC FIRE	
1	Assortment Q of 9 different Long Duration J&M Brand Shells ELECTRIC FIRE	
1	Assortment T of 9 different J&M brand shells ELECTRIC FIRE	

Category Shell Count: 45

Section Shell Count: 251

Finales

4 Inch Finales

Quantity	Name	Rising Effect
3	Color (rainbow) 8 shot finale chain	

Category Shell Count: 24



J&M Displays Proposal for: Village of Williams Bay Lions Corn & Brat Festival - 2023

Finales

2.5 Inch Finales

Quantity	Name	Rising Effect
----------	------	---------------

6	Spiderweb 10 Shot finale chain	
---	--------------------------------	--

Category Shell Count: 60

3 Inch Finales

Quantity	Name	Rising Effect
----------	------	---------------

15	Rainbow 10 Shot finale chain	
----	------------------------------	--

6	Red salute and blue dahlia 10 Shot finale chain	
---	---	--

Category Shell Count: 210

5 Inch Color Shells

Quantity	Name	Rising Effect
----------	------	---------------

6	Assorted Chrysanthemums (E-FIRE Only)	
---	---------------------------------------	--

5	5" Brocade Crown	
---	------------------	--

Category Shell Count: 11

6 Inch Color Shells

Quantity	Name	Rising Effect
----------	------	---------------

6	Brocade Crown crossette	
---	-------------------------	--

Category Shell Count: 6

Section Shell Count: 311

Miscellaneous

Glow Stick

Quantity	Name	Rising Effect
----------	------	---------------

10	Glow - Concert Stick (10" glow stick)	
----	---------------------------------------	--

Category Shell Count: 0

Racks - Metal

Quantity	Name	Rising Effect
----------	------	---------------

2	Carpet runner (12" X 200') for covering racks	
---	---	--

Category Shell Count: 0

Ignition Items

Quantity	Name	Rising Effect
----------	------	---------------

300	MJG 10' (non-regulated ATF) Igniters with 10' leads (FWI 10 - 30 per box)	
-----	---	--

75	MJG 15' (non-regulated ATF) Igniters with 15' leads (FWI15 - 20 per box)	
----	--	--

Category Shell Count: 0

Section Shell Count: 0

8% Free for Early Payment

Proposal #: 24126 Designed on: 2023-04-05 17:04:06 Printed on: Wed Apr 5 12:04:59 2023 Page: 4 of 6

18064 170th Avenue, Yarmouth, Iowa 52660-9772
1-800-648-3890 • Fax: 1-319-394-3265 • main@jandmdisplays.com • www.jandmdisplays.com



J&M Displays Proposal for: **Village of Williams Bay Lions Corn & Brat Festival - 2023**

8% Free for Early Payment

Multi-shell Barrage Units

Quantity	Name	Rising Effect
1	Silver spinners to Red & Blue w/ report finale 36 shot "I" shape	
1	Five changing effect cake 100 shot	
1	Red comets to Red Strobe Willow with Blue 49 shot	
1	Super crown with blue stars with mines 49 shot	

Category Shell Count: 234

4 Inch Color Shells

Quantity	Name	Rising Effect
1	Rainbow crossette	

Category Shell Count: 1

6 Inch Special Effect Shells

Quantity	Name	Rising Effect
1	Reddish gamboge to green & purple swimming w/crackling pistil	
1	Strobing chrys w/var. color flower sheets	
1	Reddish gamboge to green crackling chrys w/double crackling pistils w/gold tail	

Category Shell Count: 3

Section Shell Count: 238

15% Free for Loyalty Program

Multi-shell Barrage Units

Quantity	Name	Rising Effect
1	Gold flash tail to red green blue dahlia chrysanthemum 100 shot	
1	Silver Lion blood red and blue dahlia 80 shot fan	

Category Shell Count: 180

4 Inch Color Shells

Quantity	Name	Rising Effect
1	Color dahlia with silver strobe	
1	Crackling willow	

Category Shell Count: 2

4 Inch Finales

Quantity	Name	Rising Effect
6	Color (rainbow) 8 shot finale chain	

Category Shell Count: 48

Section Shell Count: 230



J&M Displays Proposal for: Village of Williams Bay Lions Corn & Brat Festival - 2023

This proposal includes an extension of our \$10,000,000.00 spectator liability insurance, and workers compensation on our shoot team.

Total Price of Show: **\$25,000.00**

Total Shot Count: 1109

Packing Check: 567

Date of Display: 08/12/23

Customer Number: 12222

Please Note the Following Comments:

The data in this proposal is confidential, and is to be accorded confidential treatment and shall not be disclosed other than to the official representative of the organization listed on the cover, and only then when in the evaluation of this proposal. Any reproduction of the contents of this proposal, whether in whole or in part, is expressly forbidden. J&M Displays, Inc. requests that all information be safeguarded from release pursuant to any request under the Freedom of Information Law of this state or any other state or jurisdiction; as it may cause competitive disadvantage to our company. The enclosed concepts and materials are the sole and exclusive property of J&M Displays, Inc. We reserve the right to make substitutions of equal or greater value. Prices and specifications are subject to change without notice. For choreographed displays the quantity and sizes of product may change based on the music selected; however, the dollar value of the product will remain the same.

Diameter	Quantity	Shots	Racks
Shells			
3"	34	110	11
4"	45	80	10
5"	40	68	14
6"	15	55	14
Shells Shot Ct: 313			
Multi-shell Barrage Units			
0.75"	1	100	
1.2"	5	314	
Multi-shell Barrage Units Qty: 6 Shot Ct: 414			
Finales			
2.5"	10	100	10
3"	21	210	21
4"	9	72	9
Finales Qty: 40 Shot Ct: 382			
Igniters Needed: 359			



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

4/5/2023

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Britton Gallagher One Cleveland Center, Floor 30 1375 East 9th Street Cleveland OH 44114	CONTACT NAME: PHONE (A/C, No, Ext): 216-658-7100 FAX (A/C, No): 216-658-7101 E-MAIL ADDRESS:	
	INSURER(S) AFFORDING COVERAGE INSURER A : Everest Denali Insurance Company INSURER B : Axis Surplus Ins Company INSURER C : Everest Indemnity Insurance Co. INSURER D : INSURER E : INSURER F :	
INSURED J & M Displays, Inc. 18064 170th Avenue Yarmouth IA 52660	NAIC # 16044 26620 10851	

COVERAGES

CERTIFICATE NUMBER: 1391962331

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
C	GENERAL LIABILITY ☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC		SI8ML00060-231	1/15/2023	1/15/2024	EACH OCCURRENCE DAMAGE TO RENTED PREMISES (Ea occurrence) MED EXP (Any one person) PERSONAL & ADV INJURY GENERAL AGGREGATE PRODUCTS - COMP/OP AGG	\$ 1,000,000 \$ 500,000 \$ \$ 1,000,000 \$ 2,000,000 \$ 2,000,000 \$
A	AUTOMOBILE LIABILITY ☒ ANY AUTO ALL OWNED AUTOS ☒ HIRED AUTOS ☐ SCHEDULED AUTOS ☒ NON-OWNED AUTOS		SI8CA00033-231	1/15/2023	1/15/2024	COMBINED SINGLE LIMIT (Ea accident) BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)	\$ 1,000,000 \$ \$ \$
B	UMBRELLA LIAB ☒ OCCUR ☒ EXCESS LIAB DED RETENTION \$		P-001-000063943-05	1/15/2023	1/15/2024	EACH OCCURRENCE AGGREGATE	\$ 5,000,000 \$ 5,000,000 \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N ☐ N/A				WC STATUTORY LIMITS E.L. EACH ACCIDENT E.L. DISEASE - EA EMPLOYEE E.L. DISEASE - POLICY LIMIT	 \$ \$ \$
C	Excess Liability #2		SI8EX01313-231	1/15/2023	1/15/2024	Each Occ/ Aggregate Total Limits	\$4,000,000 \$10,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Additional Insured extension of coverage is provided by above referenced General Liability policy where required by written agreement.

FIREWORKS DISPLAY DATE: August 12, 2023

RAIN DATE: August 13, 2023

LOCATION OF EVENT: Geneva Lake, Williams Bay, Wisconsin

ADD'L INSURED: The Village of Williams Bay, Wisconsin, its employees, volunteers, officers, elected officials, partners, subsidiaries, divisions & affiliates, event sponsors & landowners as their interest may appear in relation to this event; Williams Bay Lions Club (sponsor); Austin Pier Service (barge supplier)

CERTIFICATE HOLDER

CANCELLATION

Village of Williams Bay PO Box 580 Williams Bay WI 53184 USA	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE

© 1988-2010 ACORD CORPORATION. All rights reserved.



FIREWORKS DISPLAY AGREEMENT

THIS AGREEMENT is made and entered into this 5th day of April, 2023, by and between J&M Displays, Inc., an Iowa corporation, having its principal place of business at Yarmouth, Iowa, including its employees, owners, and agents, hereinafter referred to as "Seller", and Village of Williams Bay, WI, hereinafter referred to as "Buyer".

Seller shall furnish to Buyer one (1) fireworks display, as per the \$ 25,000 program (the "Fireworks Program") submitted to and accepted by the Buyer, and which by reference is made a part hereof as Exhibit A. The display is to take place on the evening of August 12, 2023 at approximately 9:00 p.m., weather permitting.

IT IS FURTHER UNDERSTOOD AND AGREED BETWEEN THE PARTIES AS FOLLOWS:

I. FIRING OF DISPLAY

- a. Seller agrees to furnish all necessary fireworks display materials and personnel for a professional fireworks display in accordance with the Fireworks Program approved by the Parties. Seller agrees to comply with all local, state, and federal regulations and guidelines pertaining to the storing and displaying of fireworks. Seller, with Buyer's assistance, shall obtain any necessary permits for the fireworks display.
- b. Buyer Agrees to provide:
 - i. Sufficient area for the display, including a minimum spectator set back as determined by Seller;
 - ii. Protection of the display area by roping off or similar facility;
 - iii. Adequate police or security protection to prevent spectators from entering the display area; and
 - iv. Persons to assist in the inspection and cleanup of fireworks debris in the fallout zone of the shoot site at first light in the morning following the display;
- c. The cost and acquisition of any site-specific materials or display restrictions (such as sand or the use of a barge) shall be discussed prior to adoption of this Agreement, and the Party responsible for any such acquisition and cost shall be specifically laid out in the Fireworks Program (Exhibit A).
- d. Buyer understands that its failure to provide an appropriate area for the fireworks display, with requirement minimum setbacks and security, may result in a change to Buyer's display (such as a restriction on the type(s) of products which can be utilized) or a cancellation of the display for safety reasons, at Seller's sole discretion. In such event, if Buyer cannot immediately remedy the setback or security concern prior to the Display time noted above, Buyer remains responsible for the entire purchase price of the display regardless of any limitation or cancellation of the display.

II. PAYMENT. The Buyer shall pay to the Seller (check one of the below options):

- ☐ The sum of \$ _____ as a down payment upon execution of this Agreement. The balance of \$ _____ shall be due and payable within fifteen (15) days after the date of the fireworks display. A service charge of one and one-half percent (1 ½ %) per month shall be added to the unpaid balance if the account is not paid in full with the fifteen (15) days from the date of the display. If this account remains unpaid and is turned over to a collection agency for non-payment, all fees incurred in collecting the balance will be at the Buyer's expense. All returned checks will be assessed a \$30.00 fee.
- ☒ \$ 25,000 in full by June 3, 2023 (70 days prior to the display date). The Buyer will receive 8% prepayment bonus product in this fireworks display.
- ☐ \$ _____ in full by _____ (30 days prior to the display date). The Buyer will receive 5% prepayment bonus product in this fireworks display.

III. LOYALTY PROGRAM

- a. Seller has in place a bonus system for Buyer's who purchase their fireworks displays exclusively from Seller year-to-year. The full terms of Seller's loyalty program have been provided to Buyer with the Program and are available on J&M's website.
- b. Pursuant to Buyer's status in the loyalty program, Buyer will receive an additional ☐ 5% ☐ 10% ☒ 15% (check one) bonus product for this display.

IV. POSTPONEMENT/CANCELLATION

- a. Rain Date: Should inclement weather prevent the firing of the display on the date intended, the Parties agree to a mutually convenient rain date of August 13, 2023 or another date as agreed to by both Parties. Once display set-up has begun, the determination to cancel the fireworks display because of inclement weather or unsafe weather conditions shall rest within the sole discretion of the Seller, the Authority Having Jurisdiction, and the Seller's lead pyrotechnician.
- b. Except as specifically provided for elsewhere in this Agreement, neither Party will be liable for any failure or delay in performing an obligation under this Agreement that is due to any of the following causes (hereinafter referred to as "Force Majeure"), to the extent beyond the Party's reasonable control: acts of God, accident, riots, public disturbances including but not limited to an active-shooter situation, war, terrorist act, epidemic, pandemic, quarantine, civil commotion, breakdown of communication facilities, natural catastrophes, governmental acts or omissions, changes in laws or regulations, national strikes, fire, explosion, or generalized lack of availability of raw materials or energy.
- c. Disruption of Services due to Covid-19, supply chain disruptions, and public health. Fireworks displays and related events are prone to cancellation due to the ongoing and unforeseeable nature of the Covid-19 pandemic and related health issues, government intervention (such as stay-at-home orders or restrictions on gatherings), and unavailability of supplies and personnel. As such, Seller will work with all customers to ensure a timely and safe display, but due to circumstances outside Seller's and Buyer's control, certain fireworks displays may have to be cancelled or rescheduled with limited notice. Each Party's obligations to perform hereunder will be excused in the case of a Force Majeure Event, which is defined to include (but is not limited to) supply chain disruptions which prevent Seller from obtaining the necessary materials to perform the Display; medical conditions which result in quarantine or similar limitations, or restrictions on travel or congregation in the metropolitan area where the Display is scheduled to be held; and death, serious illness or incapacity of one or more of the display Shoot Team member(s) which renders it impossible, unsafe, or not reasonably practical for the Shoot Team to perform the display.

A governmental or municipal Buyer, who in its discretion and control, acts or adopts a restriction on public gatherings shall not be relieved of its obligations under the Force Majeure provisions of this Agreement. A Buyer who anticipates any such restriction or potential cancellation shall immediately notify and contact Seller to discuss alternative arrangements.

- d. Unless specified above: Displays postponed to an alternate date will be charged and additional 15% of the total contract price for additional expenses incurred in presenting the display on an alternate date; for Displays canceled and not rescheduled within the same calendar year, Seller shall be entitled to 20% of the contract price for out-of-pocket expenses incurred in preparation for the display.

V. INSURANCE and LIMITATIONS OF LIABILITY

- a. Seller agrees to provide, at its expense, general liability insurance coverage in an amount not less than \$10,000,000, and within two (2) weeks prior to the date of the fireworks display, shall submit to Buyer, if requested in writing, a certificate of insurance. All entities listed on the certificate of insurance will be deemed an additional insured. In the event of a claim by Buyer, the applicable deductible shall be paid by the Seller.

The Seller agrees to defend, indemnify, and hold harmless the Buyer and its agents and employees from and against all claims, costs, judgments, damages and expenses, including reasonable attorney's fees that

may or shall arise out of any negligent or wrongful act or omission by the Seller related to the performance of the fireworks for the Buyer. The Buyer agrees to give the Seller prompt notice of any claims or demands and to cooperate with the Seller or its successors in interest or assigns, if any, in the defense of any such claims and/or demands.

- b. Separate from, and in addition to Seller's insurance of the fireworks, Buyer agrees to provide, at its expense, a general liability policy or "special event" insurance coverage, in an amount sufficient to meet or exceed municipality or industry standards and all applicable requirements of local, state, and federal law. For any injury or property claims that may arise during the course of Buyer's event, not arising out of Seller's acts or the performance of the fireworks, Buyer's insurance shall be primary. Buyer agrees to defend, indemnify, and hold harmless the Seller and its agents and employees from and against all such claims, costs, judgments, damages and expenses, including reasonable attorney's fees that may or shall arise out of any negligent or wrongful act or omission by the Buyer or third-parties occurring during the course of Buyer's event.
- c. In no event shall Seller's liability to Buyer arising out of or related to this Agreement, whether arising out of or related to breach of contract, tort (including negligence), or otherwise, exceed the aggregate amount of insurance coverage as described in this section. Notwithstanding any provisions to the contrary, in no event shall either Party be liable to the other, or to any third party, for any loss of use, revenue or profit, or for any consequential, incidental, indirect, exemplary, special, or punitive damages whether arising out of breach of contract, tort (including negligence), or otherwise, regardless of whether such damage was foreseeable and whether or not such party has been advised of the possibility of such damages.

VI. Each Party has read all of the provisions of this Agreement, they understand all of its provisions, and agree to be bound by them. This written contract, and its Exhibits, contains the entire agreement of the Parties and modifies and supersedes all prior agreements or negotiations, all of which are merged into and incorporated into this Agreement. If any provision of this Agreement is held invalid or unenforceable, such invalidity or unenforceability shall not affect the other provisions of this agreement.

VII. Choice of Law, Jurisdiction, and Venue. This Agreement shall be governed by and construed in accordance with the laws of the State of Iowa without regard to conflict-of-law principles, except as otherwise specifically required for the storing and displaying of fireworks as set forth by State and Federal law. Notwithstanding, the Parties must bring any legal or equitable action or proceeding arising under or related to this Agreement exclusively in the Iowa District Court in and for Des Moines County, Iowa. The Iowa District Court in and for Des Moines County, Iowa shall have exclusive jurisdiction to decide any disputes arising out of or related to this Agreement. Each party knowingly and voluntarily consents to and expressly waives any objection or defense to personal jurisdiction, improper or inconvenient venue, or inconvenient forum in the Iowa District Court in and for Des Moines County, Iowa.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement the day and year first written above.

SELLER

BUYER

BY: Bryan D Olson

BY: _____

ROLE: Sales Representative

ROLE: _____

J&M Displays, Inc.

ENTITY: _____

Please include the **DISPLAY INFORMATION FORM** with this Agreement so your order is processed accurately.



FIREWORKS DISPLAY AGREEMENT

THIS AGREEMENT is made and entered into this 5th day of April, 2023, by and between J&M Displays, Inc., an Iowa corporation, having its principal place of business at Yarmouth, Iowa, including its employees, owners, and agents, hereinafter referred to as "Seller", and Village of Williams Bay, WI, hereinafter referred to as "Buyer".

Seller shall furnish to Buyer one (1) fireworks display, as per the \$ 25,000 program (the "Fireworks Program") submitted to and accepted by the Buyer, and which by reference is made a part hereof as Exhibit A. The display is to take place on the evening of August 12, 2023 at approximately 9:00 p.m., weather permitting.

IT IS FURTHER UNDERSTOOD AND AGREED BETWEEN THE PARTIES AS FOLLOWS:

I. FIRING OF DISPLAY

- a. Seller agrees to furnish all necessary fireworks display materials and personnel for a professional fireworks display in accordance with the Fireworks Program approved by the Parties. Seller agrees to comply with all local, state, and federal regulations and guidelines pertaining to the storing and displaying of fireworks. Seller, with Buyer's assistance, shall obtain any necessary permits for the fireworks display.
- b. Buyer Agrees to provide:
 - i. Sufficient area for the display, including a minimum spectator set back as determined by Seller;
 - ii. Protection of the display area by roping off or similar facility;
 - iii. Adequate police or security protection to prevent spectators from entering the display area; and
 - iv. Persons to assist in the inspection and cleanup of fireworks debris in the fallout zone of the shoot site at first light in the morning following the display;
- c. The cost and acquisition of any site-specific materials or display restrictions (such as sand or the use of a barge) shall be discussed prior to adoption of this Agreement, and the Party responsible for any such acquisition and cost shall be specifically laid out in the Fireworks Program (Exhibit A).
- d. Buyer understands that its failure to provide an appropriate area for the fireworks display, with requirement minimum setbacks and security, may result in a change to Buyer's display (such as a restriction on the type(s) of products which can be utilized) or a cancellation of the display for safety reasons, at Seller's sole discretion. In such event, if Buyer cannot immediately remedy the setback or security concern prior to the Display time noted above, Buyer remains responsible for the entire purchase price of the display regardless of any limitation or cancellation of the display.

II. PAYMENT. The Buyer shall pay to the Seller (check one of the below options):

- ☐ The sum of \$_____ as a down payment upon execution of this Agreement. The balance of \$_____ shall be due and payable within fifteen (15) days after the date of the fireworks display. A service charge of one and one-half percent (1 ½ %) per month shall be added to the unpaid balance if the account is not paid in full with the fifteen (15) days from the date of the display. If this account remains unpaid and is turned over to a collection agency for non-payment, all fees incurred in collecting the balance will be at the Buyer's expense. All returned checks will be assessed a \$30.00 fee.
- ☒ \$ 25,000 in full by June 3, 2023 (70 days prior to the display date). The Buyer will receive 8% prepayment bonus product in this fireworks display.
- ☐ \$_____ in full by _____ (30 days prior to the display date). The Buyer will receive 5% prepayment bonus product in this fireworks display.

III. LOYALTY PROGRAM

- a. Seller has in place a bonus system for Buyer's who purchase their fireworks displays exclusively from Seller year-to-year. The full terms of Seller's loyalty program have been provided to Buyer with the Program and are available on J&M's website.
- b. Pursuant to Buyer's status in the loyalty program, Buyer will receive an additional ☐ 5% ☐ 10% ☒ 15% (check one) bonus product for this display.

IV. POSTPONEMENT/CANCELLATION

- a. Rain Date: Should inclement weather prevent the firing of the display on the date intended, the Parties agree to a mutually convenient rain date of August 13, 2023 or another date as agreed to by both Parties. Once display set-up has begun, the determination to cancel the fireworks display because of inclement weather or unsafe weather conditions shall rest within the sole discretion of the Seller, the Authority Having Jurisdiction, and the Seller's lead pyrotechnician.
- b. Except as specifically provided for elsewhere in this Agreement, neither Party will be liable for any failure or delay in performing an obligation under this Agreement that is due to any of the following causes (hereinafter referred to as "Force Majeure"), to the extent beyond the Party's reasonable control: acts of God, accident, riots, public disturbances including but not limited to an active-shooter situation, war, terrorist act, epidemic, pandemic, quarantine, civil commotion, breakdown of communication facilities, natural catastrophes, governmental acts or omissions, changes in laws or regulations, national strikes, fire, explosion, or generalized lack of availability of raw materials or energy.
- c. Disruption of Services due to Covid-19, supply chain disruptions, and public health. Fireworks displays and related events are prone to cancellation due to the ongoing and unforeseeable nature of the Covid-19 pandemic and related health issues, government intervention (such as stay-at-home orders or restrictions on gatherings), and unavailability of supplies and personnel. As such, Seller will work with all customers to ensure a timely and safe display, but due to circumstances outside Seller's and Buyer's control, certain fireworks displays may have to be cancelled or rescheduled with limited notice. Each Party's obligations to perform hereunder will be excused in the case of a Force Majeure Event, which is defined to include (but is not limited to) supply chain disruptions which prevent Seller from obtaining the necessary materials to perform the Display; medical conditions which result in quarantine or similar limitations, or restrictions on travel or congregation in the metropolitan area where the Display is scheduled to be held; and death, serious illness or incapacity of one or more of the display Shoot Team member(s) which renders it impossible, unsafe, or not reasonably practical for the Shoot Team to perform the display.

A governmental or municipal Buyer, who in its discretion and control, acts or adopts a restriction on public gatherings shall not be relieved of its obligations under the Force Majeure provisions of this Agreement. A Buyer who anticipates any such restriction or potential cancellation shall immediately notify and contact Seller to discuss alternative arrangements.

- d. Unless specified above: Displays postponed to an alternate date will be charged and additional 15% of the total contract price for additional expenses incurred in presenting the display on an alternate date; for Displays canceled and not rescheduled within the same calendar year, Seller shall be entitled to 20% of the contract price for out-of-pocket expenses incurred in preparation for the display.

V. INSURANCE and LIMITATIONS OF LIABILITY

- a. Seller agrees to provide, at its expense, general liability insurance coverage in an amount not less than \$10,000,000, and within two (2) weeks prior to the date of the fireworks display, shall submit to Buyer, if requested in writing, a certificate of insurance. All entities listed on the certificate of insurance will be deemed an additional insured. In the event of a claim by Buyer, the applicable deductible shall be paid by the Seller.

The Seller agrees to defend, indemnify, and hold harmless the Buyer and its agents and employees from and against all claims, costs, judgments, damages and expenses, including reasonable attorney's fees that

may or shall arise out of any negligent or wrongful act or omission by the Seller related to the performance of the fireworks for the Buyer. The Buyer agrees to give the Seller prompt notice of any claims or demands and to cooperate with the Seller or its successors in interest or assigns, if any, in the defense of any such claims and/or demands.

- b. Separate from, and in addition to Seller's insurance of the fireworks, Buyer agrees to provide, at its expense, a general liability policy or "special event" insurance coverage, in an amount sufficient to meet or exceed municipality or industry standards and all applicable requirements of local, state, and federal law. For any injury or property claims that may arise during the course of Buyer's event, not arising out of Seller's acts or the performance of the fireworks, Buyer's insurance shall be primary. Buyer agrees to defend, indemnify, and hold harmless the Seller and its agents and employees from and against all such claims, costs, judgments, damages and expenses, including reasonable attorney's fees that may or shall arise out of any negligent or wrongful act or omission by the Buyer or third-parties occurring during the course of Buyer's event.
- c. In no event shall Seller's liability to Buyer arising out of or related to this Agreement, whether arising out of or related to breach of contract, tort (including negligence), or otherwise, exceed the aggregate amount of insurance coverage as described in this section. Notwithstanding any provisions to the contrary, in no event shall either Party be liable to the other, or to any third party, for any loss of use, revenue or profit, or for any consequential, incidental, indirect, exemplary, special, or punitive damages whether arising out of breach of contract, tort (including negligence), or otherwise, regardless of whether such damage was foreseeable and whether or not such party has been advised of the possibility of such damages.

VI. Each Party has read all of the provisions of this Agreement, they understand all of its provisions, and agree to be bound by them. This written contract, and its Exhibits, contains the entire agreement of the Parties and modifies and supersedes all prior agreements or negotiations, all of which are merged into and incorporated into this Agreement. If any provision of this Agreement is held invalid or unenforceable, such invalidity or unenforceability shall not affect the other provisions of this agreement.

VII. Choice of Law, Jurisdiction, and Venue. This Agreement shall be governed by and construed in accordance with the laws of the State of Iowa without regard to conflict-of-law principles, except as otherwise specifically required for the storing and displaying of fireworks as set forth by State and Federal law. Notwithstanding, the Parties must bring any legal or equitable action or proceeding arising under or related to this Agreement exclusively in the Iowa District Court in and for Des Moines County, Iowa. The Iowa District Court in and for Des Moines County, Iowa shall have exclusive jurisdiction to decide any disputes arising out of or related to this Agreement. Each party knowingly and voluntarily consents to and expressly waives any objection or defense to personal jurisdiction, improper or inconvenient venue, or inconvenient forum in the Iowa District Court in and for Des Moines County, Iowa.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement the day and year first written above.

SELLER

BUYER

BY: Bryan D Olson
ROLE: Sales Representative

J&M Displays, Inc.

BY: _____
ROLE: _____
ENTITY: _____

Please include the **DISPLAY INFORMATION FORM** with this Agreement so your order is processed accurately.

April 6, 2023

David Lothspeich, Administrator
Village of Williams Bay
250 Williams Street
Williams Bay, WI 53191

Subject: Dredging of Geneva Lake at Southwick Creek

Dear Mr. Lothspeich,

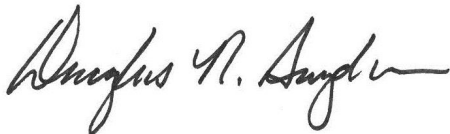
Attached is the individual permit for the dredging of Geneva Lake at Southwick Creek; Integrated Lakes Management (ILM) assisted the Village with this permit. This should be the only permit you need for this site in the future. Also attached is a three-page email dated April 4, 2023, with the history, estimate cost, and the next steps. The current estimate for this project is \$150,000 with approximately \$15,000 associated with the transport of the spoils from the lakeshore to the Odling Pit. This project is more than \$25,000 and could be considered public construction.

If the Village decides to move forward with this project, we recommend that the Village allow us to prepare a bid package to obtain costs for both the dredging and the removal of the spoil materials. The project could bid as early as June of 2023 and with construction occurring after October 1, 2023. Enclosed is an engineering work order for the bid package preparation and the contract administration.

Please call if you have any questions.

Sincerely,

BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS



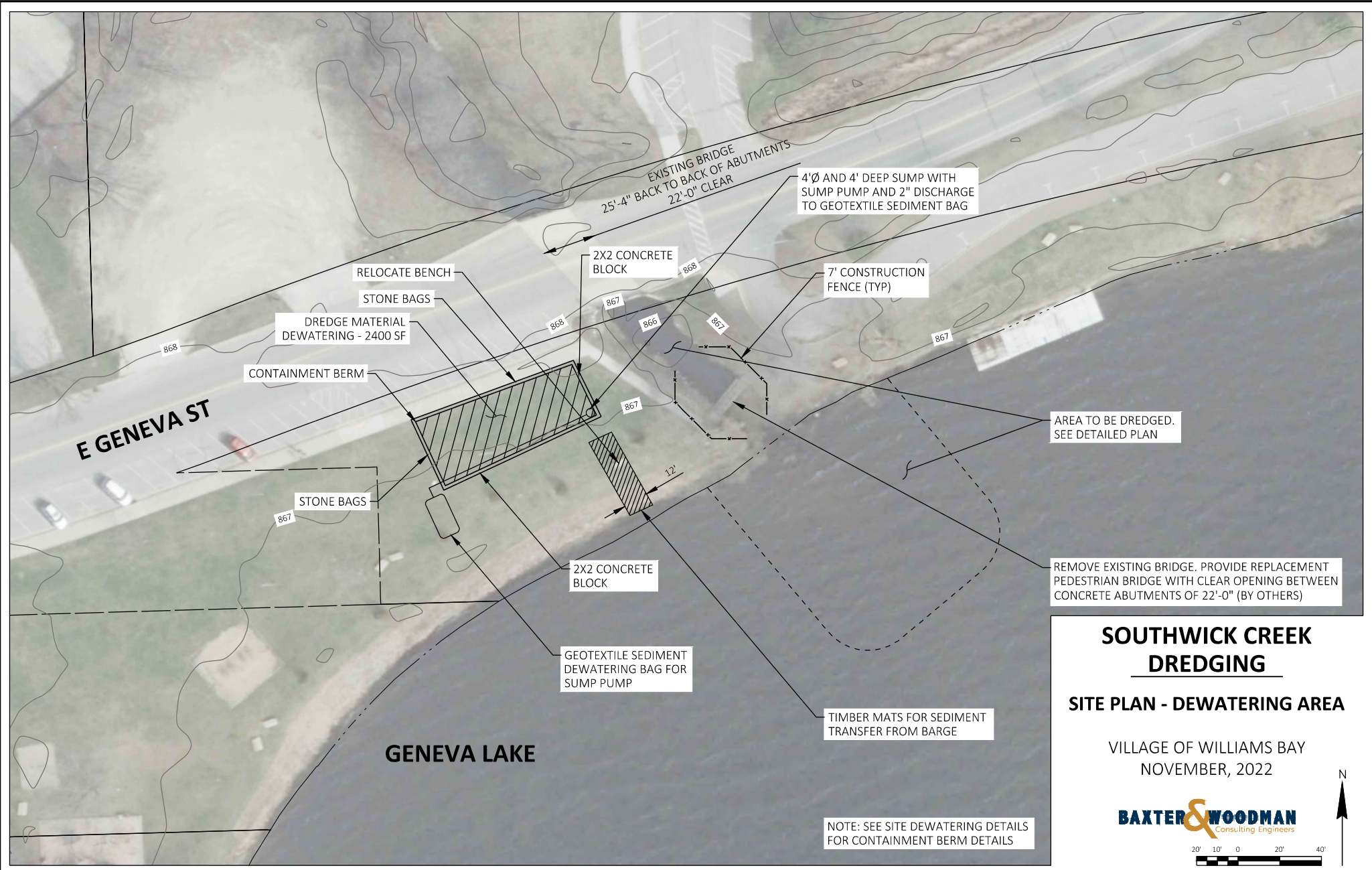
Douglas R. Snyder, P.E.

DRS/drs

Encs.

C/encs.: Brett Biwer, PE
Wayne Edwards, DPW

P:\WLMSP\222379-DREDGING AT SW CREEK\LETTER FOR COMMITTEE 04-06-23.DOC



SOUTHWICK CREEK DREDGING

SITE PLAN - DEWATERING AREA

VILLAGE OF WILLIAMS BAY
NOVEMBER, 2022

BAXTER & WOODMAN
Consulting Engineers



Douglas R. Snyder

From: Masek, Alison M - DNR <alison.masek@wisconsin.gov>
Sent: Wednesday, April 5, 2023 9:26 AM
To: Lothspeich, David A - MUN; Douglas R. Snyder; Debbie Budyak
Cc: USACE_Requests_WI@usace.army.mil; Wilson, Bradley T - DNR; Sigmund, Nicholas
Subject: Williams Bay - Geneva Lake Dredging - Walworth County
Attachments: IP issuance- Dredge_00306.pdf

You don't often get email from alison.masek@wisconsin.gov. [Learn why this is important](#)

***** CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Please see attached for your permit to dredge a portion of Geneva Lake in Walworth County.

Thank you for your willingness to work with the Department to ensure that Wisconsin's waterways are protected for everyone's enjoyment.

Please don't hesitate to let me know if you have any questions.

Thank you,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Alison Masek

Water Management Specialist
Bureau of Waterways/Division of External Services
Wisconsin Department of Natural Resources
1027 W Saint Paul Ave
Milwaukee, WI 53233

Phone: 608-575-9849

Alison.Masek@Wisconsin.gov



dnr.wi.gov



State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1027 W St. Paul Ave.
Milwaukee, WI, 53233

Tony Evers, Governor
Adam N. Payne, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



04/05/2023

Village of Williams Bay
Attn: Becky Tobin
250 Williams Street
William Bay, WI 53191
[sent electronically]

IP-SE-2023-65-00306

RE: Permit #IP-SE-2023-65-00306 to dredge Geneva Lake in the Village of Williams Bay, Walworth County

Dear Mr. Tobin:

The Department of Natural Resources has completed its review of your application for a permit to dredge materials from Geneva Lake located in the SW 1/4, NW 1/4, Section 06, Township 01, Range 17E, in the Village of Williams Bay, Walworth County. You will be pleased to know your application is approved.

I am attaching a copy of your permit, which lists the many important conditions that must be followed to protect water quality and habitat. A copy of the permit must be posted for reference at the project site. **Please read your permit conditions carefully so that you are fully aware of what is expected of you.**

Please note one of the conditions requires that you submit photographs of the completed project within 7 days after you've finished construction. This helps both of us to document the completion of the project and compliance with the permit conditions.

Your next step will be to notify me of the date on which you plan to start construction and again your project is complete.

If you have any questions about your permit, please call me at (608) 575-9849 or you can reach me by email at alison.masek@wisconsin.gov.

Sincerely,

Alison Masek
Water Management Specialist

Email CC:
U.S. Army Corps of Engineers
County/Local Zoning Administrator
DNR Conservation Warden

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

DREDGE PERMIT
IP-SE-2023-65-00306

Application of Becky Tobin is hereby granted under Section 30.20(2), Wisconsin Statutes, a permit to dredge materials from Geneva Lake located in the SW 1/4, NW 1/4, Section 06, Township 01, Range 17E, in the Village of WILLIAMS BAY, Walworth County, subject to the following conditions:

PERMIT

1. You must notify Alison Masek by phone at (608) 575-9849 or by email at alison.masek@wisconsin.gov before starting construction and again not more than 5 days after the project is complete.
2. You must complete the project as described on or before 4/5/2026. If you will not complete the project by this date, you must submit a written request for an extension **prior** to expiration of the initial time limit specified in the permit. Your request must identify the requested extension date. The Department shall extend the time limit for an individual permit or contract for no longer than an additional 5 years if you request the extension before the initial time limit expires. You may not begin or continue construction after the original permit expiration date unless the Department extends the permit in writing or grants a new permit.
3. This permit does not authorize any work other than what you specifically describe in your application and plans, and as modified by the conditions of this permit. If you wish to alter the project or permit conditions, you must first obtain written approval of the Department.
4. Before you start your project, you must first obtain any permit or approval that may be required for your project by local zoning ordinances and/or by the U.S. Army Corps of Engineers. You are responsible for contacting these local and federal authorities to determine if they require permits or approvals for your project. These local and federal authorities are responsible for determining if your project complies with their requirements.
5. Upon reasonable notice, you shall allow access to your project site during reasonable hours to any Department employee who is investigating the project's construction, operation, maintenance, or permit compliance.
6. The Department may modify or revoke this permit for good cause, including if the project is not completed according to the terms of the permit or if the Department determines the activity is detrimental to the public interest.
7. **You must post a copy of this permit at a conspicuous location on the project site**, visible from the waterway, for at least five days prior to construction, and remaining at least five days after construction. You must also have a copy of the permit and approved plan available at the project site at all times until the project is complete.
8. Your acceptance of this permit and efforts to begin work on this project signify that you have read, understood, and agreed to follow all conditions of this permit.
9. You must **submit a series of photographs** to the Department, within one week of completing work on the site. The photographs must be taken from different vantage points and depict all work authorized by this permit.
10. You, your agent, and any involved contractors or consultants may be considered a party to the violation pursuant to Section 30.292, Wis. Stats., for any violations of Chapter 30, Wisconsin Statutes, or this permit.
11. Construction shall be accomplished in such a manner as to minimize erosion and siltation into surface waters. Erosion control measures (such as silt fence and straw bales) must meet or exceed the technical standards of ch. NR 151, Wis. Adm. Code. The technical standards are found at: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
12. All equipment used for the project including but not limited to tracked vehicles, barges, boats, hoses, sheet pile and pumps shall be de-contaminated for invasive and exotic viruses and species prior to use and after use. The following steps

must be taken every time you move your equipment to avoid transporting invasive and exotic viruses and species. To the extent practicable, equipment and gear used on infested waters shall not be used on other non-infested waters.

1. **Inspect and remove** aquatic plants, animals, and mud from your equipment.
2. **Drain all water** from your equipment that comes in contact with infested waters, including but not limited to tracked vehicles, barges, boats, hoses, sheet pile and pumps.
3. **Dispose** of aquatic plants, animals in the trash. Never release or transfer aquatic plants, animals or water from one waterbody to another.
4. **Wash your equipment** with hot (>140° F) and/or high-pressure water,
- OR -
Allow your equipment to **dry thoroughly for 5 days.**

SPECIFIC DREDGING CONDITIONS

13. To minimize adverse impacts on fish movement, fish spawning, and egg incubation periods dredging may not occur during between March 15th through June 15th.

14. Bottom materials must be removed by equipment, which is designed to minimize the amount of sediment that can escape into the water. Equipment must be properly sized so that excavation conforms to the plans submitted.

15. You are required to install a silt curtain in the waterway around your project as shown on the approved plans.

16. You must dredge to the dimensions and elevations shown on your approved plans.

17. You must not deposit or store any of the removed materials in any wetland or below the ordinary high watermark of any waterway. All removed materials must be placed out of the floodway of any stream.

18. A copy of the plans and permit must be provided to every contractor working on the project.

FINDINGS OF FACT

1. Becky Tobin, 250 Willians Street, William Bay, WI 53191, filed an application with this Department on 01/17/2023, under sections 30.20(2) and 30.208, Wisconsin Statutes, to dredge Geneva Lake located in the SW 1/4, NW 1/4, Sec. 06, T. 01, R. 17E, Village of Williams Bay, Walworth County.

2. The applicant proposes to dredge 450 cubic yards. The project is estimated to last 5 days. Prior to the start of work, a turbidity curtain will be deployed around the project area. A floating amphibious excavator will mechanically remove material to place directly into a small barge. An amphibious excavator would be deployed in the water to excavate the sediment and load it onto the barge.

3. The Department has evaluated the project as described in the application and plans.

4. This permit complies with the substantive requirements of s. 23.24, Stats. and NR 109, Adm. Code.

5. Geneva Lake is a navigable water.

6. The proposed project, if constructed in accordance with this permit will not adversely affect water quality, will not increase water pollution in surface waters and will not cause environmental pollution as defined in s. 283.01(6m), Wis. Stats.

7. The proposed project will not impact wetlands if constructed in accordance with this permit.

8. The Department of Natural Resources has determined that the agency's review of the proposed project constitutes an integrated analysis action under s. NR 150.20(2), Wis. Adm. Code. The Department has considered the impacts on the human

environment, alternatives to the proposed projects and has provided opportunities for public disclosure and comment. The Department has completed all procedural requirements of s. 1.11(2)(c), Wis. Stats., and NR 150, Wis. Adm. Code for this project.

9. The Department of Natural Resources and the applicant have completed all procedural requirements and the project as permitted will comply with all applicable requirements of Sections 30.20 and 30.208, Wisconsin Statutes and Chapters NR 102, 103, and 345 of the Wisconsin Administrative Code.

10. The structure or deposit will/will not be detrimental to the public interest because resource managers in fisheries, water quality, Stream biology, and conservation warden review the project and suggested to grant with usual conditions.

11. The activity will not cause environmental pollution as defined in s. 299.01(4).

1. Sediment was sampled, and arsenic was not detected, because the volume is less than 3,000 CY the material is exempt from solid waste disposal requirements.

2. Sediment sampling results showed multiple exceedances of TEC levels for PAHs using the CBSQGs, though none exceed PEC. The applicant will need to confirm if a WPDES permit is needed.

12. No material injury will result to the riparian rights of any riparian owners of real property that abuts any water body that is affected by the activity.

CONCLUSIONS OF LAW

1. The Department has authority under the above indicated Statutes and Administrative Codes to issue a permit for the construction and maintenance of this project.

2. The Department has complied with s. 1.11, Wis. Stats.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions shall be filed. For judicial review of a decision pursuant to sections 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review shall name the Department of Natural Resources as the respondent.

To request a contested case hearing of any individual permit decision pursuant to section 30.209, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources, P.O. Box 7921, Madison, WI, 53707-7921. The petition shall be in writing, shall be dated and signed by the petitioner, and shall include as an attachment a copy of the decision for which administrative review is sought. If you are not the applicant, you must simultaneously provide a copy of the petition to the applicant. If you wish to request a stay of the project, you must provide information, as outlined below, to show that a stay is necessary to prevent significant adverse impacts or irreversible harm to the environment. If you are not the permit applicant, you must provide a copy of the petition to the permit applicant at the same time that you serve the petition on the Department.

The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

A request for contested case hearing must meet the requirements of section 30.209, Wis. Stats., and sections NR 2.03, 2.05, and 310.18, Wis. Admin. Code, and if the petitioner is not the applicant the petition must include the following information:

1. A description of the objection that is sufficiently specific to allow the department to determine which provisions of this section may be violated if the proposed permit or contract is allowed to proceed.

2. A description of the facts supporting the petition that is sufficiently specific to determine how the petitioner believes the project, as proposed, may result in a violation of Chapter 30, Wis. Stats.

3. A commitment by the petitioner to appear at the administrative hearing and present information supporting the petitioner's objection.

If the petition contains a request for a stay of the project, the petition must also include information showing that a stay is necessary to prevent significant adverse impacts or irreversible harm to the environment.

Dated at the Southeast Region Headquarters, Wisconsin on 04/05/2023.

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES
For the Secretary

By:



Alison Masek

Water Management Specialist

Douglas R. Snyder

From: Douglas R. Snyder
Sent: Tuesday, April 4, 2023 6:37 AM
To: Becky Tobin
Cc: Wayne Edwards
Subject: Southwick Creek - dredging project

Hi Dave,

See below. My guess is that this should go to parks and lakefront and then to finance if the Board has the appetite for this project. The \$85,000 number appears a little low to me—we should plan on \$150,000 for a project cost assuming that we have the contractor do the hauling to the Odling pit. We should bid it in the next two months so construction can start in October of 2023. We can take a bid for the hauling to Odling and Wayne can decide whether he has the forces after he sees the number.

I don't believe there was money in the borrowing for this, but they may try to use the \$500,000 set aside for Southwick Creek.

I will update the engineer's report on Friday.

Let me know if you have questions. May I get you a work order to bid this and administer the contracts?

Doug

From: Debbie Budyak <dbudyak@ilmenvironments.com>
Sent: Tuesday, April 4, 2023 6:04 AM
To: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Subject: RE: Southwick Creek - dredging project

*** **CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Good morning, Doug,

We received confirmation yesterday that the permit should be issued this week.

Please see below for our project estimate and brief scope. If you have questions or would like to see something different, just let me know.

- Project Estimate = \$85,000
- Material Haul off to Odling = \$15,000
- Scope: Mechanical removal of sediment from dredge area (50ft x 160ft) via amphibious excavator (1.10 psi or less). Removed material to be stockpiled and contained with stone. Requires installation of turbidity curtain around dredge area and silt fence around stockpile area.

Thank you!

Debbie

Debbie Budyak
Director of Client Services, ILM
Direct: (224) 480-4098

From: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Sent: Monday, March 20, 2023 8:27 AM
To: Debbie Budyak <dbudyak@ilmenvironments.com>
Subject: RE: Southwick Creek - dredging project

Yes – separate line item and possibly done by the Village if they have time.

I would like a scope (brief – just enough so your competitors also have to do it correctly-- and estimate before bid.

From: Debbie Budyak <dbudyak@ilmenvironments.com>
Sent: Monday, March 20, 2023 8:22 AM
To: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Subject: RE: Southwick Creek - dredging project

*** **CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Thanks for the quick response. Should we add haul off as a separate line item?

Also, do you want an official proposal for review before bidding, or just confirmation of the estimate?

Thanks, again!

Debbie

Debbie Budyak
Director of Client Services, ILM
Direct: (224) 480-4098

From: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Sent: Monday, March 20, 2023 8:15 AM
To: Debbie Budyak <dbudyak@ilmenvironments.com>
Subject: RE: Southwick Creek - dredging project

No issues with that---you have until the ice is on.

I am guessing that we will end up bidding it; I would like to tailor the bid documents to your scope. Odling will take the material for free; we still need to find a way to get it there once it is dewatered.

From: Debbie Budyak <dbudyak@ilmenvironments.com>
Sent: Monday, March 20, 2023 8:12 AM
To: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Subject: Southwick Creek - dredging project

***** CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Hi Doug,

I wanted to confirm receipt of your voicemail regarding the dredge project. We hope to have the permit very soon.

In the meantime, I will work with the team to firm up a proposal for the project. I did want to confirm timing. You mentioned just after Labor Day in your voicemail – correct? We do have a project already scheduled in September that cannot be adjusted due to wildlife impacts. If ILM is selected to complete the work, October would be the soonest we could do the work. Would there be any issues with that?

Thank you!

Debbie

Debbie Budyak
Director of Client Services



110 Le Baron Street, Waukegan, IL 60085

Office: (847) 244-6662 | Direct: (224) 480-4098

dbudyak@ilmenvironments.com | ilmenvironments.com



**VILLAGE OF WILLIAMS BAY, WISCONSIN
GENEVA LAKE DREDGING AT SOUTHWICK CREEK
DESIGN AND CONSTRUCTION ENGINEERING SERVICES
WORK ORDER**

ENGINEERS' PROJECT NO. 0222379.00

Project Description:

The Owner obtained an individual permit from the Wisconsin Department of Natural Resources on April 5, 2023 to dredge the outlet of Southwick Creek at Geneva Lake. The dredging would occur in October 2023. The dewatered material will be transported to the Odling pit in the Town of Delavan.

Engineering Services:

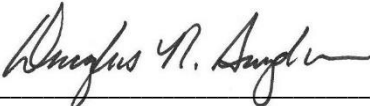
Specific Engineering services are described in the Master Engineering Services Agreement between the Owner and Engineers dated October 16, 2017. A detailed scope of services for this Project is listed in Attachment A of this Work Order. Manpower requirements and a fee summary are listed in Attachment B.

Compensation:

Compensation for the services will be in accordance with the Master Engineering Services Agreement dated October 16, 2017. The Owner shall pay the Engineer for the services performed or furnished under Attachment A, based upon the Engineer's standard hourly billing rates included in Attachment B for actual work time performed plus reimbursement of out-of-pocket expenses including travel, which in total will not exceed **\$11,100**.

Submitted by: **Baxter & Woodman, Inc.**

By: _____



Douglas R. Snyder, P.E.

Title: Vice President

Date: April 5, 2023

Approved: **Village of Williams Bay, WI**

By: _____

William B. Duncan

Title: President

Date: _____

Attest: _____

Tina Kolls, Clerk

Additional Comments: None.

Project Description

The Owner obtained an individual permit from the Wisconsin Department of Natural Resources on April 5, 2023 to dredge the outlet of Southwick Creek at Geneva Lake. The dredging would occur in October 2023. The dewatered material will be transported to the Odling pit in the Town of Delavan.

Scope of Services - Design

The following scope of services details the anticipated tasks necessary to successfully complete this Project:

1. PROJECT MANAGEMENT - Plan, schedule, and control the activities that must be performed to complete the Project. These activities include, but are not limited to, budget, schedule, and scope. Confer with Owner staff and project team to ensure the goals of the Project are achieved. Attend up to two meetings.
2. SITE VISITS - Conduct site visits by designers to determine scope requirements.
3. PRELIMINARY AND FINAL DESIGN – Prepare Design Documents consisting of drawings showing the general scope, extent, and character of construction work to be furnished and performed by the Contractors selected by the Owner.
4. BIDDING DOCUMENTS - Prepare for review and approval by the Owner and its legal counsel the forms of Construction Contract Documents consisting of Advertisement for Bids, Bidder Instructions, Bid Form, Agreement, Performance Bond Form, Payment Bond Form, General Conditions, and Supplementary Conditions and specifications, where appropriate, based upon documents prepared by the Engineers Joint Contract Document Committee (EJCDC).
5. QUALITY CONTROL REVIEWS - Conduct peer review and constructability review of the Design Documents.
6. ENGINEERS' OPINION OF PROBABLE COST - Prepare an opinion of the probable construction cost prior to the bid opening.
7. ASSIST BIDDING - Provide documents for bidding and assist the Owner in solicitation of bids from as many qualified bidders as possible, attend the bid opening, evaluate, and tabulate the bids received, and prepare a recommendation letter to the Owner for their action.

Scope of Services - Construction

The following scope of services details the anticipated tasks necessary to successfully complete this Project:

1. Act as the Owner's representative with duties, responsibilities, and limitations of authority as assigned in the construction contract documents.
2. CONSTRUCTION ADMINISTRATION
 - A. Prepare Award Letter, Agreement, Contract Documents, Performance/Payment Bonds, and Notice to Proceed. Receive Contractor insurance documents.
 - B. Attend and prepare minutes for the preconstruction conference and review the Contractor's proposed construction schedule and list of subcontractors.
 - C. Attend periodic construction progress meetings.
 - D. Shop drawing and submittal review by Engineer shall apply only to the items in the submissions and only for the purpose of assessing, if upon installation or incorporation in the Project, they are generally consistent with the construction documents. Owner agrees that the contractor is solely responsible for the submissions (regardless of the format in which provided, i.e., hard copy or electronic transmission) and for compliance with the contract documents. Owner further agrees that the Engineer's review and action in relation to these submissions shall not constitute the provision of means, methods, techniques, sequencing or procedures of construction or extend to safety programs or precautions. Engineer's consideration of a component does not constitute acceptance of the assembled item.
 - E. Review construction record drawings for completeness prior to submission to CADD.
 - F. Prepare construction contract change orders and work directives when authorized by the Owner.
 - G. Review the Contractor's requests for payments as construction work progresses and advise the Owner of amounts due and payable to the Contractor in accordance with the terms of the construction contract documents.
 - H. Research and prepare written response by Engineer to request for information from the Owner and Contractor.
 - I. Project manager or other office staff visit site as needed.

3. FIELD OBSERVATION – Part Time

- A. Engineer will provide a Resident Project Representative at the construction site on a periodic part-time basis from the Engineer' office of not more than eight (8) hours per regular weekday, not including legal holidays as deemed necessary by the Engineer, to assist the Contractor with interpretation of the Drawings and Specifications, to observe in general if the Contractor's work is in conformity with the Final Design Documents, and to monitor the Contractor's progress as related to the Construction Contract date of completion.
- B. Through standard, reasonable means, Engineer will become generally familiar with observable completed work. If the Engineer observes completed work that is inconsistent with the construction documents, that information shall be communicated to the contractor and Owner to address. Engineer shall not supervise, direct, control, or have charge or authority over any contractor's work, nor shall the Engineer have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any contractor, or the safety precautions and programs incident thereto, for security or safety at the site, nor for any failure of any contractor to comply with laws and regulations applicable to such contractor's furnishing and performing of its work. Engineer neither guarantees the performance of any contractor nor assumes responsibility for any contractor's failure to furnish and perform the work in accordance with the contract documents, which contractor is solely responsible for its errors, omissions, and failure to carry out the work. Engineer shall not be responsible for the acts or omissions of any contractor, subcontractor, or supplier, or of any of their agents or employees or any other person, (except Engineer's own agents, employees, and consultants) at the site or otherwise furnishing or performing any work; or for any decision made regarding the contract documents, or any application, interpretation, or clarification, of the contract documents, other than those made by the Engineer.
- C. Part-Time Field Observation provides that the Resident Project Representative will make intermittent site visits to observe the progress and quality of Contractor's executed Work. Part-Time Field Observation does not guarantee the Engineer will observe or comment on work completed by the contractor at times the Resident Project Representative is not present on site. Such visits and observations by the Resident Project Representative, if any, are not intended to be exhaustive or to extend to every aspect of Contractor's Work in progress or to involve detailed inspections of Contractor's Work in progress beyond the responsibilities specifically assigned to Engineer in this Agreement and the Contract Documents, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the Work based on Engineer's exercise of professional judgment as assisted by the Resident Project Representative, if any.

-
- D. Provide the necessary base lines, benchmarks, and reference points to enable the Contractor to proceed with the work.
 - E. Keep a daily record of the Contractor's work on those days that the Engineers are at the construction site including notations on the nature and cost of any extra work and provide weekly reports to the Owner of the construction progress and working days charged against the Contractor's time for completion.
4. SUBSTANTIAL COMPLETION OF PROJECT
- A. Provide construction inspection services when notified by the Contractor that the Project is substantially complete. Prepare written punch lists during substantial completion inspections.
 - B. Prepare Certificate of Substantial Completion.
5. COMPLETION OF PROJECT
- A. Provide construction inspection services when notified by the Contractor that the Project is complete. Prepare written punch lists during final completion inspections.
 - B. Review the Contractor's written guarantees and issue a Notice of Acceptability for the Project by the Owner.
 - C. Review the Contractor's requests for final payment and advise the Owner of the amounts due and payable to the Contractor in accordance with the terms of the construction contract documents.
 - D. Prepare construction record drawings which show field measured dimensions of the completed work which the Engineers consider significant and provide the Owner with an electronic copy within ninety (90) days of the Project completion.

P:\WLMSV\222379-Dredging at SW Creek\Contracts\Work Order 222379.00.docx

Village of Williams Bay						
Plan Number: 222379.00						
Plan Name: WLMSV - Geneva Lake Dredging at Southwick Creek						
Level	Emp	Planned Hrs	Planned Labor Bill	Compensation Fee	Reimb Allowance	Total Compensation
Overall Project Total		60.00	10,447.15	10,600.00	500.00	11,100.00
GM700 Plan Preparation		30.00	4,544.35	4,600.00	0.00	4,600.00
Julie Crayton		2.00	180.00			
Jordan Sharpe		16.00	1,509.40			
Douglas Snyder		12.00	2,854.95			
GM750 Bidding and Award		8.00	1,260.00	1,300.00	100.00	1,400.00
Julie Crayton		4.00	360.00			
Douglas Snyder		4.00	900.00			
GM790 Construction Admin and Site Visits		22.00	4,642.80	4,700.00	400.00	5,100.00
Julie Crayton		4.00	360.00			
Douglas Snyder		18.00	4,282.80			



VILLAGE OF WILLIAMS BAY

250 Williams Street | PO Box 580 | Williams Bay | WI | 53191 | williamsbay.org
Phone: 262-245-2700

UNOFFICIAL MINUTES FINANCE AND PERSONNEL COMMITTEE WEDNESDAY, MARCH 15, 2023, AT 6:30 PM VILLAGE HALL COUNCIL ROOM

Call to Order

Meeting was called to order by Chairman Wright at 8:33pm

Roll Call

Trustees Wright, D'Alessandro, and Umans

Also Present: President Duncan, Trustees Jaramillo, Stanek and Vlach, Interim Administrator Bretl, Treasurer Peternell, Director of Public Works Edwards, Police Chief Timm, Recreation Director Rowland, Harbormaster Blincoe and Engineer Snyder.

Meeting Minutes

D'Alessandro/Umans motion to approve meeting minutes of February 15, 2023, Joint Parks & Lakefront Committee and Finance & Personnel Committee meeting minutes of February 20, 2023, and meeting minutes of March 6, 2023, with corrections. Unanimously carried.

Add David Lothspeich and remove Catherine Tobin as authorized signer for First National Bank & Trust and Advia Credit Union

D'Alessandro/Umans motion to recommend Village Board approval of adding David Lothspeich and remove Catherine Tobin as authorized signer for First National Bank & Trust and Advia Credit Union. Unanimously carried.

IT Services Contract Renewal

The Committee reviewed the IT Services contract renewal with Velocity Solutions for a 1-year term ending December 31, 2024. Wright/D'Alessandro motion to recommend Village Board approval to renew the IT services contract with Velocity Solutions. Unanimously carried.

Assessment Services RFP

The Committee reviewed the proposed assessment services RFP. Peternell stated that Associated Appraisal's contract is expiring on December 31, 2023, and is requesting the F&P Committee recommend VB approval seeking proposals for assessment services. Wright/Umans motion to recommend Village Board approval of assessment services RFP. Unanimously carried.

Village Hall Server

The Committee reviewed the proposal from SHI to upgrade the Village Hall server in the amount of \$4901.59. Peternell stated that this item was included in the borrowing as part of the computer upgrades for a total of \$20,000. To date, we have spent \$10,275. Umans/D'Alessandro motion to recommend Village Board approval to upgrade the Village Hall server in the amount of \$4,901.59. Unanimously carried.

Baywood Heights Subdivision Entrance sign on Theatre Road

The Committee reviewed (2) proposals to replace the entrance sign to Baywood Heights. Wright/D'Alessandro motion to recommend Village Board approval of Brushfire Signs proposal in the amount of \$2660 to be paid from contingency funds. Unanimously carried.

Boat Cleaning Station Funding

Since the P&L Committee recommended declining the donation of the unit from Geneva Lake Conservancy, no action was taken.

Clean Boat Grant

Umans/D'Alessandro motion to recommend Village Board approval of accepting the clean boat grant in the amount of \$2400 from the Geneva Lake Environmental Agency. Unanimously carried.

Treasurer Report

The Committee reviewed the Treasurer's report on February activities.

Monthly activity of Borrowing projects

The Committee reviewed the to date spending of the borrowed funds.

Identifying and approving matching funds for the disaster assistance program

It was the consensus of the Committee to determine what costs would be eligible for reimbursement and then determine a funding source.

Replacement of certain portions of sidewalk on Highway 67

Wright/Umans motion to recommend Village Board approval to replace portions of sidewalk on Highway 67 not to exceed \$6,500 and include in borrowed funds from Hwy 67 construction costs. Unanimously carried.

Adjourn

Umans/D'Alessandro motion to adjourn at 9:02pm. Unanimously carried.

/s/ Lori Peternell, Village Treasurer

These are not official minutes until approved by the Finance & Personnel Committee

MUNICIPAL BUSINESS LEASE

SECTION I. Date, Contracting Parties, Description of Property and Term of the Lease.

1. This lease is made this _____ day of _____, 2023, between The Village of Williams Bay, Wisconsin, herein called the Municipality, and Yoga Lake Geneva, LLC herein called the Renter.

2. The Municipality, in consideration of the agreements with the Renter herein set forth, hereby leases to the Renter, to occupy the Williams Bay beach (west of the beach house) from 7:00 a.m.- 8:15 a.m. on Saturdays and Sundays between Memorial Day weekend and Labor Day weekend. Classes will also be offered on Memorial Day, July 4th, and Labor Day at 7:00 a.m.

3. This lease shall be for the following specified period: effective upon execution of this contract and shall continue in force through Labor Day 2023. There shall be no automatic renewal of this agreement.

SECTION II. Rental Payments.

1. Amount of Rent: The monthly rental payment owed by the Renter shall be \$1.00 per student, per class. That amount shall be calculated from the start of this lease through Labor Day 2023. The Renter shall provide verification of the gross sales to the Municipality along with their payment.

2. Time of Payment: Renter shall pay the Municipality no later than September 30, 2023. This will be a lump-sum payment for the entire season and length of the contract.

3. Overdue rental payments shall bear interest at the rate of 10% per annum.

SECTION III. The Renter Agrees as Follows:

1. It is the responsibility of the Renter to obtain and hold all necessary licenses and permits from the State of Wisconsin and Department of Agriculture, Trade & Consumer Protection, and to comply with all requirements of said licenses and permits and provide copies of the same to Village Administrator.

2. Renter agrees to not interfere with beach cleaning operations by Village Staff.

3. Premises herein leased and every part thereof, during said term, shall be used only for the lawful business purposes of the Renter.

4. Renter shall not alter or redecorate said premises without prior written consent of Municipality. Renter agrees to maintain the area in a neat, clean, and orderly manner.

5. Renter agrees to pay all reasonable costs, attorneys' fees, and expenses that shall be paid or incurred by Municipality in enforcing this lease.

6. Renter agrees not to assign this lease or sublease the premises without the consent of the Municipality.

7. Renter agrees to indemnify and hold harmless the Municipality from any and all liability, loss, or damage the Municipality may suffer as a result of claims, demands, costs, or judgments against it arising from the Renter's activities with this agreement. All yoga instructors shall supply the Municipality with a certificate of insurance naming the Village of Williams Bay an additional insured.

8. Yoga Lake Geneva, LLC and Frank Whiting agree to personally guarantee the debts from Section II only of the Renter for this agreement.

SECTION IV. Termination of Agreement:

1. Failure on the part of either party to perform any of the terms, covenants, or conditions covered by this agreement, shall constitute grounds for termination thereof, at the option of the other party.

SECTION V. Signatures:

RENTER:

Frank Whiting, Yoga Lake Geneva, LLC

Approved by Village Board of the Village of Williams Bay this _____ day of _____, 2023.

MUNICIPALITY:
VILLAGE OF WILLIAMS BAY

William B. Duncan, President

ATTEST:

Tina Kolls, Clerk

MUNICIPAL BUSINESS LEASE

SECTION I. Date, Contracting Parties, Description of Property and Term of the Lease.

1. This lease is made this _____ day of _____, 2023, between The Village of Williams Bay, Wisconsin, herein called the Municipality, and Dip in the Bay, LLC herein called the Renter.

2. The Municipality, in consideration of the agreements with the Renter herein set forth, hereby leases to the Renter, to occupy a stationary cart to sell food and non-food items such as t-shirts, souvenirs, and sundries, and to use for business purposes only, the municipal land described as follows: Three possible Lakefront area locations as determined from time to time by the Municipality: in front of the beach house entrance (1), east of the beach house in front of the gate (2) and on the east side of the beach house under the roof (3) (see attachment) and 105 N. Walworth Street.

3. This lease shall be for the following specified period: effective upon execution of this contract and shall continue in force until October 31, 2023. There shall be no automatic renewal of this agreement.

SECTION II. Rental Payments.

1. Amount of Rent: The monthly rental payment owed by the Renter shall be 3% of the Renter's gross sales for the payment period at any of the three listed locations. That amount shall be calculated from the start of this lease to the date the first payment due, and subsequently the intervals between payment due dates. The Renter shall provide verification of the gross sales to the Municipality.

2. Time of Payment: The monthly cash rent for this business to be paid by the Renter to the Municipality is to be paid on the 1st day of each month, or the closest Monday thereafter if said due date occurs on a Saturday or Sunday. The first payment shall be due July 5, 2023, and monthly thereafter with the last payment being due November 15, 2023.

3. Overdue rental payments shall bear interest at the rate of 10% per annum.

SECTION IV. The Renter Agrees as Follows:

1. It is the responsibility of the Renter to obtain and hold all necessary licenses and permits from the State of Wisconsin and Department of Agriculture, Trade & Consumer Protection, and to comply with all requirements of said licenses and permits and provide copies of the same to Village Administrator.
2. Renter agrees to not interfere or operate Renter's business on days and during the hours when food and beverages are being sold at municipally- sanctioned events at Lakefront Park. This provision may be waived if the organization holding the event consents in writing to renter operating its business during an event.
3. Premises herein leased and every part thereof, during said term, shall be used only for the lawful business purposes of the Renter.
4. Renter shall not alter or redecorate said premises without prior written consent of Municipality. Renter agrees to maintain the area in a neat, clean, and orderly manner.
5. Renter agrees to pay all reasonable costs, attorneys' fees, and expenses that shall be paid or incurred by Municipality in enforcing this lease.
6. Renter agrees not to assign this lease or sublease the premises without the consent of the Municipality.
7. Renter agrees to indemnify and hold harmless the Municipality from any and all liability, loss, or damage the Municipality may suffer as a result of claims, demands, costs, or judgments against it arising from the Renter's activities with this agreement.
8. Dip In The Bay, LLC and John Dwyer agree to personally guarantee the debts from Section II only of the Renter for this agreement.
9. Signage will only be allowed on renter's equipment.
10. Renter agrees to only use residential parking spot for loading and unloading of equipment.

SECTION V. Termination of Agreement:

1. Failure on the part of either party to perform any of the terms, covenants, or conditions covered by this agreement, shall constitute grounds for termination thereof, at the option of the other party.

SECTION VI. Signatures:

RENTER:

Michael Condron, Member, Dip in the Bay, LLC

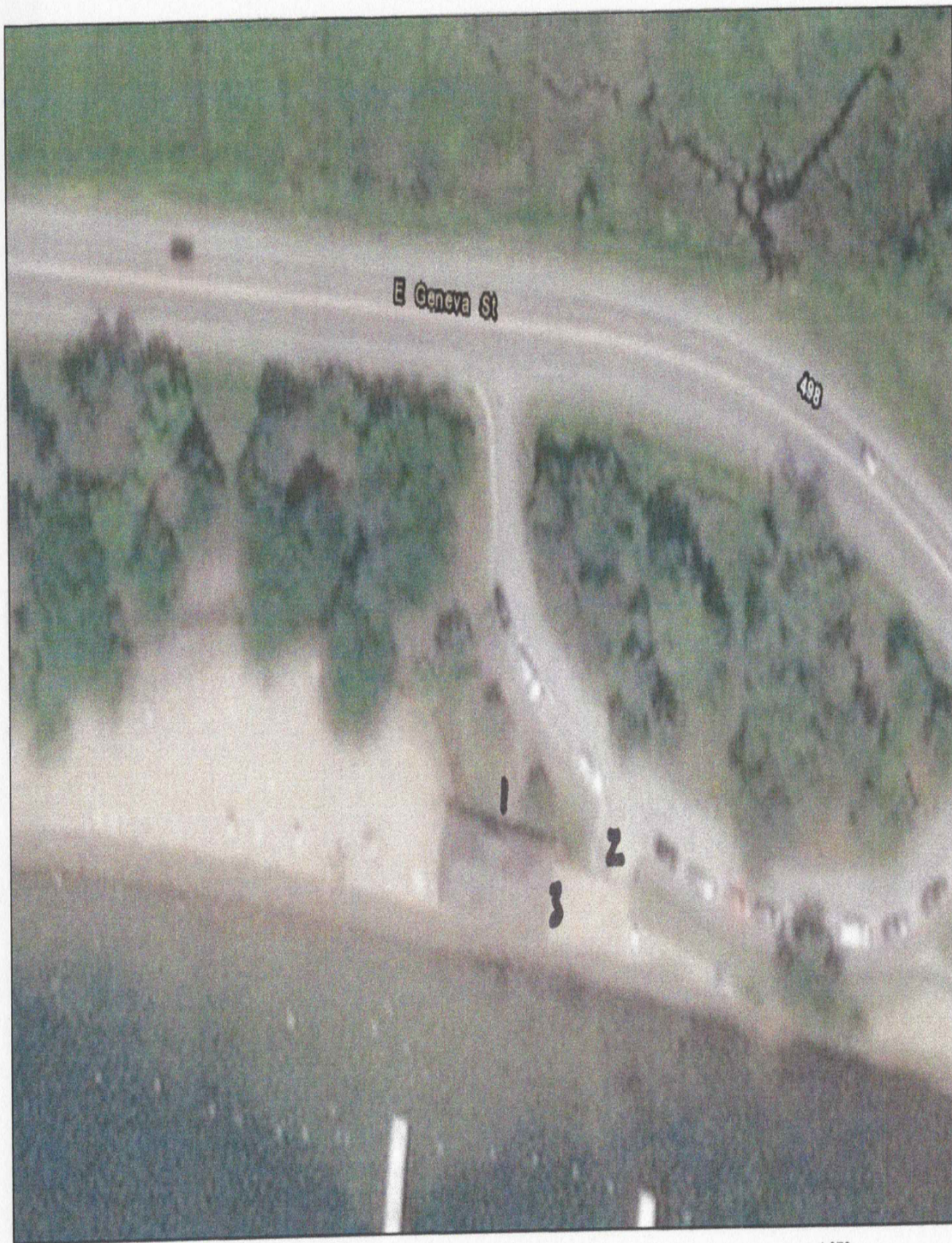
John Dwyer

Approved by Village Board of the Village of Williams Bay this _____ day of
_____, 2023.

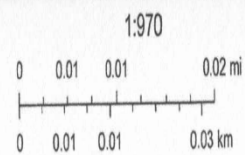
MUNICIPALITY:
VILLAGE OF WILLIAMS BAY

William B. Duncan, President
ATTEST:

Tina Kolls, Clerk



5/15/2020



Esri, HERE, Garmin, (c) OpenStreetMap contributors, Source: Esri

April 6, 2023

David Lothspeich, Administrator
Village of Williams Bay
250 Williams Street
Williams Bay, WI 53191

Subject: Dredging of Geneva Lake at Southwick Creek

Dear Mr. Lothspeich,

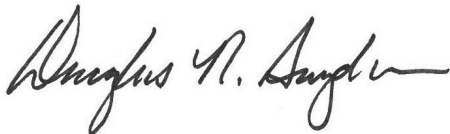
Attached is the individual permit for the dredging of Geneva Lake at Southwick Creek; Integrated Lakes Management (ILM) assisted the Village with this permit. This should be the only permit you need for this site in the future. Also attached is a three-page email dated April 4, 2023, with the history, estimate cost, and the next steps. The current estimate for this project is \$150,000 with approximately \$15,000 associated with the transport of the spoils from the lakeshore to the Odling Pit. This project is more than \$25,000 and could be considered public construction.

If the Village decides to move forward with this project, we recommend that the Village allow us to prepare a bid package to obtain costs for both the dredging and the removal of the spoil materials. The project could bid as early as June of 2023 and with construction occurring after October 1, 2023. Enclosed is an engineering work order for the bid package preparation and the contract administration.

Please call if you have any questions.

Sincerely,

BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS



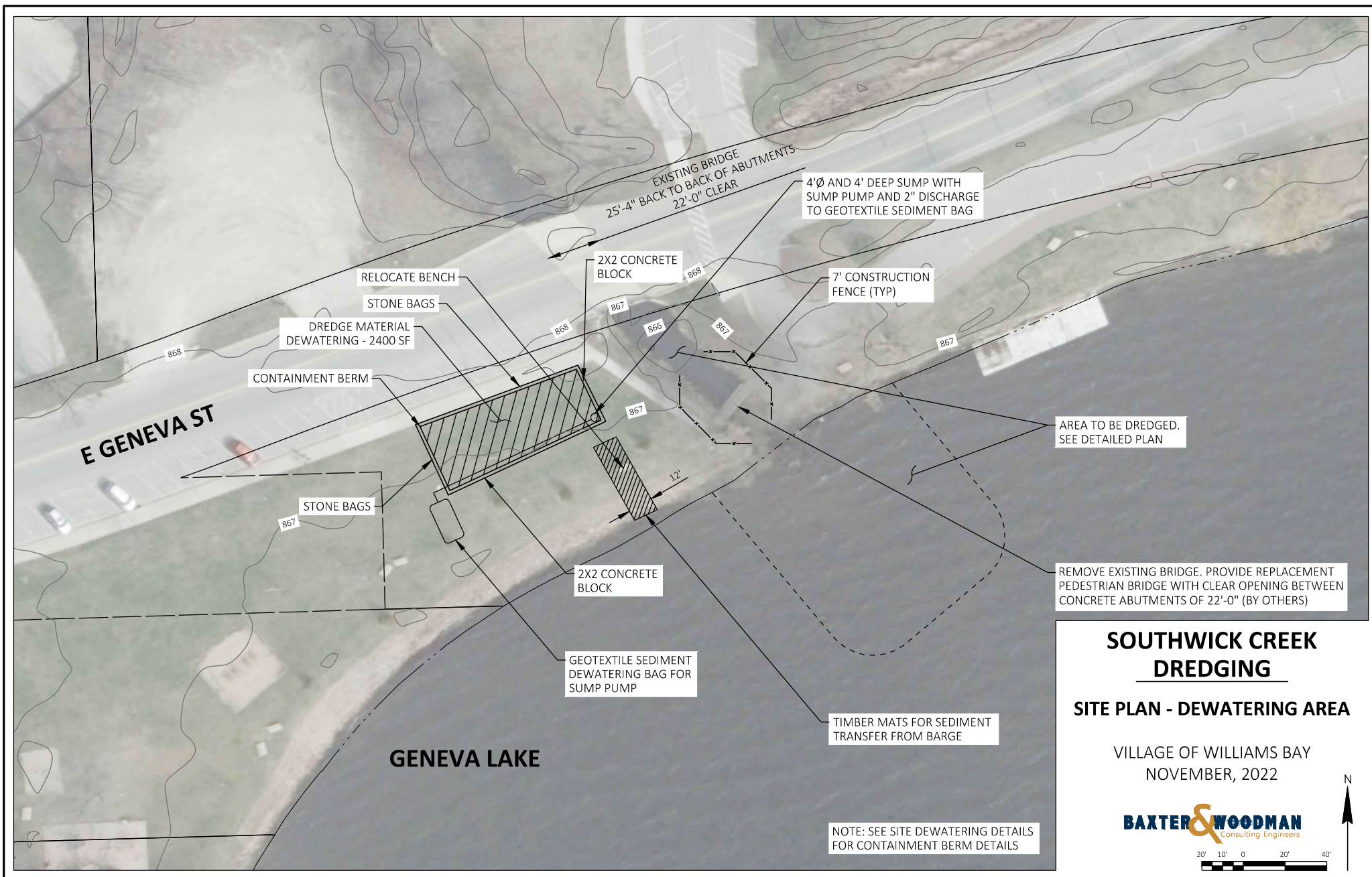
Douglas R. Snyder, P.E.

DRS/drs

Encs.

C/encs.: Brett Biwer, PE
Wayne Edwards, DPW

P:\WLMSP\222379-DREDGING AT SW CREEK\LETTER FOR COMMITTEE 04-06-23.DOC



Douglas R. Snyder

From: Masek, Alison M - DNR <alison.masek@wisconsin.gov>
Sent: Wednesday, April 5, 2023 9:26 AM
To: Lothspeich, David A - MUN; Douglas R. Snyder; Debbie Budyak
Cc: USACE_Requests_WI@usace.army.mil; Wilson, Bradley T - DNR; Sigmund, Nicholas
Subject: Williams Bay - Geneva Lake Dredging - Walworth County
Attachments: IP issuance- Dredge_00306.pdf

You don't often get email from alison.masek@wisconsin.gov. [Learn why this is important](#)

***** CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Please see attached for your permit to dredge a portion of Geneva Lake in Walworth County.

Thank you for your willingness to work with the Department to ensure that Wisconsin's waterways are protected for everyone's enjoyment.

Please don't hesitate to let me know if you have any questions.

Thank you,

We are committed to service excellence.

Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Alison Masek

Water Management Specialist
Bureau of Waterways/Division of External Services
Wisconsin Department of Natural Resources
1027 W Saint Paul Ave
Milwaukee, WI 53233

Phone: 608-575-9849

Alison.Masek@Wisconsin.gov



dnr.wi.gov



State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1027 W St. Paul Ave.
Milwaukee, WI, 53233

Tony Evers, Governor
Adam N. Payne, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711



04/05/2023

Village of Williams Bay
Attn: Becky Tobin
250 Williams Street
William Bay, WI 53191
[sent electronically]

IP-SE-2023-65-00306

RE: Permit #IP-SE-2023-65-00306 to dredge Geneva Lake in the Village of Williams Bay, Walworth County

Dear Mr. Tobin:

The Department of Natural Resources has completed its review of your application for a permit to dredge materials from Geneva Lake located in the SW 1/4, NW 1/4, Section 06, Township 01, Range 17E, in the Village of Williams Bay, Walworth County. You will be pleased to know your application is approved.

I am attaching a copy of your permit, which lists the many important conditions that must be followed to protect water quality and habitat. A copy of the permit must be posted for reference at the project site. **Please read your permit conditions carefully so that you are fully aware of what is expected of you.**

Please note one of the conditions requires that you submit photographs of the completed project within 7 days after you've finished construction. This helps both of us to document the completion of the project and compliance with the permit conditions.

Your next step will be to notify me of the date on which you plan to start construction and again your project is complete.

If you have any questions about your permit, please call me at (608) 575-9849 or you can reach me by email at alison.masek@wisconsin.gov.

Sincerely,

Alison Masek
Water Management Specialist

Email CC:
U.S. Army Corps of Engineers
County/Local Zoning Administrator
DNR Conservation Warden

STATE OF WISCONSIN
DEPARTMENT OF NATURAL RESOURCES

DREDGE PERMIT
IP-SE-2023-65-00306

Application of Becky Tobin is hereby granted under Section 30.20(2), Wisconsin Statutes, a permit to dredge materials from Geneva Lake located in the SW 1/4, NW 1/4, Section 06, Township 01, Range 17E, in the Village of WILLIAMS BAY, Walworth County, subject to the following conditions:

PERMIT

1. You must notify Alison Masek by phone at (608) 575-9849 or by email at alison.masek@wisconsin.gov before starting construction and again not more than 5 days after the project is complete.
2. You must complete the project as described on or before 4/5/2026. If you will not complete the project by this date, you must submit a written request for an extension **prior** to expiration of the initial time limit specified in the permit. Your request must identify the requested extension date. The Department shall extend the time limit for an individual permit or contract for no longer than an additional 5 years if you request the extension before the initial time limit expires. You may not begin or continue construction after the original permit expiration date unless the Department extends the permit in writing or grants a new permit.
3. This permit does not authorize any work other than what you specifically describe in your application and plans, and as modified by the conditions of this permit. If you wish to alter the project or permit conditions, you must first obtain written approval of the Department.
4. Before you start your project, you must first obtain any permit or approval that may be required for your project by local zoning ordinances and/or by the U.S. Army Corps of Engineers. You are responsible for contacting these local and federal authorities to determine if they require permits or approvals for your project. These local and federal authorities are responsible for determining if your project complies with their requirements.
5. Upon reasonable notice, you shall allow access to your project site during reasonable hours to any Department employee who is investigating the project's construction, operation, maintenance, or permit compliance.
6. The Department may modify or revoke this permit for good cause, including if the project is not completed according to the terms of the permit or if the Department determines the activity is detrimental to the public interest.
7. **You must post a copy of this permit at a conspicuous location on the project site**, visible from the waterway, for at least five days prior to construction, and remaining at least five days after construction. You must also have a copy of the permit and approved plan available at the project site at all times until the project is complete.
8. Your acceptance of this permit and efforts to begin work on this project signify that you have read, understood, and agreed to follow all conditions of this permit.
9. You must **submit a series of photographs** to the Department, within one week of completing work on the site. The photographs must be taken from different vantage points and depict all work authorized by this permit.
10. You, your agent, and any involved contractors or consultants may be considered a party to the violation pursuant to Section 30.292, Wis. Stats., for any violations of Chapter 30, Wisconsin Statutes, or this permit.
11. Construction shall be accomplished in such a manner as to minimize erosion and siltation into surface waters. Erosion control measures (such as silt fence and straw bales) must meet or exceed the technical standards of ch. NR 151, Wis. Adm. Code. The technical standards are found at: http://dnr.wi.gov/topic/stormwater/standards/const_standards.html.
12. All equipment used for the project including but not limited to tracked vehicles, barges, boats, hoses, sheet pile and pumps shall be de-contaminated for invasive and exotic viruses and species prior to use and after use. The following steps

must be taken every time you move your equipment to avoid transporting invasive and exotic viruses and species. To the extent practicable, equipment and gear used on infested waters shall not be used on other non-infested waters.

1. **Inspect and remove** aquatic plants, animals, and mud from your equipment.
2. **Drain all water** from your equipment that comes in contact with infested waters, including but not limited to tracked vehicles, barges, boats, hoses, sheet pile and pumps.
3. **Dispose** of aquatic plants, animals in the trash. Never release or transfer aquatic plants, animals or water from one waterbody to another.
4. **Wash your equipment** with hot (>140° F) and/or high-pressure water,
- OR -
Allow your equipment to **dry thoroughly for 5 days.**

SPECIFIC DREDGING CONDITIONS

13. To minimize adverse impacts on fish movement, fish spawning, and egg incubation periods dredging may not occur during between March 15th through June 15th.

14. Bottom materials must be removed by equipment, which is designed to minimize the amount of sediment that can escape into the water. Equipment must be properly sized so that excavation conforms to the plans submitted.

15. You are required to install a silt curtain in the waterway around your project as shown on the approved plans.

16. You must dredge to the dimensions and elevations shown on your approved plans.

17. You must not deposit or store any of the removed materials in any wetland or below the ordinary high watermark of any waterway. All removed materials must be placed out of the floodway of any stream.

18. A copy of the plans and permit must be provided to every contractor working on the project.

FINDINGS OF FACT

1. Becky Tobin, 250 Willians Street, William Bay, WI 53191, filed an application with this Department on 01/17/2023, under sections 30.20(2) and 30.208, Wisconsin Statutes, to dredge Geneva Lake located in the SW 1/4, NW 1/4, Sec. 06, T. 01, R. 17E, Village of Williams Bay, Walworth County.

2. The applicant proposes to dredge 450 cubic yards. The project is estimated to last 5 days. Prior to the start of work, a turbidity curtain will be deployed around the project area. A floating amphibious excavator will mechanically remove material to place directly into a small barge. An amphibious excavator would be deployed in the water to excavate the sediment and load it onto the barge.

3. The Department has evaluated the project as described in the application and plans.

4. This permit complies with the substantive requirements of s. 23.24, Stats. and NR 109, Adm. Code.

5. Geneva Lake is a navigable water.

6. The proposed project, if constructed in accordance with this permit will not adversely affect water quality, will not increase water pollution in surface waters and will not cause environmental pollution as defined in s. 283.01(6m), Wis. Stats.

7. The proposed project will not impact wetlands if constructed in accordance with this permit.

8. The Department of Natural Resources has determined that the agency's review of the proposed project constitutes an integrated analysis action under s. NR 150.20(2), Wis. Adm. Code. The Department has considered the impacts on the human

environment, alternatives to the proposed projects and has provided opportunities for public disclosure and comment. The Department has completed all procedural requirements of s. 1.11(2)(c), Wis. Stats., and NR 150, Wis. Adm. Code for this project.

9. The Department of Natural Resources and the applicant have completed all procedural requirements and the project as permitted will comply with all applicable requirements of Sections 30.20 and 30.208, Wisconsin Statutes and Chapters NR 102, 103, and 345 of the Wisconsin Administrative Code.

10. The structure or deposit will/will not be detrimental to the public interest because resource managers in fisheries, water quality, Stream biology, and conservation warden review the project and suggested to grant with usual conditions.

11. The activity will not cause environmental pollution as defined in s. 299.01(4).

1. Sediment was sampled, and arsenic was not detected, because the volume is less than 3,000 CY the material is exempt from solid waste disposal requirements.

2. Sediment sampling results showed multiple exceedances of TEC levels for PAHs using the CBSQGs, though none exceed PEC. The applicant will need to confirm if a WPDES permit is needed.

12. No material injury will result to the riparian rights of any riparian owners of real property that abuts any water body that is affected by the activity.

CONCLUSIONS OF LAW

1. The Department has authority under the above indicated Statutes and Administrative Codes to issue a permit for the construction and maintenance of this project.

2. The Department has complied with s. 1.11, Wis. Stats.

NOTICE OF APPEAL RIGHTS

If you believe that you have a right to challenge this decision, you should know that the Wisconsin statutes and administrative rules establish time periods within which requests to review Department decisions shall be filed. For judicial review of a decision pursuant to sections 227.52 and 227.53, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to file your petition with the appropriate circuit court and serve the petition on the Department. Such a petition for judicial review shall name the Department of Natural Resources as the respondent.

To request a contested case hearing of any individual permit decision pursuant to section 30.209, Wis. Stats., you have 30 days after the decision is mailed, or otherwise served by the Department, to serve a petition for hearing on the Secretary of the Department of Natural Resources, P.O. Box 7921, Madison, WI, 53707-7921. The petition shall be in writing, shall be dated and signed by the petitioner, and shall include as an attachment a copy of the decision for which administrative review is sought. If you are not the applicant, you must simultaneously provide a copy of the petition to the applicant. If you wish to request a stay of the project, you must provide information, as outlined below, to show that a stay is necessary to prevent significant adverse impacts or irreversible harm to the environment. If you are not the permit applicant, you must provide a copy of the petition to the permit applicant at the same time that you serve the petition on the Department.

The filing of a request for a contested case hearing is not a prerequisite for judicial review and does not extend the 30-day period for filing a petition for judicial review.

A request for contested case hearing must meet the requirements of section 30.209, Wis. Stats., and sections NR 2.03, 2.05, and 310.18, Wis. Admin. Code, and if the petitioner is not the applicant the petition must include the following information:

1. A description of the objection that is sufficiently specific to allow the department to determine which provisions of this section may be violated if the proposed permit or contract is allowed to proceed.

2. A description of the facts supporting the petition that is sufficiently specific to determine how the petitioner believes the project, as proposed, may result in a violation of Chapter 30, Wis. Stats.

3. A commitment by the petitioner to appear at the administrative hearing and present information supporting the petitioner's objection.

If the petition contains a request for a stay of the project, the petition must also include information showing that a stay is necessary to prevent significant adverse impacts or irreversible harm to the environment.

Dated at the Southeast Region Headquarters, Wisconsin on 04/05/2023.

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES
For the Secretary

By:



Alison Masek

Water Management Specialist

Douglas R. Snyder

From: Douglas R. Snyder
Sent: Tuesday, April 4, 2023 6:37 AM
To: Becky Tobin
Cc: Wayne Edwards
Subject: Southwick Creek - dredging project

Hi Dave,

See below. My guess is that this should go to parks and lakefront and then to finance if the Board has the appetite for this project. The \$85,000 number appears a little low to me—we should plan on \$150,000 for a project cost assuming that we have the contractor do the hauling to the Odling pit. We should bid it in the next two months so construction can start in October of 2023. We can take a bid for the hauling to Odling and Wayne can decide whether he has the forces after he sees the number.

I don't believe there was money in the borrowing for this, but they may try to use the \$500,000 set aside for Southwick Creek.

I will update the engineer's report on Friday.

Let me know if you have questions. May I get you a work order to bid this and administer the contracts?

Doug

From: Debbie Budyak <dbudyak@ilmenvironments.com>
Sent: Tuesday, April 4, 2023 6:04 AM
To: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Subject: RE: Southwick Creek - dredging project

*** **CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Good morning, Doug,

We received confirmation yesterday that the permit should be issued this week.

Please see below for our project estimate and brief scope. If you have questions or would like to see something different, just let me know.

- Project Estimate = \$85,000
- Material Haul off to Odling = \$15,000
- Scope: Mechanical removal of sediment from dredge area (50ft x 160ft) via amphibious excavator (1.10 psi or less). Removed material to be stockpiled and contained with stone. Requires installation of turbidity curtain around dredge area and silt fence around stockpile area.

Thank you!

Debbie

Debbie Budyak
Director of Client Services, ILM
Direct: (224) 480-4098

From: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Sent: Monday, March 20, 2023 8:27 AM
To: Debbie Budyak <dbudyak@ilmenvironments.com>
Subject: RE: Southwick Creek - dredging project

Yes – separate line item and possibly done by the Village if they have time.

I would like a scope (brief – just enough so your competitors also have to do it correctly-- and estimate before bid.

From: Debbie Budyak <dbudyak@ilmenvironments.com>
Sent: Monday, March 20, 2023 8:22 AM
To: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Subject: RE: Southwick Creek - dredging project

*** **CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Thanks for the quick response. Should we add haul off as a separate line item?

Also, do you want an official proposal for review before bidding, or just confirmation of the estimate?

Thanks, again!

Debbie

Debbie Budyak
Director of Client Services, ILM
Direct: (224) 480-4098

From: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Sent: Monday, March 20, 2023 8:15 AM
To: Debbie Budyak <dbudyak@ilmenvironments.com>
Subject: RE: Southwick Creek - dredging project

No issues with that---you have until the ice is on.

I am guessing that we will end up bidding it; I would like to tailor the bid documents to your scope. Odling will take the material for free; we still need to find a way to get it there once it is dewatered.

From: Debbie Budyak <dbudyak@ilmenvironments.com>
Sent: Monday, March 20, 2023 8:12 AM
To: Douglas R. Snyder <dsnyder@baxterwoodman.com>
Subject: Southwick Creek - dredging project

*** **CAUTION: Think Security!** This email originated from outside of Baxter & Woodman, Inc. Do not click on links or open attachments unless you recognize the sender and know that the content is safe.

Hi Doug,

I wanted to confirm receipt of your voicemail regarding the dredge project. We hope to have the permit very soon.

In the meantime, I will work with the team to firm up a proposal for the project. I did want to confirm timing. You mentioned just after Labor Day in your voicemail – correct? We do have a project already scheduled in September that cannot be adjusted due to wildlife impacts. If ILM is selected to complete the work, October would be the soonest we could do the work. Would there be any issues with that?

Thank you!

Debbie

Debbie Budyak
Director of Client Services



110 Le Baron Street, Waukegan, IL 60085
Office: (847) 244-6662 | Direct: (224) 480-4098
dbudyak@ilmenvironments.com | ilmenvironments.com



**VILLAGE OF WILLIAMS BAY, WISCONSIN
GENEVA LAKE DREDGING AT SOUTHWICK CREEK
DESIGN AND CONSTRUCTION ENGINEERING SERVICES
WORK ORDER**

ENGINEERS' PROJECT NO. 0222379.00

Project Description:

The Owner obtained an individual permit from the Wisconsin Department of Natural Resources on April 5, 2023 to dredge the outlet of Southwick Creek at Geneva Lake. The dredging would occur in October 2023. The dewatered material will be transported to the Odling pit in the Town of Delavan.

Engineering Services:

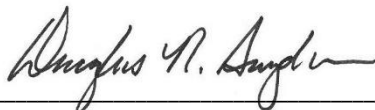
Specific Engineering services are described in the Master Engineering Services Agreement between the Owner and Engineers dated October 16, 2017. A detailed scope of services for this Project is listed in Attachment A of this Work Order. Manpower requirements and a fee summary are listed in Attachment B.

Compensation:

Compensation for the services will be in accordance with the Master Engineering Services Agreement dated October 16, 2017. The Owner shall pay the Engineer for the services performed or furnished under Attachment A, based upon the Engineer's standard hourly billing rates included in Attachment B for actual work time performed plus reimbursement of out-of-pocket expenses including travel, which in total will not exceed **\$11,100**.

Submitted by: **Baxter & Woodman, Inc.**

By: _____



Douglas R. Snyder, P.E.

Title: Vice President

Date: April 5, 2023

Approved: **Village of Williams Bay, WI**

By: _____

William B. Duncan

Title: President

Date: _____

Attest: _____

Tina Kolls, Clerk

Additional Comments: None.

Project Description

The Owner obtained an individual permit from the Wisconsin Department of Natural Resources on April 5, 2023 to dredge the outlet of Southwick Creek at Geneva Lake. The dredging would occur in October 2023. The dewatered material will be transported to the Odling pit in the Town of Delavan.

Scope of Services - Design

The following scope of services details the anticipated tasks necessary to successfully complete this Project:

1. PROJECT MANAGEMENT - Plan, schedule, and control the activities that must be performed to complete the Project. These activities include, but are not limited to, budget, schedule, and scope. Confer with Owner staff and project team to ensure the goals of the Project are achieved. Attend up to two meetings.
2. SITE VISITS - Conduct site visits by designers to determine scope requirements.
3. PRELIMINARY AND FINAL DESIGN – Prepare Design Documents consisting of drawings showing the general scope, extent, and character of construction work to be furnished and performed by the Contractors selected by the Owner.
4. BIDDING DOCUMENTS - Prepare for review and approval by the Owner and its legal counsel the forms of Construction Contract Documents consisting of Advertisement for Bids, Bidder Instructions, Bid Form, Agreement, Performance Bond Form, Payment Bond Form, General Conditions, and Supplementary Conditions and specifications, where appropriate, based upon documents prepared by the Engineers Joint Contract Document Committee (EJCDC).
5. QUALITY CONTROL REVIEWS - Conduct peer review and constructability review of the Design Documents.
6. ENGINEERS' OPINION OF PROBABLE COST - Prepare an opinion of the probable construction cost prior to the bid opening.
7. ASSIST BIDDING - Provide documents for bidding and assist the Owner in solicitation of bids from as many qualified bidders as possible, attend the bid opening, evaluate, and tabulate the bids received, and prepare a recommendation letter to the Owner for their action.

Scope of Services - Construction

The following scope of services details the anticipated tasks necessary to successfully complete this Project:

1. Act as the Owner's representative with duties, responsibilities, and limitations of authority as assigned in the construction contract documents.
2. CONSTRUCTION ADMINISTRATION
 - A. Prepare Award Letter, Agreement, Contract Documents, Performance/Payment Bonds, and Notice to Proceed. Receive Contractor insurance documents.
 - B. Attend and prepare minutes for the preconstruction conference and review the Contractor's proposed construction schedule and list of subcontractors.
 - C. Attend periodic construction progress meetings.
 - D. Shop drawing and submittal review by Engineer shall apply only to the items in the submissions and only for the purpose of assessing, if upon installation or incorporation in the Project, they are generally consistent with the construction documents. Owner agrees that the contractor is solely responsible for the submissions (regardless of the format in which provided, i.e., hard copy or electronic transmission) and for compliance with the contract documents. Owner further agrees that the Engineer's review and action in relation to these submissions shall not constitute the provision of means, methods, techniques, sequencing or procedures of construction or extend to safety programs or precautions. Engineer's consideration of a component does not constitute acceptance of the assembled item.
 - E. Review construction record drawings for completeness prior to submission to CADD.
 - F. Prepare construction contract change orders and work directives when authorized by the Owner.
 - G. Review the Contractor's requests for payments as construction work progresses and advise the Owner of amounts due and payable to the Contractor in accordance with the terms of the construction contract documents.
 - H. Research and prepare written response by Engineer to request for information from the Owner and Contractor.
 - I. Project manager or other office staff visit site as needed.

3. FIELD OBSERVATION – Part Time

- A. Engineer will provide a Resident Project Representative at the construction site on a periodic part-time basis from the Engineer' office of not more than eight (8) hours per regular weekday, not including legal holidays as deemed necessary by the Engineer, to assist the Contractor with interpretation of the Drawings and Specifications, to observe in general if the Contractor's work is in conformity with the Final Design Documents, and to monitor the Contractor's progress as related to the Construction Contract date of completion.
- B. Through standard, reasonable means, Engineer will become generally familiar with observable completed work. If the Engineer observes completed work that is inconsistent with the construction documents, that information shall be communicated to the contractor and Owner to address. Engineer shall not supervise, direct, control, or have charge or authority over any contractor's work, nor shall the Engineer have authority over or be responsible for the means, methods, techniques, sequences, or procedures of construction selected or used by any contractor, or the safety precautions and programs incident thereto, for security or safety at the site, nor for any failure of any contractor to comply with laws and regulations applicable to such contractor's furnishing and performing of its work. Engineer neither guarantees the performance of any contractor nor assumes responsibility for any contractor's failure to furnish and perform the work in accordance with the contract documents, which contractor is solely responsible for its errors, omissions, and failure to carry out the work. Engineer shall not be responsible for the acts or omissions of any contractor, subcontractor, or supplier, or of any of their agents or employees or any other person, (except Engineer's own agents, employees, and consultants) at the site or otherwise furnishing or performing any work; or for any decision made regarding the contract documents, or any application, interpretation, or clarification, of the contract documents, other than those made by the Engineer.
- C. Part-Time Field Observation provides that the Resident Project Representative will make intermittent site visits to observe the progress and quality of Contractor's executed Work. Part-Time Field Observation does not guarantee the Engineer will observe or comment on work completed by the contractor at times the Resident Project Representative is not present on site. Such visits and observations by the Resident Project Representative, if any, are not intended to be exhaustive or to extend to every aspect of Contractor's Work in progress or to involve detailed inspections of Contractor's Work in progress beyond the responsibilities specifically assigned to Engineer in this Agreement and the Contract Documents, but rather are to be limited to spot checking, selective sampling, and similar methods of general observation of the Work based on Engineer's exercise of professional judgment as assisted by the Resident Project Representative, if any.

-
- D. Provide the necessary base lines, benchmarks, and reference points to enable the Contractor to proceed with the work.
 - E. Keep a daily record of the Contractor's work on those days that the Engineers are at the construction site including notations on the nature and cost of any extra work and provide weekly reports to the Owner of the construction progress and working days charged against the Contractor's time for completion.
4. SUBSTANTIAL COMPLETION OF PROJECT
- A. Provide construction inspection services when notified by the Contractor that the Project is substantially complete. Prepare written punch lists during substantial completion inspections.
 - B. Prepare Certificate of Substantial Completion.
5. COMPLETION OF PROJECT
- A. Provide construction inspection services when notified by the Contractor that the Project is complete. Prepare written punch lists during final completion inspections.
 - B. Review the Contractor's written guarantees and issue a Notice of Acceptability for the Project by the Owner.
 - C. Review the Contractor's requests for final payment and advise the Owner of the amounts due and payable to the Contractor in accordance with the terms of the construction contract documents.
 - D. Prepare construction record drawings which show field measured dimensions of the completed work which the Engineers consider significant and provide the Owner with an electronic copy within ninety (90) days of the Project completion.

P:\WLMSV\222379-Dredging at SW Creek\Contracts\Work Order 222379.00.docx

Village of Williams Bay**Plan Number: 222379.00****Plan Name: WLMSV - Geneva Lake Dredging at Southwick Creek**

Level	Emp	Planned Hrs	Planned Labor Bill	Compensation Fee	Reimb Allowance	Total Compensation
Overall Project Total		60.00	10,447.15	10,600.00	500.00	11,100.00
GM700 Plan Preparation		30.00	4,544.35	4,600.00	0.00	4,600.00
	Julie Crayton	2.00	180.00			
	Jordan Sharpe	16.00	1,509.40			
	Douglas Snyder	12.00	2,854.95			
GM750 Bidding and Award		8.00	1,260.00	1,300.00	100.00	1,400.00
	Julie Crayton	4.00	360.00			
	Douglas Snyder	4.00	900.00			
GM790 Construction Admin and Site Visits		22.00	4,642.80	4,700.00	400.00	5,100.00
	Julie Crayton	4.00	360.00			
	Douglas Snyder	18.00	4,282.80			

April 5, 2023

David Lothspeich, Administrator
Village of Williams Bay
250 Williams Street
Williams Bay, WI 53191

Subject: Additional Sidewalk Replacement on Elkhorn Road

Dear Mr. Lothspeich,

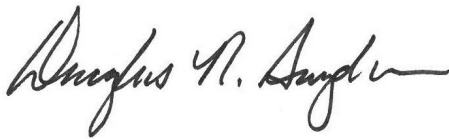
Attached is a packet showing broken and heaving sidewalk sections on Elkhorn Road between Olive Street and Stark Street; the WDOT refused to replace these sections. Also attached is a quote for \$12.50 per square foot from JW Schultz Construction (Schultz).

Schultz is the subcontractor to Payne & Dolan, Inc. that is constructing the concrete improvements under the WDOT contact. Initially this quote appeared high based on their \$6.25 per square foot WDOT bid price. However, that price did not include sidewalk removal being completed by Payne & Dolan. In addition, the City of Burlington recently bid a sidewalk replacement program that included four bidder's ranging from \$9.49 to \$18.40 per square foot. The Burlington scope is similar to the work proposed by Schultz.

Given the above results, we believe that the price from Schultz is reasonable and recommend approval of the quote for \$12.50 per square foot. The estimated quantity is 480 square feet for a cost of \$6,000. The quote assumed a quantity of 750 square feet, but Schultz will only be paid for the sidewalk completed. We ask for a not to exceed amount of \$9,000.

Sincerely,

BAXTER & WOODMAN, INC.
CONSULTING ENGINEERS



Douglas R. Snyder, P.E.

DRS/drs

Encs.

C/encs.: Brett Biwer, PE
Wayne Edwards, DPW

P:\WLMSP\ADDITIONAL SIDEWALK BIDS.DOC

PROPOSAL



JW Schultz Construction Co., Inc.

N2941 Banker Road, PO Box 159, Fort Atkinson, WI 53538
Ph: (920) 568-8699 ~ Fax: (920) 568-8819

jason@jwschultz.net

WE ARE MEMBERS OF LOCALS 139, 464 & 599

Date/Time: 4/4/2023

Project: City Sidewalk Repairs

Location: Williams Bay, Wis

PRICING:

<u>P I N</u>	<u>Description</u>	<u>Quantity</u>	<u>U/M</u>	<u>Unit Price</u>	<u>Extension</u>
	Removal and Replacement of Approx. 750 SF of Sidewalk with NO Restoration on Hwy 67 Between Olive Street & Stark Street on the West Side	750	SF	12.50	\$9,375.00
				Total	\$9,375.00

1 Mobilizations Have Been Included.

NO_ Bond Has Been Included

Exclusions:

~~GC To Provide Base For All Walks & Curbs Unless Otherwise Noted.~~

~~Layout Or Staking By Others.~~

No Backfill Behind Walks Or Curbs, Topsoil, Plantings Or Restorations.

~~No Excavation, Removals Or Saw Cutting Unless As A Pay Item.~~

~~Grade to be +/- .10 From Bottom of Concrete~~

~~Traffic Control For Our Participation Only.~~

~~This Bid is For Work Completed by October 31st. Cold costs shall be added for all work after October 31st.~~

~~Cold Cover Plastic per Layer \$.75 a LF for Curb, \$.35 a SF for Flatwork~~

~~Straw \$.35 a LF For Curb, \$.75 a SF for Flatwork~~

~~Heated Concrete \$.60 a LF for Curb & \$.18 a SF for Flatwork~~

JW SCHULTZ CONSTRUCTION CO., INC.

GENERAL CONTRACTOR

By: _____

By: _____

Date: _____

Date: _____

If You Have Any Questions, Please Call Jason (608) 295-6891. Quote is good for 30 days.

All Bids Received
January 10, 2023

Proposal Call: 015 Proposal ID: 20230110015

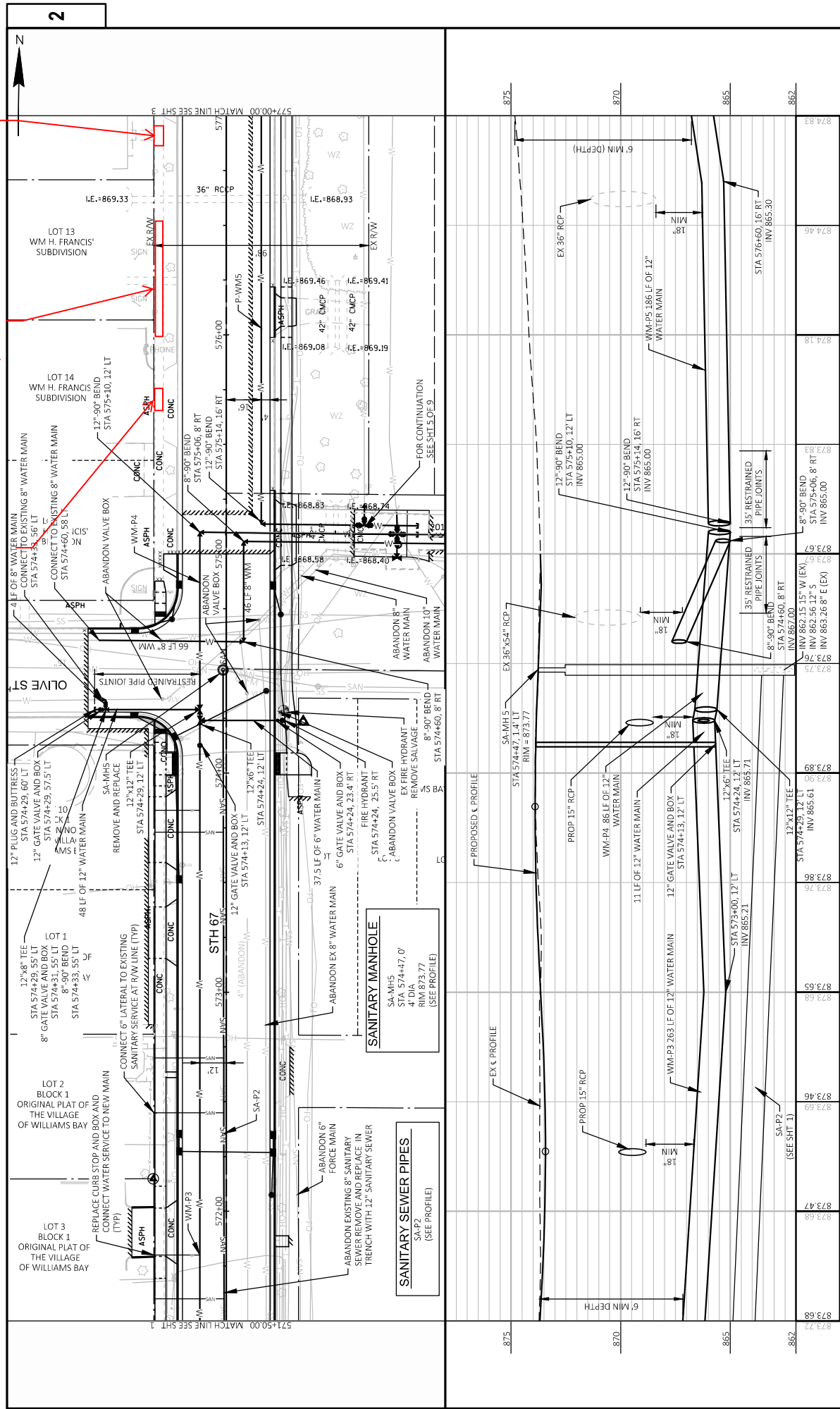
State Project(s): 3325-06-71
3325-06-72

Location: Walworth

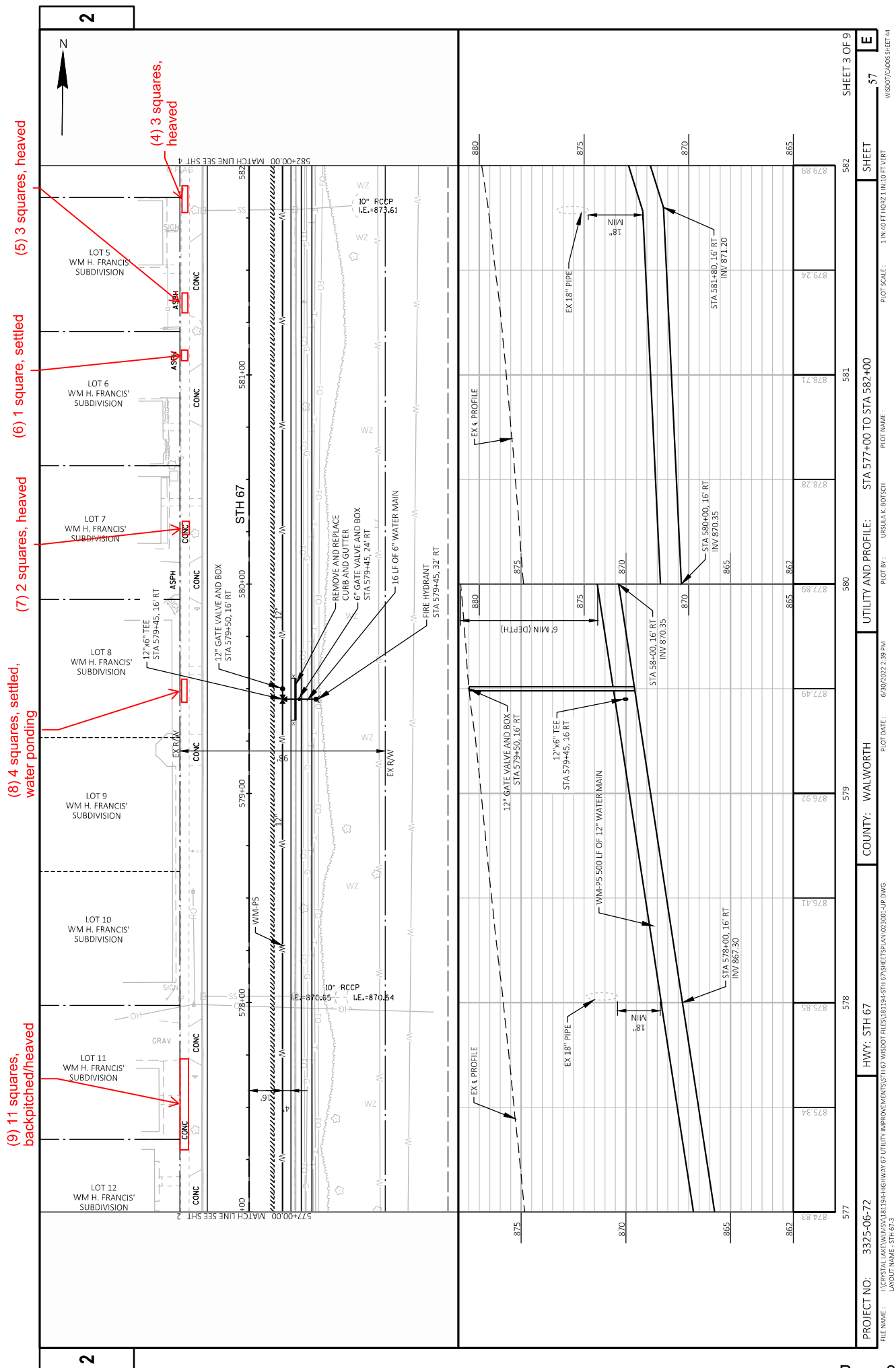
Walworth - Elkhorn; Geneva St To Glenwood Dr
STH 067, Walworth County
Walworth - Elkhorn

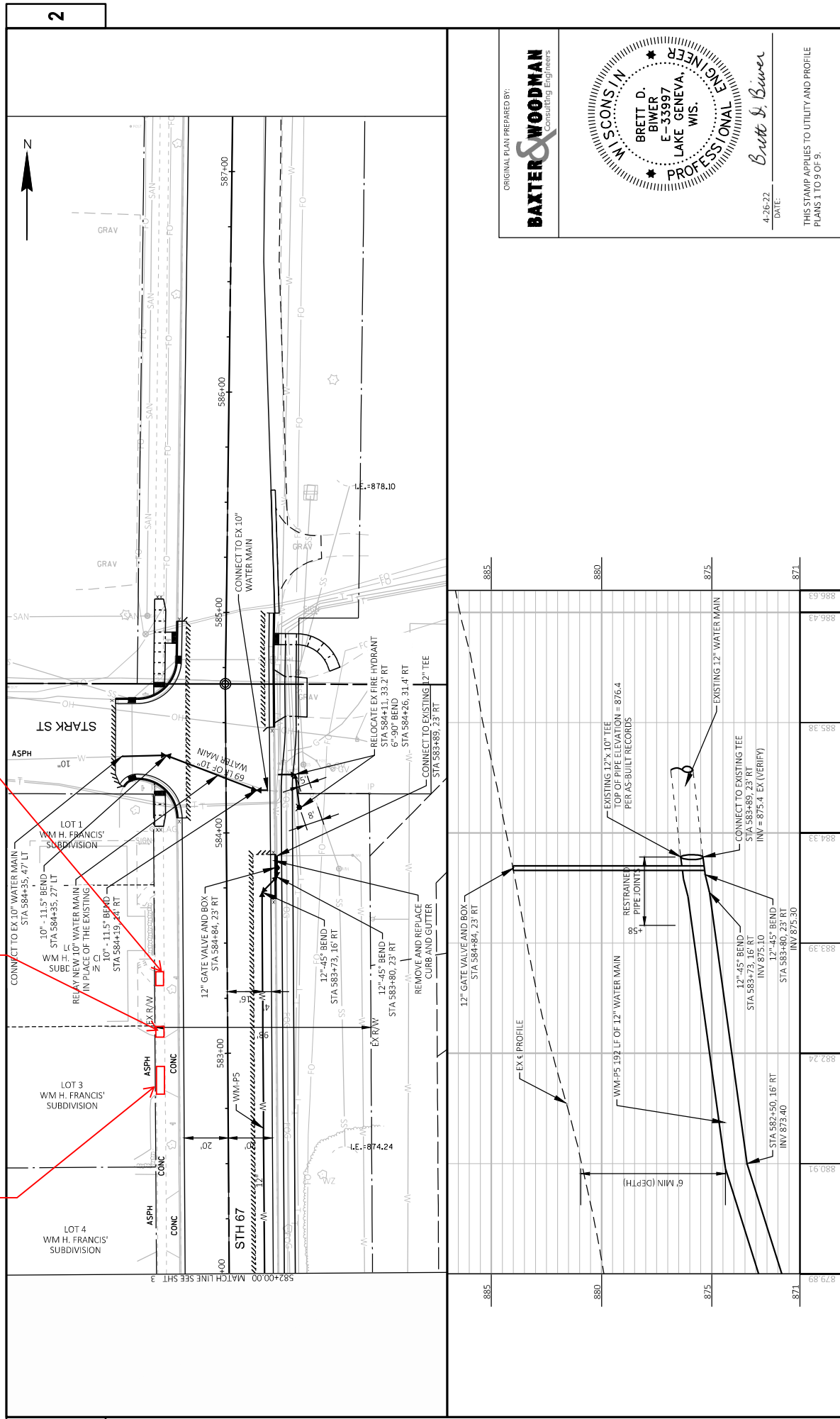
Item Number	Item Description	Unit	Estimated Quantity	Bidder No. 1		Bidder No. 2		Bidder No. 3	
				Bid Price	Amount	Bid Price	Amount	Bid Price	Amount
522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2,000	1,607.42	3,214.84	1,600.00	3,200.00	0.00	0.00
522.2634	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 34x53-Inch	EACH	2,000	2,221.59	4,443.18	3,900.00	7,800.00	0.00	0.00
601.0110	Concrete Curb Type D	LF	38,000	50.00	1,900.00	29.19	1,109.22	0.00	0.00
601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	2,476,000	22.00	54,472.00	27.55	68,213.80	0.00	0.00
601.0600	Concrete Curb Pedestrian	LF	86,000	40.00	3,440.00	46.83	4,027.38	0.00	0.00
602.0410	Concrete Sidewalk 5-Inch	SF	8,900,000	6.25	55,625.00	7.00	62,300.00	0.00	0.00
602.0505	Curb Ramp Detectable Warning Field Yellow	SF	130,000	40.00	5,200.00	41.19	5,354.70	0.00	0.00
602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	12,000	75.00	900.00	94.20	1,130.40	0.00	0.00
606.0200	Riprap Medium	CY	82,000	78.61	6,446.02	176.00	14,432.00	0.00	0.00
608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	243,000	99.54	24,188.22	130.00	31,590.00	0.00	0.00
608.0415	Storm Sewer Pipe Reinforced Concrete Class IV 15-Inch	LF	192,000	105.93	20,338.56	145.00	27,840.00	0.00	0.00
611.0535	Manhole Covers Type J-Special	EACH	3,000	625.78	1,877.34	550.00	1,650.00	0.00	0.00
611.0624	Inlet Covers Type H	EACH	7,000	846.27	5,923.89	816.00	5,712.00	0.00	0.00
611.0639	Inlet Covers Type H-S	EACH	12,000	644.52	7,734.24	614.00	7,368.00	0.00	0.00
611.2004	Manholes 4-FT Diameter	EACH	1,000	2,683.83	2,683.83	2,053.00	2,053.00	0.00	0.00
611.2005	Manholes 5-FT Diameter	EACH	1,000	5,383.29	5,383.29	3,100.00	3,100.00	0.00	0.00
611.3004	Inlets 4-FT Diameter	EACH	4,000	2,929.21	11,716.84	2,037.00	8,148.00	0.00	0.00
611.3230	Inlets 2x3-FT	EACH	12,000	2,418.49	29,021.88	1,800.00	21,600.00	0.00	0.00
611.8110	Adjusting Manhole Covers	EACH	9,000	614.12	5,527.08	350.00	3,150.00	0.00	0.00
611.8115	Adjusting Inlet Covers	EACH	1,000	504.92	504.92	350.00	350.00	0.00	0.00

(12) 3 squares, cracked, driveway
(11) 14 squares, backpitched/heaved
(10) 2 squares, cracked



PROJECT NO:	3325-06-72	UTILITY AND PROFILE:	STA 571+50 TO STA 577+00	SHEET	56
FILE NAME:	I:\CRYSTAL LAKE\WALSW18194-HIGHWAY 67 UTILITY IMPROVEMENTS\STH 67\WISDOT FILES\18194-STH 67\UTL\PLAN\02300-UP.DWG	COUNTY:	WALWORTH	PLOT NAME:	WISDOT\02300-UP.DWG
		HWY:	STH 67	PLOT BY:	URS A.K. ROTSCH
				PLOT DATE:	6/30/2022 2:38 PM
				PLOT SCALE:	1 IN=40 FT HORIZ 1 IN=10 FT VERT





PROJECT NO: 3325-06-72

FILE NAME: I:\CRYSTAL LAKE\WALSH\18194-HIGHWAY 67 UTILITY IMPROVEMENTS\18194-SH-167\UTILITY\PLAN\02300-UP.DWG

LAYOUT NAME: STH 67-4

COUNTY: WALWORTH

UTILITY AND PROFILE: STA 582+00 TO STA 585+10

PLOT BY: URSULA K. ROTSCH

PLOT DATE: 9/14/2022 1:28 PM

PROF. NO: 3325-06-72

DATE: 4-26-22

THIS STAMP APPLIES TO UTILITY AND PROFILE PLANS 1 TO 9 OF 9.

BAXTER & WOODMAN
Consulting Engineers

WISCONSIN PROFESSIONAL ENGINEER
BRETT D. BIWER
E-33987
LAKE GENEVA, WIS.

Brett D. Biwer

SHEET 4 OF 9

SHEET 38

PLOT SCALE: 1 IN=40 FT HORIZ 1 IN=10 FT VERT





2,3





5







8



6

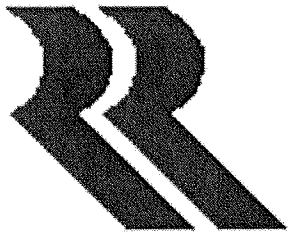


10





12



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (PLAN ISSUES)	Bid Number:	51.23015.99001/2
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99001/2.1	March 6th Sanitary/Watermain Plan Errors	1.00	LS	\$4,578.23	\$4,578.23

Total Bid Price: \$4,578.23

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature: 

Estimator: Patrick W. Gardner

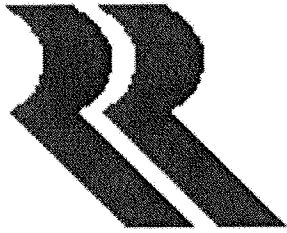
Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/6/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	4.00	4.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 183.08	\$ 183.08
Foreman	4.00	4.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 183.08	\$ 183.08
Foreman	4.00	4.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 183.08	\$ 183.08
Operator	3.00	3.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 126.81	\$ 126.81
Operator	3.00	3.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 126.81	\$ 126.81
Operator	3.00	3.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 126.81	\$ 126.81
SUBTOTAL - LABOR	21.00	21.00	-				\$ 929.67	\$ 929.67
	total hours		21.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)			-	Hr @			\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3			-	Hr @			\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund			-	Hr @			\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund			-	Hr @			\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			12.00	Hr @			\$ 26.50	\$ 318.00
Labor Local 464 Pension & Welfare Fund			9.00	Hr @			\$ 18.85	\$ 169.65
			21.00					
Subtotal - Labor								\$ 1,417.32
Plus 35% of Labor		35%	\$ 1,417.32					\$ 496.06
Subtotal - Labor								\$ 1,913.38
Workman's Compensation Ins &								
Liability & Property Damage Ins			12.00%	\$ 929.67			\$ 111.56	
Federal Unemployment Tax			0.60%	\$ 929.67			\$ 5.58	
State Unemployment Tax			4.45%	\$ 929.67			\$ 41.37	
Federal Social Security Tax - Medicare			1.45%	\$ 929.67			\$ 13.48	
Federal Social Security Tax - OASDI			6.20%	\$ 929.67			\$ 57.64	
TOTAL PAYROLL ADDITIVES							229.63	
Plus 15% of Payroll Additives							34.44	
								264.07
TOTAL LABOR								\$ 2,177.45

Equipment Expenses	6-Mar	Total Hours	Rate	Amount
Foreman Vehicle	6.00	6.00	\$ 34.93	\$ 209.58
Kubota Mini	4.00	4.00	\$ 89.82	\$ 359.28
CAT 336	4.00	4.00	\$ 193.98	\$ 775.92
Total Equipment Expense				\$ 1,344.78

Equipment Rental/Subcontracted Work	6-Mar	Total Quantity	Unit	Unit Price	Amount
Quad Axle	8.00	8.00	Day	\$ 120.00	\$ 960.00
Equipment Rent / Subcontract Subtotal					\$ 960.00
Plus 10% on the 1st \$10,000		10%	\$ 960.00		\$ 96.00
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ 1,056.00

Material Used	6-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 2,177.45
Total Equipment	\$ 1,344.78
Total Subcontract Work	\$ 1,056.00
Total Materials	\$ -
Total Bill	\$ 4,578.23



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (March 15th)	Bid Number:	51.23015.99005
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99005.1	March 15th Required Stop	1.00	LS	\$2,942.44	\$2,942.44

Total Bid Price: \$2,942.44

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature: _____

Estimator: Patrick W. Gardner

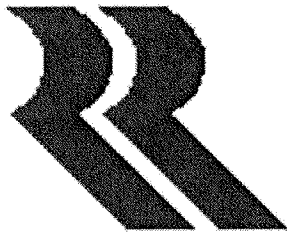
Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/15/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	5.00	5.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 228.85	\$ 228.85
Foreman	5.00	5.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 228.85	\$ 228.85
Operator	5.00	5.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 211.35	\$ 211.35
Laborer	5.00	5.00	-	\$ 36.87	\$ 55.31	\$ 73.74	\$ 184.35	\$ 184.35
SUBTOTAL - LABOR	20.00	20.00	-				\$ 853.40	\$ 853.40
	total hours		20.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)			-	Hr @			\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3			-	Hr @			\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund			-	Hr @			\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund			-	Hr @			\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			15.00	Hr @			\$ 26.50	\$ 397.50
Labor Local 464 Pension & Welfare Fund			5.00	Hr @			\$ 18.85	\$ 94.25
			20.00					
Subtotal - Labor								\$ 1,345.15
Plus 35% of Labor		35%	\$ 1,345.15					\$ 470.80
Subtotal - Labor								\$ 1,815.95
Workman's Compensation Ins &								
Liability & Property Damage Ins								
Federal Unemployment Tax								
State Unemployment Tax								
Federal Social Security Tax - Medicare								
Federal Social Security Tax - OASDI								
TOTAL PAYROLL ADDITIVES								210.79
Plus 15% of Payroll Additives								31.62
								242.41
TOTAL LABOR								\$ 2,058.36

Equipment Expenses	15-Mar	Total Hours	Rate	Amount
Foreman Vehicle	4.00	4.00	\$ 34.93	\$ 139.72
CAT 336	2.00	2.00	\$ 193.98	\$ 387.96
Total Equipment Expense				\$ 527.68

Equipment Rental/Subcontracted Work	15-Mar	Total Quantity	Unit	Unit Price	Amount
Quad Axle	3.00	3.00	Day	\$ 108.00	\$ 324.00
Equipment Rent / Subcontract Subtotal					\$ 324.00
Plus 10% on the 1st \$10,000		10%	\$ 324.00		\$ 32.40
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ 356.40

Material Used	15-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 2,058.36
Total Equipment	\$ 527.68
Total Subcontract Work	\$ 356.40
Total Materials	\$ -
Total Bill	\$ 2,942.44



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (Casing)	Bid Number:	51.23015.99006
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99006.1	Watermain Casing	1.00	LS	\$2,870.14	\$2,870.14

Total Bid Price: \$2,870.14

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

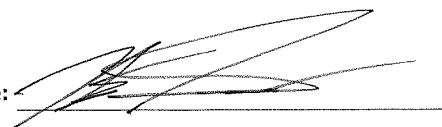
Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature:  _____

Estimator: Patrick W. Gardner

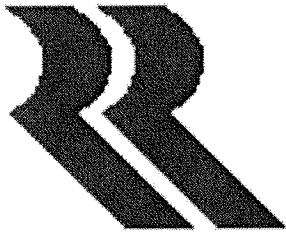
Name	Date(s)	Total Hours			Rates			Insurance Amount	Payroll Amount
	3/24/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate			
Foreman	5.00	5.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 228.85	\$ 228.85	
Operator	5.00	5.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 211.35	\$ 211.35	
Laborer	5.00	5.00	-	\$ 36.87	\$ 55.31	\$ 73.74	\$ 184.35	\$ 184.35	
SUBTOTAL - LABOR		15.00	15.00	-			\$ 624.55	\$ 624.55	
total hours			15.00						
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)				-	Hr	@	\$ 44.91	\$ -	
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3				-	Hr	@	\$ 45.58	\$ -	
Labor Local 32 Pension & Welfare Fund				-	Hr	@	\$ 35.83	\$ -	
Teamster Local 325 Pension & Welfare Fund				-	Hr	@	\$ 26.16	\$ -	
Operating Engineer Local 139 Pension & Welfare Fund				10.00	Hr	@	\$ 26.50	\$ 265.00	
Labor Local 464 Pension & Welfare Fund				5.00	Hr	@	\$ 18.85	\$ 94.25	
				15.00					
Subtotal - Labor								\$ 983.80	
Plus 35% of Labor				35%	\$	983.80		\$ 344.33	
Subtotal - Labor								\$ 1,328.13	
Workman's Compensation Ins &									
Liability & Property Damage Ins				12.00%	\$	624.55	\$ 74.95		
Federal Unemployment Tax				0.60%	\$	624.55	\$ 3.75		
State Unemployment Tax				4.45%	\$	624.55	\$ 27.79		
Federal Social Security Tax - Medicare				1.45%	\$	624.55	\$ 9.06		
Federal Social Security Tax - OASDI				6.20%	\$	624.55	\$ 38.72		
TOTAL PAYROLL ADDITIVES							154.27		
Plus 15% of Payroll Additives							23.14		
								177.41	
TOTAL LABOR								\$ 1,505.54	

Equipment Expenses	24-Mar	Total Hours	Rate	Amount
Foreman Vehicle	2.00	2.00	\$ 34.93	\$ 69.86
CAT 336	3.00	3.00	\$ 193.98	\$ 581.94
Total Equipment Expense				\$ 651.80

Equipment Rental/Subcontracted Work	24-Mar	Total Quantity	Unit	Unit Price	Amount
Quad Axle	6.00	6.00	Day	\$ 108.00	\$ 648.00
Equipment Rent / Subcontract Subtotal					\$ 648.00
Plus 10% on the 1st \$10,000		10%	\$ 648.00		\$ 64.80
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ 712.80

Material Used	24-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 1,505.54
Total Equipment	\$ 651.80
Total Subcontract Work	\$ 712.80
Total Materials	\$ -
Total Bill	\$ 2,870.14



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (WM REPAIR)	Bid Number:	51.23015.99008
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99008.1	WATERMAIN BREAK REPAIR	1.00	EACH	\$2,013.60	\$2,013.60

Total Bid Price: \$2,013.60

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

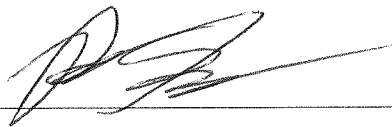
Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature:  _____

Estimator: Patrick W. Gardner

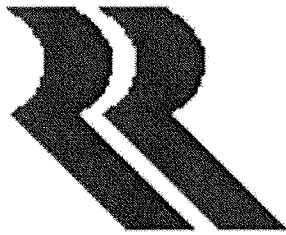
Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/24/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	2.00	-	2.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 91.54	\$ 137.31
Foreman	2.00	-	2.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 91.54	\$ 137.31
Foreman	2.00	-	2.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 91.54	\$ 137.31
Operator	2.00	-	2.00	\$ 42.27	\$ 63.41	\$ 84.54	\$ 84.54	\$ 126.81
Laborer	2.00	-	2.00	\$ 36.87	\$ 55.31	\$ 73.74	\$ 73.74	\$ 110.61
SUBTOTAL - LABOR	10.00	-	10.00				\$ 432.90	\$ 649.35
	total hours		10.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)		-	Hr @				\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3		-	Hr @				\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund		-	Hr @				\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund		-	Hr @				\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			8.00 Hr @				\$ 26.50	\$ 212.00
Labor Local 464 Pension & Welfare Fund			2.00 Hr @				\$ 18.85	\$ 37.70
			10.00					
Subtotal - Labor								\$ 899.05
Plus 35% of Labor		35%	\$ 899.05					\$ 314.67
Subtotal - Labor								\$ 1,213.72
Workman's Compensation Ins &								
Liability & Property Damage Ins			12.00%	\$ 432.90			\$ 51.95	
Federal Unemployment Tax			0.60%	\$ 649.35			\$ 3.90	
State Unemployment Tax			4.45%	\$ 649.35			\$ 28.90	
Federal Social Security Tax - Medicare			1.45%	\$ 649.35			\$ 9.42	
Federal Social Security Tax - OASDI			6.20%	\$ 649.35			\$ 40.26	
TOTAL PAYROLL ADDITIVES							134.43	
Plus 15% of Payroll Additives							20.16	
								154.59
TOTAL LABOR								\$ 1,368.31

Equipment Expenses	24-Mar	Total Hours	Rate	Amount
Foreman Vehicle	6.00	6.00	\$ 34.93	\$ 209.58
CAT 420 Backhoe	1.00	1.00	\$ 87.73	\$ 87.73
CAT 329F Backhoe	2.00	2.00	\$ 173.99	\$ 347.98
Total Equipment Expense				\$ 645.29

Equipment Rental/Subcontracted Work	24-Mar	Total Quantity	Unit	Unit Price	Amount
	0.00 0	-	Day	\$ -	\$ -
Equipment Rent / Subcontract Subtotal					\$ -
Plus 10% on the 1st \$10,000		10%	\$ -		\$ -
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ -

Material Used	24-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 1,368.31
Total Equipment	\$ 645.29
Total Subcontract Work	\$ -
Total Materials	\$ -
Total Bill	\$ 2,013.60



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (HYDRANT RELOCATE)		
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI		
		Bid Number:	51.23015.99009
		Bid Date:	3/31/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99009.1	WATERMAIN BREAK REPAIR	1.00	EACH	\$1,269.48	\$1,269.48

Total Bid Price: \$1,269.48

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature: _____

Estimator: Patrick W. Gardner

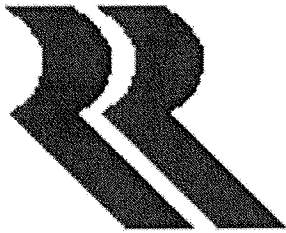
Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/24/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	2.00	1.00	1.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 91.54	\$ 114.43
Operator	2.00	-	2.00	\$ 42.27	\$ 63.41	\$ 84.54	\$ 84.54	\$ 126.81
Operator	2.00	-	2.00	\$ 42.27	\$ 63.41	\$ 84.54	\$ 84.54	\$ 126.81
Laborer	2.00	-	2.00	\$ 36.87	\$ 55.31	\$ 73.74	\$ 73.74	\$ 110.61
SUBTOTAL - LABOR	8.00	1.00	7.00				\$ 334.36	\$ 478.66
	total hours		8.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)		-	Hr @				\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3		-	Hr @				\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund		-	Hr @				\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund		-	Hr @				\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			6.00 Hr @				\$ 26.50	\$ 159.00
Labor Local 464 Pension & Welfare Fund			2.00 Hr @				\$ 18.85	\$ 37.70
			8.00					
Subtotal - Labor								\$ 675.36
Plus 35% of Labor		35%	\$ 675.36					\$ 236.37
Subtotal - Labor								\$ 911.73
Workman's Compensation Ins &								
Liability & Property Damage Ins			12.00%	\$ 334.36			\$ 40.12	
Federal Unemployment Tax			0.60%	\$ 478.66			\$ 2.87	
State Unemployment Tax			4.45%	\$ 478.66			\$ 21.30	
Federal Social Security Tax - Medicare			1.45%	\$ 478.66			\$ 6.94	
Federal Social Security Tax - OASDI			6.20%	\$ 478.66			\$ 29.68	
TOTAL PAYROLL ADDITIVES							100.91	
Plus 15% of Payroll Additives							15.14	
								116.05
TOTAL LABOR							\$	1,027.78

Equipment Expenses	24-Mar	Total Hours	Rate	Amount
Foreman Vehicle	2.00	2.00	\$ 34.93	\$ 69.86
CAT 938M Loader	2.00	2.00	\$ 85.92	\$ 171.84
Total Equipment Expense				\$ 241.70

Equipment Rental/Subcontracted Work	24-Mar	Total Quantity	Unit	Unit Price	Amount
	0.00	-	Day	\$ -	\$ -
Equipment Rent / Subcontract Subtotal					\$ -
Plus 10% on the 1st \$10,000		10%	\$ -		\$ -
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ -

Material Used	24-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 1,027.78
Total Equipment	\$ 241.70
Total Subcontract Work	\$ -
Total Materials	\$ -
Total Bill	\$ 1,269.48



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (8" FORCE MAIN)	Bid Number:	51.23015.99010
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
990010,1	FIND 8" FORCE MAIN	1.00	EACH	\$11,111.82	\$11,111.82

Total Bid Price: \$11,111.82

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature: _____

Estimator: Patrick W. Gardner

Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/29/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	11.00	8.00	3.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 503.47	\$ 572.13
Operator	10.50	8.00	2.50	\$ 42.27	\$ 63.41	\$ 84.54	\$ 443.84	\$ 496.67
Operator	10.50	8.00	2.50	\$ 42.27	\$ 63.41	\$ 84.54	\$ 443.84	\$ 496.67
Laborer	8.00	8.00	-	\$ 36.87	\$ 55.31	\$ 73.74	\$ 294.96	\$ 294.96
SUBTOTAL - LABOR	40.00	32.00	8.00				\$ 1,686.10	\$ 1,860.43
	total hours		40.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)			-	Hr @			\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3			-	Hr @			\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund			-	Hr @			\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund			-	Hr @			\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			32.00	Hr @			\$ 26.50	\$ 848.00
Labor Local 464 Pension & Welfare Fund			8.00	Hr @			\$ 18.85	\$ 150.80
			40.00					
Subtotal - Labor								\$ 2,859.23
Plus 35% of Labor		35%	\$ 2,859.23					\$ 1,000.73
Subtotal - Labor								\$ 3,859.96
Workman's Compensation Ins &								
Liability & Property Damage Ins								
Federal Unemployment Tax								
State Unemployment Tax								
Federal Social Security Tax - Medicare								
Federal Social Security Tax - OASDI								
TOTAL PAYROLL ADDITIVES								438.61
Plus 15% of Payroll Additives								65.79
								504.40
TOTAL LABOR								\$ 4,364.36

Equipment Expenses	29-Mar	Total Hours	Rate	Amount
Foreman Vehicle	2.00	2.00	\$ 34.93	\$ 69.86
CAT 938M Loader	10.50	10.50	\$ 85.92	\$ 902.16
CAT 336	10.50	10.50	\$ 193.98	\$ 2,036.79
Total Equipment Expense				\$ 3,008.81

Equipment Rental/Subcontracted Work	29-Mar	Total Quantity	Unit	Unit Price	Amount
Quad Axle	20.00	20.00	HRS	\$ 108.00	\$ 2,160.00
Equipment Rent / Subcontract Subtotal					\$ 2,160.00
Plus 10% on the 1st \$10,000		10%	\$ 2,160.00		\$ 216.00
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ 2,376.00

Material Used	29-Mar	Total Quantity	Unit	Unit Price	Amount
1.25" DGB (Taken From Stock)	45.68	45.68	TON	\$ 6.50	\$ 296.92
Bank Run (Taken From Stock)	87.42	87.42	TON	\$ 3.00	\$ 262.26
CM-11 3/4" Washed (Taken From Stock)	43.33	43.33	TON	\$ 8.50	\$ 368.31
8" Cap	1.00	1.00	EA	\$ 156.14	\$ 156.14
8" Mega Lug	1.00	1.00	EA	\$ 101.28	\$ 101.28
Subtotal Material					\$ 1,184.91
Plus		15%	\$ 1,184.91		\$ 177.74
Total Material					\$ 1,362.65

Total Labor	\$ 4,364.36
Total Equipment	\$ 3,008.81
Total Subcontract Work	\$ 2,376.00
Total Materials	\$ 1,362.65
Total Bill	\$ 11,111.82

Village of Williams Bay, WI
Monday, April 10, 2023

Chapter 345. Vehicles and Traffic

§ 345-4. Parking restrictions.

A. Restrictions.

- (1) Boat launch parking. No person shall park or leave standing a vehicle or trailer in the boat launch parking lot in a manner that is contrary to the restrictions that the Village Board may impose on the parking of vehicles and trailers and which are listed on the official signs that are posted in that parking lot by the Village of Williams Bay.
- (2) Penalty for violation of § **345-4A(1)** shall be as follows: the penalty provisions of this Code of Ordinances, § **1-4** herein, shall apply except for a violation of § **345-4A(1)** a minimum forfeiture of \$25.

B. Walworth Avenue parking. No person shall park a vehicle on Walworth Avenue between Geneva Street and Cherry Street except at an angle on the east side of the street and parallel to the west side of the street between the marked lines. Parking on Walworth Avenue between Geneva Street and Cherry Street shall be limited to not more than one hour in duration and shall be marked by official "one-hour parking zone" signs.

C. Other regulations.

- (1) Parking meters. When any vehicle is parked in a parking meter zone, the vehicle operator shall deposit or cause to be deposited a coin of the denomination indicated and put such meter in operation. Failure to deposit such coin and put the meter in operation is prohibited.
- (2) One- or two-hour zones. When signs have been erected upon any street indicating that stopping, standing and parking is limited to one hour, limited to two hours or is prohibited during designated hours as specified thereon, no person shall park any vehicle on such street in violation of any such signs.
- (3) Double parking. No operator of any vehicle shall stop, stand or double park in a roadway other than parallel with the edge of curb of the roadway headed in the direction of lawful traffic movement.
- (4) Blocking alley. No operator of any vehicle shall stop, stand or park such vehicle within an alley in such position as to block the driveway or entrance to any abutting property.
- (5) Blocking driveway. No operator of any vehicle shall stop, stand or park at any place where the standing of any vehicle will block the use of any driveway.
- (6) Wrong side of street. No person shall stand or park a vehicle in a roadway other than parallel with the edge of curb of the roadway headed in the direction of lawful traffic movement.
- (7) Winter night parking restrictions. No person shall park, stop or leave standing any vehicle on any Village street between 2:00 a.m. and 6:00 a.m. from November 15 of each year to April 15 of the following year. Signs shall be erected at or reasonably near the corporate Village limits as provided in § 349.13, Wis. Stats., advising of the existence of this subsection. Permission for parking for guests of residents may be granted by the Police Department on a per-night basis for not more than 14 consecutive days for any one person or vehicle. Such permission

may be granted by the Police Department upon a phone notification for not more than three days. If request is made for permission to park for more than three days, applicant shall complete an appropriate application at the Police Department for such purpose.

- (8) Parking during snow emergencies. Whenever the Chief of Police shall, by reason of heavy snow storm or blizzard, proclaim a snow emergency pursuant to § 323.11, Wis. Stats., no person shall park, stop or leave standing any vehicle upon the streets or any portions of the streets during the hours as set forth in the proclamation.
- (9) Fire hydrant. No operator of any vehicle shall stop, stand or park such vehicle at any curb within 10 feet of a fire hydrant.
[Amended at time of adoption of Code (see Ch. 1, General Provisions, Art. II)]
- (10) No-parking zone. No operator of any vehicle shall stop, stand or park at any place where official signs have been erected indicating a no-parking zone.
- (11) Improper parking. No person shall park any vehicle upon a street in such manner or under such conditions as to leave available less than 18 feet of the width of the roadway for free movement of vehicular traffic on a two-way street or less than 10 feet of the width of the roadway for free movement of vehicular traffic on a one-way street.
- (12) Yellow line. No operator of any vehicle shall stop, stand or park in any area along the curbing that has been striped yellow.
- (13) Official signs. No person shall park a vehicle contrary to the notice specified on such sign.
- (14) Parking on crosswalk or intersection. No operator of any vehicle shall stop, stand or park within 15 feet of a crosswalk or intersection, except in a roadway marked with lines designating parking spaces.
- (15) Parking at or opposite fire station. No operator of any vehicle shall stop, stand or park such vehicle at any place within 20 feet of the entrance to any fire station, and on the side of any lot opposite the entrance to any fire station within 75 feet of such entrance.
- (16) Parking on sidewalk. No operator of any vehicle shall stop, stand or park such vehicle on any sidewalk.
- (17) Parking in private parking lot. No person not so entitled shall park a vehicle in a private parking lot unless authorized by order of the custodian.
- (18) Parking in public parking lot. No person shall park a vehicle upon any property owned by a company or the Village and used for the transaction of public business where such parking is prohibited by order of the custodian of such property.
- (19) Parking obstructing traffic. The operator of a vehicle shall not operate such vehicle to allow the same to remain upon any street in such a manner as to form an unreasonable obstruction to the traffic thereon.
- (20) Handicapped parking. Except for a motor vehicle used by a physically disabled person as defined under § 346.503(1), Wis. Stats., no person may park, stop or leave standing any vehicle, whether attended or unattended and whether temporarily or otherwise, upon any portion of a street, highway or parking facility reserved, by official traffic signs indicating the restriction, for vehicles displaying special registration plates issued under § 341.14(1), (1a), (1e), (1m) or (1q), Wis. Stats., or a special identification card issued under § 343.51, Wis. Stats., or vehicles registered in another jurisdiction and displaying a registration plate, card or emblem issued by the other jurisdiction which designates the vehicle as a vehicle used by a physically disabled person. The penalty provisions of this Code, § 1-4 herein, shall apply, except the minimum forfeiture upon conviction of this § **345-4C(20)** shall be \$150 and the maximum forfeiture shall be \$300, together with cost of prosecution.
[Amended at time of adoption of Code (see Ch. 1, General Provisions, Art. II)]

- (21) Semi-tractor, trailer parking. Semitrailers, tractor semitrailers or truck tractors, as defined in § 340.01, Wis. Stats., shall not park on any Village street, except that such vehicles may park on the street for the purpose of loading or unloading and only during such time while actively engaged in loading or unloading the vehicle.
- (22) Payment of municipal fees required. No person shall park or leave standing any vehicle on any street or public parking area belonging to or leased by the Village after having obtained a municipal benefit or a municipal service without first paying the required fee for the use or benefit thereof. The owner of a vehicle involved in a violation of this subsection shall be liable for a violation hereof subject to the defenses to the owner defined and described in § 346.485(5)(b), Wis. Stats. This subsection shall be enforced using the nonmoving traffic violation procedure set forth in § 345.28, Wis. Stats., with the forfeiture to be \$55 for a violation of this subsection.
- (23) Terrace or parkway. No person shall park, stop or leave standing any vehicle or trailer on any Village terrace or parkway where curb and gutter are installed. "Terrace or parkway" is defined as the area between the curb and the sidewalk or, if sidewalk is not installed, the area between the curb and the abutting property line.
- (24) Street maintenance.
 - (a) Whenever it is necessary to maintain, repair or restore a Village street or highway or any part thereof, the Chief of Police shall post appropriate signs bearing the words "No Parking - Street Maintenance Work."
 - (b) Such signs shall be erected at least two hours prior to the time street or highway maintenance, repair or restoration work is to be commenced and shall remain in place until all maintenance, repair or restoration work is completed. The street or highway shall include the berm, shoulder, terrace and all areas within the public right-of-way involved in the maintenance, repair or restoration of the street or highway. No person shall park a motor vehicle in violation of such signs.
- (25) Resident parking lots. No person shall park a vehicle in a parking lot or other parking area marked by official signs indicating that lot or parking area is restricted for use by residents vehicles properly displaying resident parking permits. Resident parking permits shall be affixed to the vehicle for which they are issued in the manner prescribed by the Village at the time of issuance.
- (26) Extended parking of trailers prohibited. No person shall park, stop, or leave standing a trailer as defined by § 340.01(71), Wis. Stats., on any Village street for a period of time in excess of 24 hours.
- D. Parking permitted along Collie Street adjacent to school. Parking in designated parking spots along the west side of Collie Street is permitted during the hours of 7:30 a.m. to 4:30 p.m. during school days from the intersection of Hickory Street north to a point 139 feet south of the intersection of Collie Street and Congress Street.
- E. Removal of illegally parked vehicles.
 - (1) Hazard to public safety. Any vehicle parked, stopped or standing in violation of any of the provisions of this chapter is declared to be a hazard to traffic and public safety.
 - (2) Removal by operator. Such vehicle shall be removed by the operator in charge, upon request of any traffic officer, to a position where parking is permitted or to a private or public parking or storage premises.
 - (3) Removal by traffic officer. Any traffic officer, after issuing a citation for illegal parking, stopping or standing of an unattended vehicle in violation of this chapter, is authorized to remove such vehicle to a position where parking is permitted.

- (4) Removal by private services. The officer may order a motor carrier holding a permit to perform vehicle towing services, a licensed motor vehicle salvage dealer or a licensed motor vehicle dealer who performs vehicle towing services to remove and store such vehicle in any public storage garage or rental parking grounds or any facility of the person providing the towing services.
 - (5) Towing and storage charges. In addition to other penalties provided by this chapter, the owner or operator of a vehicle so removed shall pay the actual cost of moving, towing and storage. If the vehicle is towed by the Police Department, a charge as set forth on a schedule of charges established by the Village Board shall be paid for such towing. If the vehicle is towed or stored by a private motor carrier, motor vehicle salvage dealer or licensed motor vehicle dealer, actual charges regularly paid for such services shall be paid. If the vehicle is stored in a public storage garage or rental facility, customary charges for such storage shall be paid. Upon payment, a receipt shall be issued to the owner of the vehicle for the towing or storage charge.
- F. Registration record of vehicle as evidence. When any vehicle is found in violation of any provision of this chapter regulating the stopping, standing or parking of vehicles and the identity of the operator cannot be determined, the owner as shown by the ownership registration of the vehicle supplied by the Wisconsin Department of Transportation, or a comparable authority of any other state, shall be deemed to have committed the violation for purposes of enforcement of this chapter and shall be subject to the applicable forfeiture penalty; provided, the defenses defined and described in § 346.485(5)(b), Wis. Stats., shall be a defense for an owner charged with such violation.
- G. Removal of parking citations prohibited. No person, other than the owner or operator thereof, shall remove a parking violation or citation from a motor vehicle.



Capital Improvement Planning Model

Wisconsin municipalities face unique fiscal challenges – and you deserve a partner with the experience and understanding to address them. The Public Finance Team at Baird has created the Baird Capital Improvement Planning Model and is committed to providing an annual plan to aid in the decision-making process for annual budget planning that ensures the adequate maintenance, acquisition, and construction of capital projects.

The Baird Capital Improvement Planning Model is a short- and long-term plan for physical development and infrastructure investment within a municipality.

Customized to your municipality, Baird's Capital Improvement Planning Model brings clarity to your municipality's financial planning goals with a comprehensive tool designed to help guide future decisions.

To learn how this valuable tool can serve your municipality, contact Public Finance Specialist Adam Ruechel at 920-433-7373 or aruechel@rwbaird.com.

Why do I need a Capital Improvement Plan?

Utilizing the Baird Capital Improvement Model creates a working blueprint for sustaining and improving communities' infrastructure. The model helps leaders make good planning choices based on specific goals and resources.

Benefits

- Assists municipalities in anticipating needs rather than reacting to problems in the moment.
- Provides leaders time to implement projects gradually opposed to all at once.
- Community/staff involvement throughout the process.
- Provides way to inventory and track current and anticipated capital expenditure needs.
- Provides financially stable approach to spending over multiple year.
- Easy to understand public document to build community support and maintain public trust.
- Positive evaluation factor by credit rating and grant funding agencies.
- Links strategic and comprehensive plans with fiscal capacity.
- Integrates into annual budget process.
- Updated annually.
- Helps determine most economical means of financing a project.

Customized to your municipality, Baird's Capital Improvement Planning Model brings clarity to your municipality's financial planning goals with a comprehensive tool designed to help guide future decisions.

Wisconsin Municipal Business Solutions Team

Brad Viegut
Managing Director
414-298-7540
bviegut@rwbaird.com

Justin Fischer
Managing Director
414-765-3635
jfischer@rwbaird.com

Kevin Mullen
Director
414-765-8709
kmullen@rwbaird.com

Adam Ruechel
Vice President
920-433-7373
aruechel@rwbaird.com



What belongs in a CIP?

In general, the Baird Capital Improvement Planning Model includes the following elements:

- Policy Information
- Plan Summary
- Department Summaries/Justification
- Proposed Plan Funding Sources
- Estimated Project Timelines
- Project Prioritization

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category: General Government
Program/Project Name: Land Acquisition Reserve
Program/Project #: 05/0001-2023-2027

Department: General Government
Contact: Julie
Type: Land
Useful Life: 50 years
Priority: 1 - Maintain/Public Works/Greater than 3 Years
Purpose: New Program/Service

Note: Program/Project Name and # Referenced on Category Sheet.

Description:
Establish Land Acquisition Reserve - no change from prior year.

Justification:
Creation of a Land Acquisition Reserve would set up the Village for the ability to purchase land for Village use or continue creating districts for potential development. Potential future purchases include land for a cemetery.

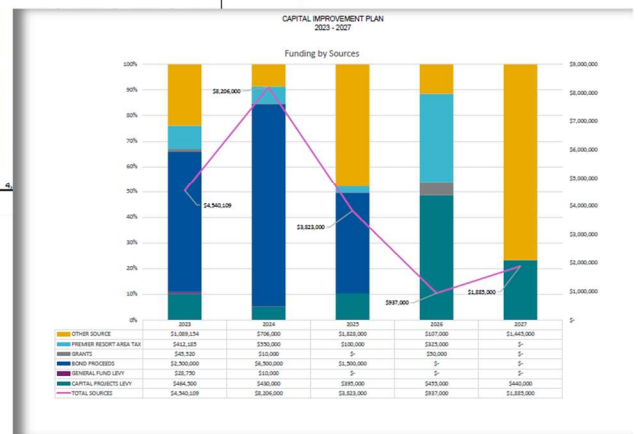
Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Land Acquisition Reserve	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Total	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

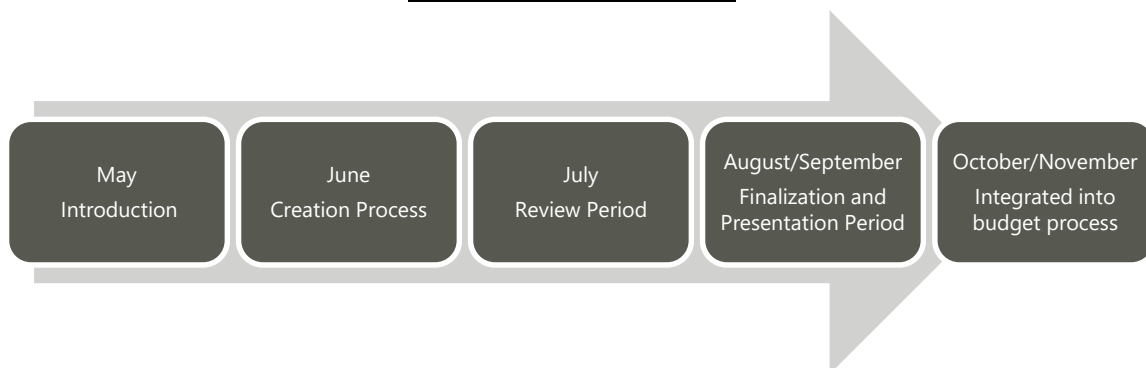
Budget Impact/Other:
Financial Impact to budget of \$25,000 per year. No land acquisition plans in the immediate future.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
SUMMARY OF FUNDS

	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$4,931,993	\$ 4,551,428	\$3,306,684	\$4,386,684	\$3,214,184	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ 464,500	\$ 430,000	\$ 395,000	\$ 455,000	\$ 440,000	\$ 2,184,500
GENERAL FUND LEVY	\$ 26,750	\$ 10,000	\$ -	\$ -	\$ -	\$ 36,750
BOND PROCEEDS	\$ 2,500,000	\$ 6,500,000	\$ 1,500,000	\$ -	\$ -	\$ 10,500,000
GRANTS	\$ 45,520	\$ 10,000	\$ -	\$ 50,000	\$ -	\$ 105,520
PREMIER RESORT AREA TAX	\$ 412,185	\$ 520,000	\$ 100,000	\$ 325,000	\$ -	\$ 1,357,185
OTHER SOURCE	\$ 1,089,134	\$ 706,000	\$ 1,038,000	\$ 107,000	\$ 1,445,000	\$ 5,175,134
TOTAL SOURCES	\$ 4,547,189	\$ 8,276,000	\$ 3,033,000	\$ 937,000	\$ 1,885,000	\$ 19,678,189
TOTAL AVAILABLE FUNDS	\$ 9,479,182	\$ 12,827,428	\$ 6,339,684	\$ 5,323,684	\$ 5,099,184	
USES BY CATEGORY						
General Government & Administration	\$ 125,000	\$ 5,000,000	\$ 500,000	\$ -	\$ -	\$ 5,715,000
Fire	\$ 37,000	\$ 431,994	\$ -	\$ 400,000	\$ -	\$ 868,994
Parks	\$ 2,671,994	\$ 450,000	\$ 85,000	\$ 360,000	\$ 65,000	\$ 3,631,994
Streets	\$ 1,259,680	\$ 2,450,000	\$ 1,000,000	\$ 1,150,000	\$ -	\$ 6,059,680
Library	\$ 40,940	\$ 8,750	\$ -	\$ -	\$ 7,500	\$ 57,190
Ice Rink	\$ -	\$ -	\$ -	\$ -	\$ 1,790,000	\$ 1,790,000
Water	\$ 114,930	\$ 94,000	\$ 84,000	\$ 123,800	\$ 461,750	\$ 678,480
WWTP	\$ 51,010	\$ 144,500	\$ 30,500	\$ 36,600	\$ 5,000	\$ 267,610
	\$ 36,600	\$ 5,500	\$ 5,500	\$ 39,100	\$ 115,000	\$ 201,700
	\$ 571,500	\$ 806,000	\$ 1,038,000	\$ -	\$ -	\$ 2,195,500
	\$ 4,920,674	\$ 9,400,744	\$ 2,743,000	\$ 2,105,500	\$ 2,027,500	\$ 21,197,418
AMCE	\$ 4,551,428	\$ 3,306,684	\$ 4,386,684	\$ 3,214,184	\$ 3,071,804	



Sample Process & Timeline



Wisconsin Municipal Business Solutions Team

Brad Viegut
Managing Director
414-298-7540
bviegut@rwbaird.com

Justin Fischer
Managing Director
414-765-3635
jfischer@rwbaird.com

Kevin Mullen
Director
414-765-8709
kmullen@rwbaird.com

Adam Ruechel
Vice President
920-433-7373
aruechel@rwbaird.com



April 2023

Village of Williams Bay

2024-2028 Capital Improvement Planning ("CIP")

Robert W. Baird & Co. Incorporated

Kevin Mullen
Director
777 East Wisconsin Avenue
25th Floor
Milwaukee, WI 53202
(414) 765-8709
kmullen@rwbaird.com

Adam Ruechel
Vice President
777 East Wisconsin Avenue
25th Floor
Milwaukee, WI 53202
(920) 433-7373
aruechel@rwbaird.com

Discover the *Baird Difference*

Important Disclosures

This Agreement pertains only to general consulting services and expressly does not cover any financial advisory, underwriting or other services that are directly related to any specific financings or offerings. Client understands that the term “financial advisory services” means any financial advisory or consultant services with respect to an issuance of securities, including advice with respect to the structure, timing, terms and other similar matters concerning such issuance.

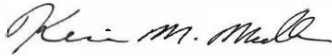
If Client proposes, determines or undertakes to effect an issuance of municipal securities at any time during the term of this Agreement, Client may engage Baird as financial advisor or underwriter with respect to such issuance. If Client determines to so engage Baird and Baird determines to accept such engagement, Client and Baird would enter into a separate written financial advisory or underwriting engagement letter. Client understands that if Baird serves as financial advisor in connection with an offering to be sold at competitive bid Baird will not be able to bid or otherwise underwrite or serve as agent for the placement of the securities. Client also understands that if Baird acts as underwriter on an offering sold on a negotiated basis Baird may not also serve as financial advisor on that offering but, in the course of acting as underwriter, may render advice to Client, including advice with respect to the structure, timing, terms and other similar matters concerning the offering. Client further understands that Baird’s primary role as underwriter would be to purchase, or arrange the placement of, securities in an arm’s-length commercial transaction between Client and Baird and that Baird, as underwriter, would have financial and other interests that differ from those of Client.

Introduction

Dear Mr. Lothspeich:

On behalf of Robert W. Baird & Co. Incorporated (“Baird” or the “Firm”) I am pleased to present our credentials to provide the Village of Williams Bay (the “Village”) with assistance in the development of a Capital Improvement Plan. Baird and everyone assigned to serve the Village, collectively understand and are committed to perform the services outlined within the scope of services.

We sincerely appreciate the opportunity to continue to serve the Village.



Kevin Mullen
Director
(414) 765-8709
kmullen@rwbaird.com

About Baird

Firm Overview. Baird was founded in 1919 through the merger of two fixed income bond desks in Milwaukee, Wisconsin, where our headquarters remains. Our corporate structure includes five core businesses that provide fixed income markets (public finance and fixed income sales and trading), private wealth management, investment banking, private equity, and asset management services across the country. Baird is also a premier investment banking, private equity, and equity sales and trading partner to corporations and institutional clients around the world. ***Employee-owned, conservatively managed and operating the five diverse financial businesses mentioned above, we are able to maintain balanced revenues and grow in multiple market cycles, even in environments where other firms were forced to cut back or become absorbed by larger entities.***

Wisconsin-based Firm. Our Wisconsin presence includes 16 offices and nearly 1,900 full-time associates. Baird offers the largest public finance team in the state with dedicated experts in the areas of banking, analytics, official statement preparation and execution, and the municipal market. Our Wisconsin presence includes more than 30 dedicated public finance associates. We all share in the responsibility and are ready to deploy our services to provide support, guidance, and execution resulting in optimal results for our clients.

Baird is the **No. 1 underwriter of municipal bonds in the nation collectively since 2009** and for **past 22 consecutive years in Wisconsin** by number of issues. Additionally, Baird ranks among the top Municipal Advisors in the state based on both number of issues and par amount.¹ Baird is committed to serving local government in Wisconsin and has substantial market immersion throughout the State.

¹ Source: Ipreo MuniAnalytics as of December 31, 2022. Does not include Private Placements or Notes.

Scope of Services - Development of a Capital Improvement Plan ("CIP")

Baird offers customized services and cost-effective tools tailored to meet the evolving needs of Wisconsin Municipalities. The purpose of this engagement is to assist the Village of Williams Bay in developing a Capital Improvement Plan that will provide an effective planning tool for evaluating and prioritizing capital projects.

Scope of Services. Baird shall provide the following general consulting services to Client as requested by Client:

- Facilitate and Coordinate the CIP development and creation
- Develop and Review CIP Threshold Policy
- Develop CIP Introduction Narrative and Benefits
- Develop CIP Creation and Planning Process Timeline (Draft timeline can be found in Exhibit I)
- Assist in the development of the CIP, Fixed Asset Listing, Priority Rankings
- Attend and meet with department staff and elected officials during CIP development
- Provide CIP Component Templates (including but not limited to Summary of Funds, Funding Sources and Uses Graphical Charts, Sources and Uses by Department, Program and/or Project Description & Justification, Beyond 5-Year Period)
- Attend public meetings (in person or electronically) to present the CIP
- Attend governing body CIP adoption meeting
- Annual CIP Support

Compensation and Terms of Payment. For the general consulting services provided hereunder, Baird shall receive the following compensation: A fixed fee equal to \$5,000 payable within 10 business days upon completion of the Scope of Work as outlined above. The Client shall have the option to have Baird annually update the CIP at an annual rate of \$750 per year, payable by December 31st in the year of the update.

Baird will be responsible for paying all out-of-pocket costs and expenses it incurs that relate to the general consulting services it provides hereunder.

Resumes of Assigned Individuals

Kevin Mullen, Director

(414) 765-8709 | kmullen@rwbaird.com

With more than 30 years of experience in the municipal bond industry, Kevin has built an extensive resume in municipal financing across the State of Wisconsin. He has provided tax-exempt financings for all types of municipal entities and has assisted more than 100 communities in meeting their capital needs. Kevin has provided issuers with greater flexibility and interest cost savings by developing structuring and defeasance techniques. He also helped create a cash flow management program that allowed dozens of school districts in the State to efficiently address their cash flow needs. He earned his Bachelor of Science in Business Administration with a specialization in Finance from Marquette University and is licensed through the Financial Industry Regulatory Authority (FINRA) as a Municipal Advisor Representative (Series 50), Municipal Securities Representative (Series 52), and as a Uniform Securities Agent (Series 63).

Adam Ruechel, Vice President

(920) 433-7373 | aruechel@rwbaird.com

Adam joins Baird with more than 16 years serving in Wisconsin's public and private sectors. After spending several years as a workforce management and then financial analyst in Green Bay, he became

the Assistant to the Administrator for the Village of Hobart in 2016 and then Village Administrator and Treasurer for the Village of Marshall in 2017. Adam more recently served as the Platteville City Manager, where he implemented a five-year capital improvement planning process, developed a long-range staffing plan and advanced the city's TIF districts and economic development strategies. He also recruited an additional broadband provider for the city, fostered public-private partnerships that resulted in an inclusive playground and an eight-court pickleball complex and developed a number of community promotional initiatives, including the Platteville Pickaxe and Living Local and Loving It video series and the return of Taste of Platteville. Born and raised in Green Bay, Wisconsin, Adam earned bachelor's degrees in political science and public administration from the University of Wisconsin-Green Bay and in accounting from Rasmussen University.

Emily Timmerman, Senior Vice President

(414) 298-7856 | etimmerman@rwbaird.com

Emily joined Baird's Milwaukee public finance office in 2013. In her role as a support banker, Emily is directly responsible for the management of transactions from inception to settlement. This includes assisting with the development of complex financing plans utilizing both taxable and tax-exempt general obligation and revenue bonds, compilation of outstanding debt tables, official statement review, and all activities related to coordinating the successful "closing" for each municipal offering. Additional experience includes the development of long-term capital improvement plans and refinancing structures both, advance and current refundings of tax-exempt and taxable debt as well as Tax Incremental District financial analysis. Emily received her Bachelor of Business Administration in Finance from the University of Wisconsin-Platteville. She is licensed through the Financial Industry Regulatory Authority (FINRA) as a Municipal Advisor Representative (Series 50), Municipal Securities Representative (Series 52), and as a Uniform Securities Agent (Series 63).

Exhibit I - 2024-2028 Capital Improvement Planning ("CIP") Proposed Timeline

May: CIP Introduction

- Organize all parties involved: Department Heads/Staff and Elected Officials
- Village Treasurer, Village Administrator, and Baird will coordinate with participants and define responsibilities to begin the process of compiling the CIP.
- Give departments 2024-2028 CIP template forms for consistency and uniformity throughout

May/June: CIP Creation Process

- Identify the needs for facilities/programs/projects, the timing, costs (uses) and means of financing (sources) for each.
- Set priorities/rankings/justifications/budget impacts for each identified CIP program and project.
- Use of CIP template forms for consistency and uniformity
- Review Established Policies: CIP Threshold; Complete Fixed Asset Inventory with useful lives/life remaining; Disposal of Equipment
- Review fixed asset replacement schedule & adequately funded equipment/building replacement fund
- Estimate funding impact on tax levy and enterprise funds.

July:

- CIP Data due to Village Treasurer and Village Administrator for compilation and then, following review, given back to departments for review and discussion with their respective Standing Committees.

August/September:

- Distribution to Government Leaders
- Review and comment on recommended projects and priorities through Standing Committee meetings
- Board review and approval of CIP with adoption of first year's projects as a capital budget item in the proposed annual budget
- Full CIP used as a tool to create integrated financial plan which identifies finalized projects to be included in annual budget process and adoption.

October:

- Budget adoption w/CIP
- Coordinate with Rating Agency & Bond Counsel, as needed, to support debt issuance for projects.

VILLAGE OF SISTER BAY, WISCONSIN



2023 - 2027 CAPITAL IMPROVEMENT PLAN

PROPOSED ADOPTION OCTOBER 18, 2022

CAPITAL IMPROVEMENT PLAN TABLE OF CONTENTS

INTRODUCTION/INSTRUCTIONS.....SECTION 1

POLICY INFORMATION.....SECTION 2

SUMMARY INFORMATION.....SECTION 3

DEPARTMENT SUMMARIES / JUSTIFICATIONS.....SECTION 4

PROPOSED BUDGET FUNDING.....SECTION 5

BEYOND 2027.....SECTION 6

CAPITAL IMPROVEMENT PLAN INTRODUCTION/INSTRUCTIONS

VILLAGE OF SISTER BAY, WI
Long Range Capital Improvement Planning (CIP)
Introduction / Instruction Manual

CIP Introduction

- This is an essential management tool for Sister Bay to utilize in planning for Capital Improvements over multiple years.
 - Allows room for forward thought and discussion
 - Better prepares Sister Bay for change
 - Creates opportunities that may otherwise be overlooked
- Sister Bay is faced with increasing Expenditures and limitations on Revenues.
 - Creative solutions must be developed to meet these demands
 - Long-range planning is key to Sister Bay's success
 - Funding sources and uses are matched over a multiple year timeframe rather than just one year
- Integrates Capital Improvement Planning (CIP) into annual Budget process.
 - CIP is initial step in annual budget process
 - Operational – Staffing, organizational structure, systems (70-80% of annual budget)
 - Capital – Infrastructure, maintenance and equipment

Benefits of a CIP

- More efficient administration -Assists in making better decisions in how Sister Bay is spending resources in coming years
- Administration/Departmental involvement in planning and prioritizing projects/programs with available funding
- Provides a disciplined and financially stable approach to spending over multiple years
- Provides a way to plan financing of infrastructure projects and equipment purchases
 - Detailed list of projects and funding sources
 - Project descriptions with justifications/rational
- Facilitates the planning and funding of a program
- Public document to obtain community support and keep citizens informed on current needs and future projects
- Focuses attention on objectives and financial capabilities/affordability
 - Identifies most economical means of financing capital projects
 - CIP used by financial advisors to structure and time a capital financing plan borrowing
 - CIP avoids drastic changes in debt service payments
- Positive evaluation factor by credit rating agencies and independent auditors

Capital Improvement Threshold Policy

- Individual tangible capital-type items should be capitalized only if they have a minimum value of **\$5,000** and have an estimated **useful life of more than one year** following the date of acquisition
- The capitalization threshold is to be applied to individual items rather than to groups of similar items (e.g., desks and tables)

Capital Improvement Planning Process

- Establish timeline: Spring-Summer-Fall-Nov/Dec Budget Adoption
- Village Administrator/Finance Director coordinates and defines Department responsibilities
- Letter/Memo to begin process of compiling or reviewing the CIP: Sample CIP templates for use/update
- Organize all parties involved: Dept. Heads/Staff; Elected Officials (involve early); and public citizens
- Policies: CIP Threshold; Complete Fixed Asset Inventory w/Useful lives/life remaining; Disposal of Equipment
- Develop fixed asset replacement schedule & a adequately funded equipment/building replacement fund
- Identify the needs for facilities/programs/projects, the timing, costs (uses) and means of financing (sources) for each
 - Use of CIP template forms for consistency and uniformity
- Set priorities/rankings/justifications/budget impacts for each identified CIP program and project
- Prepare financial proforma forecast analysis for a range of years showing Sister Bay's capacity to afford the CIP
- Execute the plan -Seek review and comment by the public
- Coincide w/Annual budget process: Incorporate first year's CIP programs/projects into proposed annual budget
- Review the capital improvement program annually

Sister Bay CIP Process/Timeline

May: CIP Introduction

Organize all parties involved: Dept. Heads/Staff and Elected Officials

Tasha, and Brian Ruechel (Baird) will coordinate with participants and define responsibilities to begin the process of compiling the CIP

Give Depts. 2022-2026 CIP forms & 2023-2027 CIP template forms for consistency and uniformity throughout

May/June: CIP Creation Process

Identify the needs for facilities/programs/projects, the timing, costs (uses) and means of financing financing (sources) for each

Set priorities/rankings/justifications/budget impacts for each identified CIP program and project

Use of CIP template forms for consistency and uniformity

Review Established Policies: CIP Threshold; Complete Fixed Asset Inventory w/Useful lives/life remaining;

Disposal of Equipment

Review fixed asset replacement schedule & adequately funded equipment/building replacement fund

July:

CIP Data due to Tasha for compilation and then, following review, given back to departments for review and discussion with their respective standing committees: (Administration, Finance, Parks & Streets, Fire District, Library, Marina, Utilities)

August/September:

Distribution to Gov't Leaders

Review and comment on recommended projects and priorities through standing committee meetings

Board review and approval of CIP with adoption of first year's projects as a capital budget item in the proposed annual budget

Full CIP used as a tool in the annual budget process and adoption

October:

Budget adoption w/CIP

Discussions/Planning with Financial Advisors & Bond Counsel for debt issuance to finance projects

Submit to Rating Agency to assist with Bond Rating Analysis

CIP Components (Tabs)

Funding Sources Chart

This worksheet graphically shows the funding sources detailed on the bottom of the chart for each CIP year. The chart is automatically generated by the data contained on the summary of funds worksheet.

Uses by Category Chart

This worksheet graphically shows the uses by category detailed on the right side of the chart for each CIP year. The chart is automatically generated by the data contained on the summary of funds worksheet.

Summary of Funds

This worksheet summarizes the estimated beginning and ending fund balance, individual funding sources, and individual uses by category for each CIP year. The worksheet is automatically generated by combining data contained on each individual category worksheet.

Category Worksheets

A worksheet is created for each individual CIP category. All cells with a black text need user input and all cells with a blue text have a numeric formula which users cannot change. The user will need to type in a name at the top of each category tab on line 4 for that category to show properly on the summary and chart tabs. The first year estimated or actual beginning fund balance for the category needs to be entered. The combined totals of sources and uses will be calculated from individual project/program worksheets for each CIP year. The user needs to insert the required number of program/project lines for each individual CIP category. Formulas from the program or project description & justification tabs are then created for each individual program/project name and the year by year totals. When the worksheet is printed on a black and white printer it will display all cells in the same color.

Program or Project Description & Justification

A worksheet is completed for each CIP project or program. The program or project is identified by category, name, and number. Department, contact, type, useful life, priority, and purpose are also available for identification. A narrative description and justification are required for the program or project. For each CIP year, the program or project total expenditure (uses) and funding sources (detailed by type) are entered in the black text cells. Blue text cells have a numeric formula which users cannot change. A narrative budget impact and other relevant information are required at the bottom of the worksheet.

Drop-down menus are available for selection of priority, purpose, and funding sources.

Upon completion of the worksheet, the program or project category name, identification number, uses and funding sources will be transferred by manually creating a formula to the individual category tab created by the user.

Proposed Budget Funding

This worksheet gives a detailed listing of the individual program or project for the proposed budget year by category, identification number, priority ranking, and purpose. The data entered in these columns will be from the program and project worksheet. The individual line item is then identified by the requested, defunded, and final budget dollar amount. The budgeted dollar amounts will tie back to the requested, defunded, and budget columns found on the individual category worksheet uses by category section.

Beyond 5-Year Period

This worksheet details individual program and project by category that are beyond the 5-Year CIP timeline. The year planned, ranking criteria, purpose, and estimated cost are identified.

A drop-down menu is available for the ranking criteria and purpose.

CAPITAL IMPROVEMENT PLAN POLICY INFORMATION

**VILLAGE OF SISTER BAY
FINANCIAL POLICIES/PROCEDURES**

Capital Asset Policy

- Purpose:** The purpose of this policy is to establish a consistent methodology for recording in the financial records of the Village of Sister Bay ("Village"), the capitalization and depreciation of capital assets, consistent with current reporting requirements as determined by the State of Wisconsin and the Governmental Accounting Standards Board ("GASB").
- General:** The Village of Sister Bay holds certain capital assets which include land, buildings, building improvements, vehicles, machinery, equipment, docks and piers, furniture, appliances, infrastructure, and all other tangible or intangible assets, that are used in operations and that have initial useful lives extending beyond a one-year period.
- These assets must be accounted for at historical cost or estimated historical cost and be fairly represented in the Village of Sister Bay's Annual Financial Report.
- Valuation:** All costs shall be documented, including methods and sources used to establish such cost basis.
1. Purchased assets: the recording of purchased assets shall be made on the basis of actual costs, including all ancillary costs, based on the vendor invoice or other supporting documentation.
 2. Self-constructed assets: all direct costs (including labor) associated with the construction project shall be included in establishing a self-constructed asset valuation. If a department is unable to identify all direct costs, an estimate of the direct cost is acceptable but must be supported by a reasonable methodology.
 3. Donated assets: assets acquired by gift, donation, or payment of a nominal sum not reflective of the asset's fair market value shall be assigned a cost equal to the fair market value at the time of acquisition.
 4. Leased property: capital lease property shall be recorded as an asset and depreciated as though it had been purchased.
 5. Dedicated assets: requires installation by developers of public improvements, including but not limited to sanitary sewer mains,

manholes, laterals, water mains, hydrants, valves, storm and sanitary sewers, streets, curb and gutter, streetlights, street signs, sidewalks will be dedicated to the Village upon completion. Recording of infrastructure assets will be made on the basis of actual costs, including ancillary costs, based on vendor invoice or other supporting documentation provided by the developer.

6. Shared purchases: assets shared with other municipalities or entities shall be made based on the Village's share of actual costs, including ancillary costs, based on vendor invoice or other supporting documentation.

Ancillary costs: Ancillary costs are to be included in the capitalized cost of a fixed asset. However, minor costs, not measurable at the time a fixed asset is recorded in the Village's fixed asset inventory system, may be expensed.

Ancillary costs include:

- Buildings and Improvements: professional fees of architects, attorneys, appraisers, financial advisors, etc.; damage claims; costs of fixtures permanently attached to a building or structure; insurance premiums and related costs incurred during construction; and other expenditures necessary to place a building or structure into its intended state of operation.
- Equipment: transportation charges, installation costs, and any other normal and necessary expenditures required to place the asset into its intended state of operation.
- Land: legal and title fees, surveying fees, appraisal and negotiation fees, damage payments, site preparation costs, and costs related to demolition of unwanted structures.

Classification: Capital assets include items with useful lives greater than one year, land, land improvements, buildings, building improvements, construction work in progress, machinery and equipment, vehicles, infrastructure, easements, and works of art and historic treasures. A capital asset is to be reported and, with certain exceptions, depreciated in government-wide statements. Assets that are not capitalized are expended in the year of acquisition.

Infrastructure assets are long-lived assets that normally can be preserved for a significantly greater number of years than most capital assets and that are normally stationary in nature. Examples include roads, bridges, tunnels, drainage systems, water systems, and dams. Infrastructure assets do not include buildings, drives, parking lots, or any other examples given above that are incidental to property or access to the property.

Long-term assets can be classified into the following:

- Furniture and equipment: office furniture; office, data processing, and special department equipment
- Vehicles and equipment: vehicles, operating and mechanical equipment
- Land: land, land improvements
- Buildings: buildings, building improvements
- Infrastructure: streets, bridges, water and sewer systems, drainage systems, sidewalks, curb and gutter, etc.

Capitalization: Capital asset value thresholds for capitalization are to be applied to individual capital assets rather than to groups of similar capital assets. Capital assets must have an initial value of \$5,000 or more. This will be known as the "capitalization threshold" for reporting purposes in the Annual Financial Report. The Water and Sewer Utilities will follow capitalization guidelines as established by the Wisconsin Public Service Commission.

Repair and maintenance costs are expenditures that keep the property in ordinary efficient operating condition. The cost of the repair does not add to the value or prolong the life of the asset. All repair and maintenance costs to capital assets are to be treated as an annual operating expense and charged to the appropriate department and fund.

Improvements are expenditures for additions, alterations, and renovations that appreciably prolong the life of the asset, materially increase its value, or adapt it to a different use. Improvement costs of \$5,000 or more to an individual capital asset are to be capitalized.

Depreciation: All long-term assets (except for land, certain land improvements, and construction in progress) identified in the capital assets policy will be depreciated/amortized. Regardless of the month the asset is placed in service, a full year of depreciation/amortization will be recorded in the first year. Once the asset has been fully depreciated, the asset will be kept on the books until disposed of. When the asset is disposed of prior to the end of its useful life, the remaining "book" value will be written off as depreciation unless it will materially affect the Village's financial statements.

The water utility will follow guidelines for depreciation as established by the Wisconsin Public Service Commission.

Useful Life: To determine the useful life of an asset for depreciation purposes, the Village shall consider an asset's present condition and how long it is expected to meet its service demands in addition to applying applicable industry standards for useful life.

Inventory: An inventory of all long-term assets should be reviewed and updated annually.

Capital Assets Policy
Developed: May 2021
Adopted: May 2021

CAPITAL IMPROVEMENT PLAN SUMMARY INFORMATION

Components

Summary of Funds

This worksheet summarizes the estimated beginning and ending fund balance, individual funding sources, and individual uses by category for each CIP year. The worksheet is automatically generated by combining data contained on each individual category worksheet.

Funding Sources Charts

These graphically show the funding sources detailed on the bottom of the charts for each CIP year. The charts are automatically generated by the data contained on the summary of funds worksheet.

Uses by Category Charts

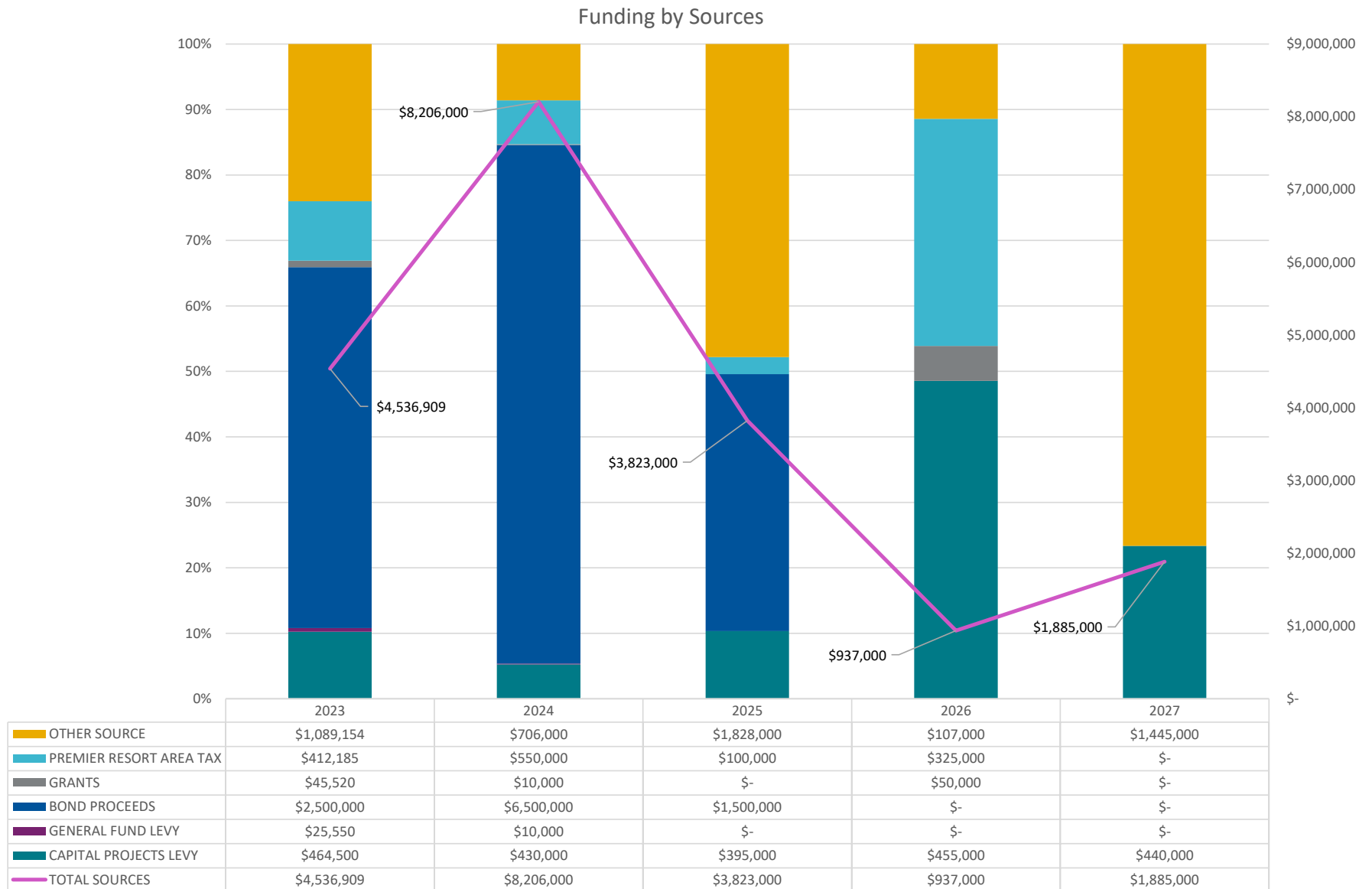
These graphically show the uses by category detailed on the bottom of the charts for each CIP year. The charts are automatically generated by the data contained on the summary of funds worksheet.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
SUMMARY OF FUNDS**

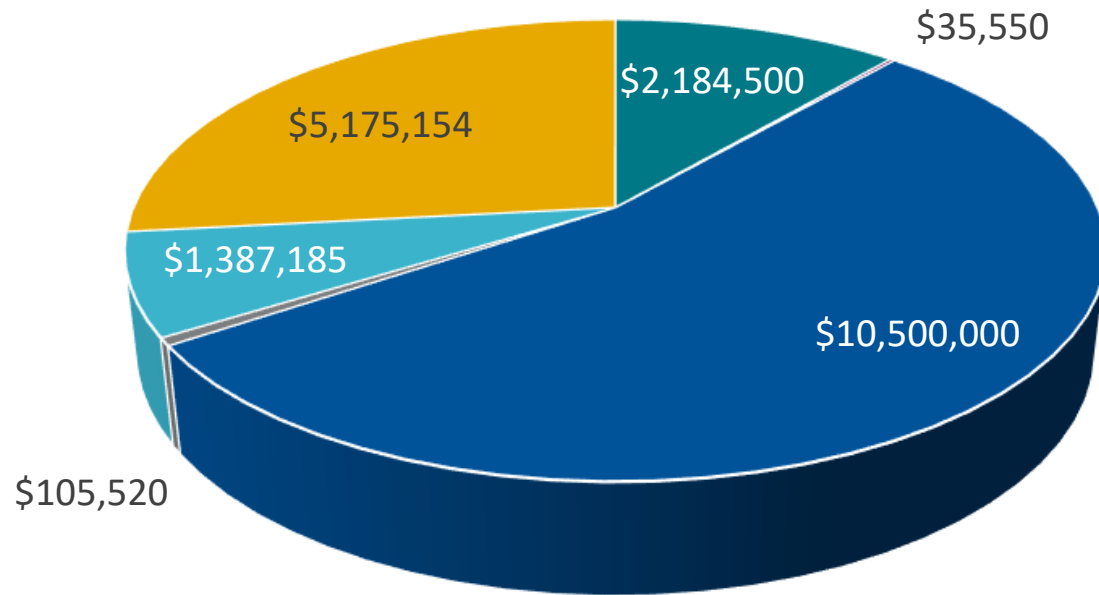
	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$4,931,993	\$ 4,551,428	\$3,306,684	\$4,386,684	\$3,214,184	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ 464,500	\$ 430,000	\$ 395,000	\$ 455,000	\$ 440,000	\$ 2,184,500
GENERAL FUND LEVY	\$ 25,550	\$ 10,000	\$ -	\$ -	\$ -	\$ 35,550
BOND PROCEEDS	\$ 2,500,000	\$ 6,500,000	\$ 1,500,000	\$ -	\$ -	\$ 10,500,000
GRANTS	\$ 45,520	\$ 10,000	\$ -	\$ 50,000	\$ -	\$ 105,520
PREMIER RESORT AREA TAX	\$ 412,185	\$ 550,000	\$ 100,000	\$ 325,000	\$ -	\$ 1,387,185
OTHER SOURCE	\$ 1,089,154	\$ 706,000	\$ 1,828,000	\$ 107,000	\$ 1,445,000	\$ 5,175,154
TOTAL SOURCES	<u>\$ 4,536,909</u>	<u>\$ 8,206,000</u>	<u>\$ 3,823,000</u>	<u>\$ 937,000</u>	<u>\$ 1,885,000</u>	<u>\$ 19,387,909</u>
TOTAL AVAILABLE FUNDS	<u>\$ 9,468,902</u>	<u>\$ 12,757,428</u>	<u>\$ 7,129,684</u>	<u>\$ 5,323,684</u>	<u>\$ 5,099,184</u>	
USES BY CATEGORY						
General Government & Administration	\$ 135,000	\$ 5,080,000	\$ 500,000	\$ -	\$ 250,000	\$ 5,965,000
Fire	\$ 37,000	\$ 431,994	\$ -	\$ 400,000	\$ -	\$ 868,994
Parks	\$ 2,668,794	\$ 450,000	\$ 85,000	\$ 360,000	\$ 65,000	\$ 3,628,794
Streets	\$ 1,259,680	\$ 2,650,000	\$ 1,000,000	\$ 1,150,000	\$ -	\$ 6,059,680
Library	\$ 40,940	\$ 8,750	\$ -	\$ -	\$ 7,500	\$ 57,190
Ice Rink	\$ -	\$ -	\$ -	\$ -	\$ 1,790,000	\$ 1,790,000
Water	\$ 114,950	\$ 94,000	\$ 84,000	\$ 123,800	\$ 45,000	\$ 461,750
WWTP	\$ 51,010	\$ 144,500	\$ 30,500	\$ 36,600	\$ 5,000	\$ 267,610
Collection	\$ 38,600	\$ 5,500	\$ 5,500	\$ 39,100	\$ 115,000	\$ 203,700
Marina	\$ 571,500	\$ 586,000	\$ 1,038,000	\$ -	\$ -	\$ 2,195,500
TOTAL USES BY CATEGORY	<u>\$ 4,917,474</u>	<u>\$ 9,450,744</u>	<u>\$ 2,743,000</u>	<u>\$ 2,109,500</u>	<u>\$ 2,277,500</u>	<u>\$ 21,498,218</u>
EST. ENDING FUND BALANCE	<u>\$ 4,551,428</u>	<u>\$ 3,306,684</u>	<u>\$ 4,386,684</u>	<u>\$ 3,214,184</u>	<u>\$ 2,821,684</u>	

Beginning Fund Balance					
General Government & Administration					
Land Acquisition	\$ 25,000	\$ 50,000	\$ 75,000	\$ 100,000	\$ 125,000
Facilities/Buildings	\$ 249,049	\$ 149,049	\$ 149,049	\$ 149,049	\$ 149,049
Information Technology/Software	\$ 25,548	\$ 548	\$ 548	\$ 548	\$ 548
Wayfinding Signage	\$ -	\$ 50,000	\$ 100,000	\$ 150,000	\$ 200,000
Fire	\$ 644,809	\$ 774,809	\$ 472,815	\$ 602,815	\$ 332,815
Parks					
Vehicle Reserve	\$ 19,428	\$ 7,428	\$ 7,428	\$ 7,428	\$ -
Equipment Reserve	\$ 13,974	\$ 13,974	\$ 13,974	\$ 113,974	\$ -
Parks Reserve	\$ 65,142	\$ 47,642	\$ 47,642	\$ 47,642	\$ 4,044
Facilities	\$ 150,000	\$ 300,000	\$ -	\$ -	\$ -
Streets	\$ 974,879	\$ 847,879	\$ 247,879	\$ 1,097,879	\$ 272,879
Library	\$ 15,000	\$ 4,060	\$ 310	\$ 5,310	\$ 10,310
Ice Rink	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 175,000
Water	\$ 792,106	\$ 770,906	\$ 756,906	\$ 742,906	\$ 726,106
WWTP	\$ 953,495	\$ 908,985	\$ 864,485	\$ 833,985	\$ 797,385
Collection	\$ 234,563	\$ 195,963	\$ 190,463	\$ 184,963	\$ 145,863
Marina	\$ 694,000	\$ 355,185	\$ 305,185	\$ 275,185	\$ 275,185
Total Beginning Fund Balance	\$ 4,931,993	\$ 4,551,428	\$ 3,306,684	\$ 4,386,684	\$ 3,214,184

CAPITAL IMPROVEMENT PLAN 2023-2027

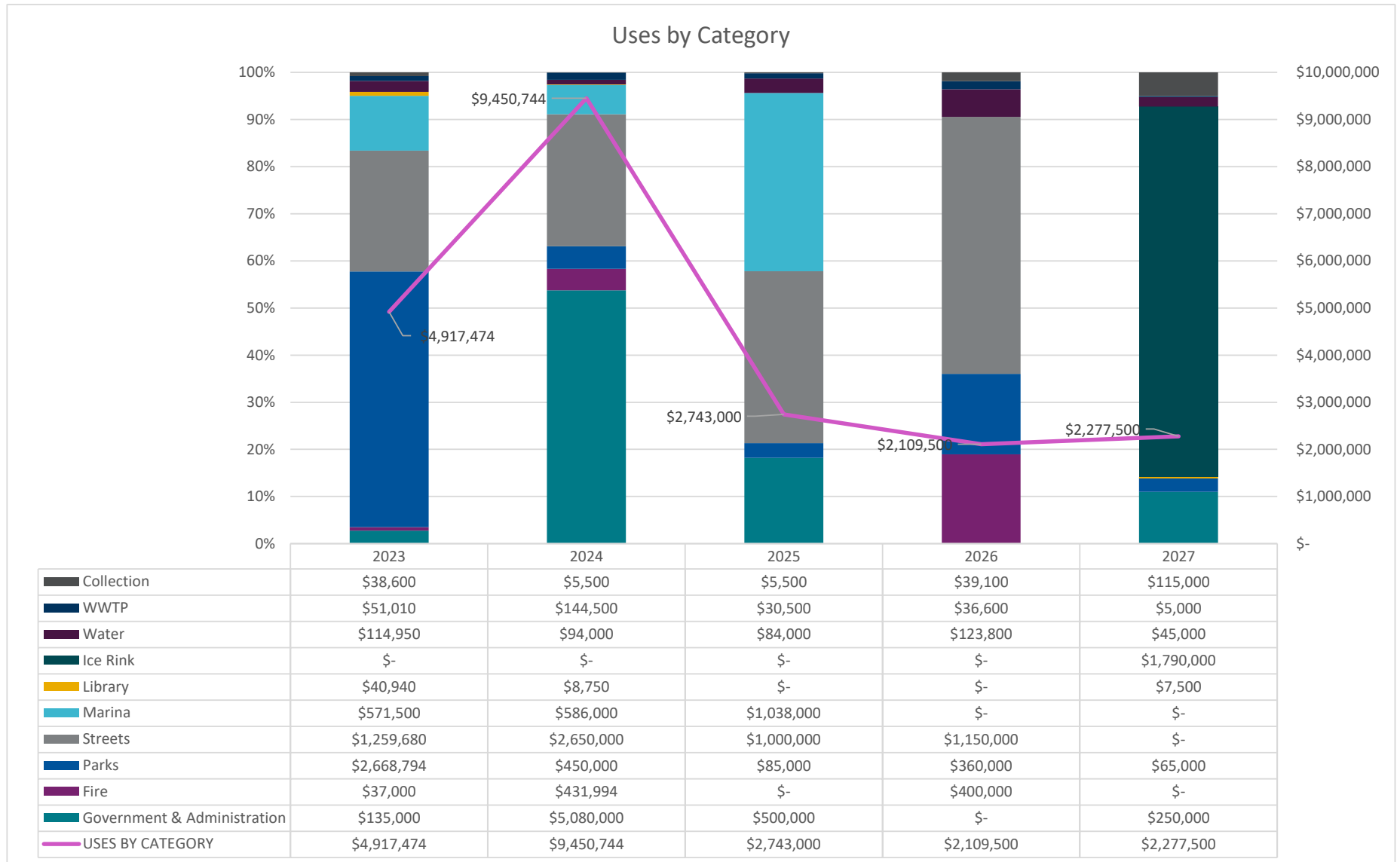


Funding by Sources



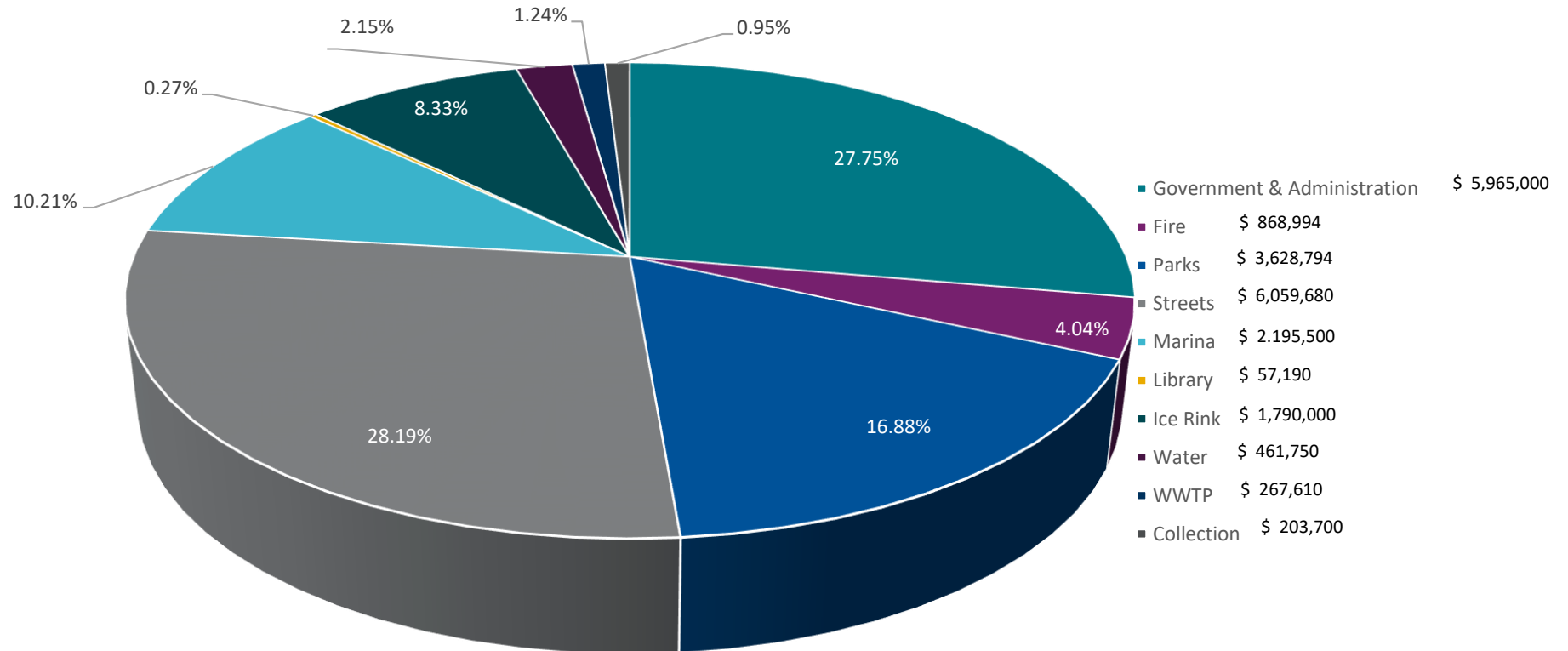
- CAPITAL PROJECTS LEVY
- GENERAL FUND LEVY
- BOND PROCEEDS
- GRANTS
- PREMIER RESORT AREA TAX
- OTHER SOURCE

CAPITAL IMPROVEMENT PLAN 2023-2027



CAPITAL IMPROVEMENT PLAN
2023-2027

Uses by Category



CAPITAL IMPROVEMENT PROGRAM DEPARTMENT SUMMARIES / JUSTIFICATIONS

Department Summary Categories

A worksheet is created for each individual CIP Department with sources and uses categories. The first year estimated or actual beginning fund balance for the category needs to be entered. The combined totals of sources and uses will be calculated from individual project/program worksheets for each CIP year.

Program or Project Description & Justification

A worksheet is completed for each CIP project or program. The program or project is identified by category, name, and number. Department, contact, type, useful life, priority, and purpose are identified. A narrative description and justification are required for the program or project. A narrative budget impact and other relevant information are required at the bottom of the worksheet.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
General Government & Administration

	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$ 299,597	\$ 249,597	\$ 324,597	\$ 399,597	\$474,597	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ 85,000	\$ 145,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 455,000
GENERAL FUND LEVY	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000
BOND PROCEEDS	\$ -	\$ 5,000,000	\$ 500,000	\$ -	\$ -	\$ 5,500,000
GRANTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PREMIER RESORT AREA TAX	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER SOURCE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL SOURCES	<u>\$ 85,000</u>	<u>\$ 5,155,000</u>	<u>\$ 575,000</u>	<u>\$ 75,000</u>	<u>\$ 75,000</u>	<u>\$ 5,965,000</u>
TOTAL AVAILABLE FUNDS	<u>\$ 384,597</u>	<u>\$ 5,404,597</u>	<u>\$ 899,597</u>	<u>\$ 474,597</u>	<u>\$ 549,597</u>	
USES BY PROGRAM/PROJECT						
Land Acquisition Reserve	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Village Hall Future	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Village Website Design	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000
Wayfinding Signage	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 250,000
Administration Building	\$ -	\$ 5,000,000	\$ -	\$ -	\$ -	\$ 5,000,000
Village Server	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000
IT Update	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000
Post Office Building	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000
TOTAL USES BY PROJECT	<u>\$ 135,000</u>	<u>\$ 5,080,000</u>	<u>\$ 500,000</u>	<u>\$ -</u>	<u>\$ 250,000</u>	<u>\$ 5,965,000</u>
EST. ENDING FUND BALANCE	<u>\$ 249,597</u>	<u>\$ 324,597</u>	<u>\$ 399,597</u>	<u>\$ 474,597</u>	<u>\$ 299,597</u>	
Starting fund balance						
Land Acquisition	\$ 25,000	\$ 50,000	\$ 75,000	\$ 100,000	\$ 125,000	
Facilities/Buildings	\$ 249,049	\$ 149,049	\$ 149,049	\$ 149,049	\$ 149,049	
Information Technology/Software/Systems	\$ 25,548	\$ 548	\$ 548	\$ 548	\$ 548	
Wayfinding Signage	\$ -	\$ 50,000	\$ 100,000	\$ 150,000	\$ 200,000	
	\$ 299,597	\$ 249,597	\$ 324,597	\$ 399,597	\$ 474,597	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	General Government
Program/Project Name:	Land Acquisition Reserve
Program/Project #:	GENERAL1-2023-2027

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	General Government
Contact:	Julie
Type:	Land
Useful Life:	50 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	New Program/Service

Description
Establish Land Acquisition Reserve - no change from prior year.

Justification
Creation of a Land Acquisition Reserve would set up the Village for the ability to purchase land for Village use or continue creating districts for potential development. Potential future purchases include land for a cemetery.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Land Acquisition Reserve	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000
Total	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 25,000	\$ 125,000

Budget Impact/Other
Financial Impact to budget of \$25,000 per year. No land acquisition plans in the immediate future.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	General Government
Program/Project Name:	Village Hall Future
Program/Project #:	GENERAL2-2023

Department:	General Government
Contact:	Dan Klansky
Type:	Facilities
Useful Life:	0 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Years
Purpose:	Current Equipment Obsolete

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Use of funds to determine path forward for Village Hall - demolition or remodel/repair.

Justification
Dated building, rental is not optimal. Elevator breaks down frequently and needs replacement. Ceiling is falling down. Kitchen needs updating. Restrooms need updating and ADA compliance. Heating system is old oil and is expensive. Building needs new windows and changes for energy efficiency. No parking available. Needs ADA entrances and spaces. Building has been minimally maintained. Annual costs for building are \$15,000-20,000 of which about \$2500 is for improvements/maintenance items, and this cost does not include insurance. Insurance is approximately \$650 per year.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Village Hall Future	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000
Total	\$ 100,000	\$ -	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial Impact to budget of \$100,000 in 2023 for expense with funding coming from existing capital reserve funds for facilities.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	General Government
Program/Project Name:	Village Website Design
Program/Project #:	GENERAL3-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	General Government
Contact:	Julie
Type:	Information Technology
Useful Life:	5-10 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Current Equipment Obsolete

Description
Redesign of a Village website. Easy navigation with descriptive titles and subcategories. Mobile friendly. Online payment system. Easy to update and updated content. Fast loading. Fill-in online forms with payments. A website of this scale will likely require on-going increased maintenance costs.

Justification
Redesign of the Village website will assist answering resident questions and marketing the Village. Fill in forms and online payments would be useful to staff and to residents/developers who are not always in the area.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Village Website Design	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000
Total	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000
Total	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000

Budget Impact/Other
Financial Impact to budget of \$10,000 in capital funds. Use existing capital fund reserve for information technology to cover remaining \$25,000 in costs.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	General Government
Program/Project Name:	Wayfinding Signage
Program/Project #:	GENERAL4-2023-2027

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	General Government
Contact:	Julie Schmelzer
Type:	Signage
Useful Life:	5-10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	New Program/Service

Description
Redesign and replace Village wayfinding and facilities signage. Cohesive look for all Village properties and facilities.

Justification
Help residents and visitors find their way around Sister Bay easily. Market Sister Bay. Update look of Village.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Wayfinding Signage	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 250,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ 250,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000
Total	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 250,000

Budget Impact/Other
Financial Impact to budget of \$50,000 annually in the capital fund

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	General Government
Program/Project Name:	Administration Building
Program/Project #:	GENERAL2-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	General Government
Contact:	Julie Schmelzer
Type:	Facilities
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
New Administration Building - office space, elections space, meeting space, storm shelter, conference room, file space, restrooms, employee kitchen/lounge, lobby, drop box, payment window, flex workspace for consultants/dept heads/others, storage closet for voting equipment, work room, sound system for presentations, handicapped accessible, good exterior lighting, safety features to separate employees and locked doors
Possibilities - adjoining post office, rental space with kitchenette

Justification
Current administration building is currently too small for needs. The current building has issues with heating/cooling, leaks, electrical overloads, insects, needs new windows, etc. The current building does not have privacy for voting or conversations. It lacks meeting spaces, large and small. We do not have good storage space that is safe from fire, water damage, rodents. Logistically being separated from other staff is inefficient. The voting equipment should be stored onsite in a secure closet/space. Village does not have a storm shelter and new building could fill that need.

Expenditures (Uses)	2023		2024	2025	2026	2027	Total
Administration Building	\$	-	\$ 5,000,000	\$	-	\$	- \$ 5,000,000
Total	\$	-	\$ 5,000,000	\$	-	\$	- \$ 5,000,000

Funding Sources	2023		2024	2025	2026	2027	Total
Bond Proceeds	\$	-	\$ 5,000,000	\$	-	\$	- \$ 5,000,000
Grants	\$	-	\$ -	\$	-	\$	- \$ -
Total	\$	-	\$ 5,000,000	\$	-	\$	- \$ 5,000,000

Budget Impact/Other
General Obligation Bonding long-term financing.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	General Government
Program/Project Name:	Village Server
Program/Project #:	GENERAL3-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	General Government
Contact:	Julie Schmelzer/Tasha Rass
Type:	Information Technology
Useful Life:	5 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Current Equipment Obsolete

Description
Current server was installed in 2019.

Justification
Standard replacement of obsolete equipment - end of useful life is 2024 - align with new building

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Village Server	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000
Total	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000

Funding Sources	2023	2024	2025	2026	2027	Total
General Fund Levy	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000
Total	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000

Budget Impact/Other
Financial Impact to budget of \$10,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	General Government
Program/Project Name:	IT Update
Program/Project #:	GENERAL4-2024

Department:	General Government
Contact:	Julie Schmelzer, Tasha Rass
Type:	Information Technology
Useful Life:	5 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Years
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Computers, laptops, and tablets for all staff.

Justification
Last replaced in 2018. Upgrade to dated computers, tablets, and laptops. Dual monitors for administrative staff. Network computers for all departments.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
IT Update	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000
Total	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000
Total	\$ -	\$ 70,000	\$ -	\$ -	\$ -	\$ 70,000

Budget Impact/Other
Financial Impact to budget of \$70,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	General Government
Program/Project Name:	Post Office Building
Program/Project #:	GENERAL1-2025

Department:	General Government
Contact:	Julie Schmelzer
Type:	Facilities
Useful Life:	20 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Remodel/redesign of post office building or potential relocation

Justification
meets needs of the post office, better traffic flow, meets needs of residents/community. Current building has rodents, needs new windows, has parking/traffic issues

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Post Office Building	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000
Total	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000

Funding Sources	2023	2024	2025	2026	2027	Total
Bond Proceeds	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000
Total	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ 500,000

Budget Impact/Other
General Obligation Bonding long-term financing.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
Fire

	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$644,809	\$774,809	\$472,815	\$602,815	\$332,815	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ 167,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 80,000	\$ 637,000
GENERAL FUND LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND PROCEEDS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GRANTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PREMIER RESORT AREA TAX	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER SOURCE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL SOURCES	<u>\$167,000</u>	<u>\$130,000</u>	<u>\$130,000</u>	<u>\$130,000</u>	<u>\$ 80,000</u>	<u>\$637,000</u>
TOTAL AVAILABLE FUNDS	<u>\$811,809</u>	<u>\$904,809</u>	<u>\$602,815</u>	<u>\$732,815</u>	<u>\$412,815</u>	
USES BY PROGRAM/PROJECT						
Chip Seal Parking Lot	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000
Gear Washer - North	\$ -	\$ 2,667	\$ -	\$ -	\$ -	\$ 2,667
Weight Room	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000
Engine 8	\$ -	\$ 404,327	\$ -	\$ -	\$ -	\$ 404,327
Thermal Imagers	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ 10,000
Radios	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000
Tender 11	\$ -	\$ -	\$ -	\$ 190,000	\$ -	\$ 190,000
TOTAL USES BY PROJECT	<u>\$ 37,000</u>	<u>\$431,994</u>	<u>\$ -</u>	<u>\$400,000</u>	<u>\$ -</u>	<u>\$868,994</u>
EST. ENDING FUND BALANCE	<u>\$774,809</u>	<u>\$472,815</u>	<u>\$602,815</u>	<u>\$332,815</u>	<u>\$412,815</u>	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Fire Department
Program/Project Name:	Chip Seal Parking Lot
Program/Project #:	FIRE1-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	FIRE Department
Contact:	Chris
Type:	FIRE Department
Useful Life:	15 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Crack sealing all cracks in parking lot and chip sealing the lot and drives

Justification
Extend life of the asphalt

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Chip Seal Parking Lot	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000
Total	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000
Total	\$ 37,000	\$ -	\$ -	\$ -	\$ -	\$ 37,000

Budget Impact/Other
Capital projects levy and expenditure of \$37,000

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Fire Department
Program/Project Name:	Gear Washer - North
Program/Project #:	FIRE1-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	FIRE
Contact:	Chris
Type:	FIRE
Useful Life:	20 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Replace Worn Out Equipment

Description
Purchased in 2005 - 20 years old. One gear washer at each station. Gear needs to be washed any time it is dirty or contaminated and at least 2 times per year. Washers have a service life of 20 years

Justification
At the end of service life

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Gear Washer - North	\$ -	\$ 2,667	\$ -	\$ -	\$ -	\$ 2,667
Total	\$ -	\$ 2,667	\$ -	\$ -	\$ -	\$ 2,667

Funding Sources	2023	2024	2025	2026	2027	Total
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial Impact to budget of \$80,000 annually for reserve in capital fund. Actual impact to expenditures of \$2,667 for the Village's portion of cost in capital fund.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Fire Department
Program/Project Name:	Weight Room
Program/Project #:	FIRE2-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	FIRE Department
Contact:	Chris
Type:	FIRE Department
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Cardio equipment purchased in 2002. Sees moderate use. Many pieces no longer supported by manufacturer.

Justification
Cardio equipment is worn and outdated. Repairs/parts are no longer supported by manufacturer.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Weight Room	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000
Total	\$ -	\$ 25,000	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	2023	2024	2025	2026	2027	Total
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial Impact to budget of \$80,000 annually for reserve in capital fund. Actual impact to expenditures of \$25,000 for the Village's portion of cost in capital fund.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Fire Department
Program/Project Name:	Engine 8
Program/Project #:	FIRE3-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	FIRE Department
Contact:	Chris
Type:	FIRE Department
Useful Life:	20 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Replace Worn Out Equipment

Description
Purchase new replacement for Engine 8. Already approved by Village and Town and ordered in 2022 for delivery in 2024. Purchased from Marion Bodyworks.

Justification
Per the apparatus report - at the time of inspection, the engine had 27,629 road miles and 1996 hours. Deterioration of chassis frame rails, battery boxes, and air reservoirs. Need to replace roll up door seals. Apparatus should be removed from service and sold to a recognized fire apparatus broker.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Engine 8	\$ -	\$ 404,327	\$ -	\$ -	\$ -	\$ 404,327
Total	\$ -	\$ 404,327	\$ -	\$ -	\$ -	\$ 404,327

Funding Sources	2023	2024	2025	2026	2027	Total
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial Impact to budget of \$80,000 annually for reserve in capital fund. Actual impact to expenditures of \$404,327 for the Village's portion of cost in capital fund (Village's portion of cost is \$419,516, but \$15,189 will be provided by the fire department from the discount on the previous vehicle purchase).

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Fire Department
Program/Project Name:	Thermal Imagers
Program/Project #:	FIRE1-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	FIRE
Contact:	Chris
Type:	FIRE
Useful Life:	20 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Years
Purpose:	Increase Safety

Description
Purchased in 1998 and 2011. At least 15 years of service. Department will need to evaluate the number of cameras needed prior to the approval of the CIP items into the budget. Price is an estimate based on 2011 costs. Fire Fighters Association is working with a potential donor to secure funding for replacement of the two oldest thermal imagers - now over 20 years in service.

Justification
Equipment has been through at least 15 years of use and is dated.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Thermal Imagers	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ 10,000
Total	\$ -	\$ -	\$ -	\$ 10,000	\$ -	\$ 10,000

Funding Sources	2023	2024	2025	2026	2027	Total
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial Impact to budget of \$80,000 annually for reserve in capital fund. Actual impact to expenditures of \$10,000 for the Village's portion of cost in capital fund.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	Fire Department
Program/Project Name:	Radios
Program/Project #:	FIRE2-2026

Department:	FIRE
Contact:	Chris
Type:	FIRE
Useful Life:	20 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Y
Purpose:	Scheduled Replacement

Note: Program/Project Name and # Referenced on Category Sheet.

Description
75 portable radios purchased between 2004 and 2011 and 14 truck mounted radios purchased in 2008. Upgrades to repeaters, receivers, multiplexers, and other associated hardware within the department's radio system may also be necessary. The County is currently working with consultants to establish a basic estimate of needs for transition to a digital 700 or 800 mhz system. This will require 100% change of all radio equipment. Current estimates at the county level are between \$12mm and \$20mm. County is meeting in fall to choose a technology and then they will have a better understanding of costs. There are multiple funding options open at this point. It is expected that some costs will roll down to the municipal level. Go live date is 1/1/28, build out in 2027, bonded/funded in 2026

Justification
Estimated County-wide system replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Radios	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000
Total	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ 200,000

Funding Sources	2023	2024	2025	2026	2027	Total
	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 200,000
Total	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ -	\$ 200,000

Budget Impact/Other
Financial Impact to budget of \$50,000 annually for reserve in capital fund. Actual impact to expenditures of \$200,000 for the Village's portion of cost in capital fund although the actual cost has not been accurately estimated yet.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Fire Department
Program/Project Name:	Tender 11
Program/Project #:	FIRE3-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	FIRE Department
Contact:	Chris
Type:	FIRE Department
Useful Life:	15 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Replace Worn Out Equipment

Description
1994 International 4900 two-door cab and chassis with a steel body. Vehicle is equipped with a small portable fire pump and carries a 2100 gallon water tank. Chassis is powered by an International DT-466 engine rated at 250 horsepower through an Allison MT-643 automatic transmission. The apparatus is built on a single axle 152" wheelbase.
Tender 11 has around 8000 road miles accumulated and is assigned to respond second to all fires in non-hydrant areas. The truck operates primarily as a tanker.

Justification
At replacement, vehicle will be 31 years old. Chassis frame rails, cross members, and body structure have moderate rust. Due to in-service weight on the rear axle, no other hose, tools or equipment can be carried on the apparatus.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Tender 11	\$ -	\$ -	\$ -	\$ 190,000	\$ -	\$ 190,000
Total	\$ -	\$ -	\$ -	\$ 190,000	\$ -	\$ 190,000

Funding Sources	2023	2024	2025	2026	2027	Total
	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial Impact to budget of \$80,000 annually for reserve in capital fund. Actual impact to expenditures of \$190,000 for the Village's portion of cost in capital fund. This cost estimate is likely very low. Will revise with bids in 2023/2024

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023-2027 Parks						
	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$ 248,544	\$369,044	\$ 69,044	\$ 169,044	\$ 4,044	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ 182,500	\$ 150,000	\$ 185,000	\$ 145,000	\$ 65,000	\$ 727,500
GENERAL FUND LEVY	\$ 25,550	\$ -	\$ -	\$ -	\$ -	\$ 25,550
BOND PROCEEDS	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
GRANTS	\$ 45,520	\$ -	\$ -	\$ 50,000	\$ -	\$ 95,520
PREMIER RESORT AREA TAX	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER SOURCE	\$ 35,724	\$ -	\$ -	\$ -	\$ -	\$ 35,724
TOTAL SOURCES	<u>\$ 2,789,294</u>	<u>\$ 150,000</u>	<u>\$ 185,000</u>	<u>\$ 195,000</u>	<u>\$ 65,000</u>	<u>\$ 3,384,294</u>
TOTAL AVAILABLE FUNDS	<u>\$ 3,037,838</u>	<u>\$ 519,044</u>	<u>\$ 254,044</u>	<u>\$ 364,044</u>	<u>\$ 69,044</u>	
USES BY PROGRAM/PROJECT						
Vehicle or Equipment Lift	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 12,000
2011 Truck Replacement	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Bus	\$ 81,244	\$ -	\$ -	\$ -	\$ -	\$ 81,244
Stump Grinder attachment	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000
Public Works Building	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
Waterfront Park Concrete	\$ 18,550	\$ -	\$ -	\$ -	\$ -	\$ 18,550
Mill Rd Public Works Bldg Demo	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
Parking Lot at 2313 Mill Rd	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
2005 Truck Replacement	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
2011 Ranger #2 Replacement	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ 35,000
Activity Trail System	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000
Waterfront Playground Equipment	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 325,000
Bobcat Skidsteer & Accessories	\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ 35,000
2019 Truck Replacement	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000
Stand Up Mower	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000
TOTAL USES BY PROJECT	<u>\$ 2,668,794</u>	<u>\$ 450,000</u>	<u>\$ 85,000</u>	<u>\$ 360,000</u>	<u>\$ 65,000</u>	<u>\$ 3,628,794</u>
EST. ENDING FUND BALANCE	<u>\$ 369,044</u>	<u>\$ 69,044</u>	<u>\$ 169,044</u>	<u>\$ 4,044</u>	<u>\$ 4,044</u>	
Starting fund balance						
Vehicle Reserve	\$ 19,428	\$ 7,428	\$ 7,428	\$ 7,428	\$ -	
Equipment Reserve	\$ 13,974	\$ 13,974	\$ 13,974	\$ 113,974	\$ -	
Parks Reserve	\$ 65,142	\$ 47,642	\$ 47,642	\$ 47,642	\$ 4,044	
Facilities	\$ 150,000	\$ 300,000	\$ -	\$ -	\$ -	
	\$ 248,544	\$ 369,044	\$ 69,044	\$ 169,044	\$ 4,044	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	Vehicle or Equipment Lift
Program/Project #:	Parks1-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Erik Linczmaier
Type:	Equipment
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Improve Policies/Procedures

Description
Lift to maintain and repair equipment and vehicles. BendPak floorplate 2-post truck and car lift. 12,000 lb capacity. \$8515 + delivery and installation costs

Justification
For performing basic maintenance of equipment and vehicles in-house (oil changes, brakes, etc.). Basic maintenance has, in the past, been outsourced or not performed. Not performing routine maintenance on equipment (greasing gears, rotations, etc.) has resulted in shortened life of equipment.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Vehicle or Equipment Lift	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 12,000
Total	\$ 12,000	\$ -	\$ -	\$ -	\$ -	\$ 12,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget - \$0. Fund balance will be used to cover the purchase.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	2011 Truck Replacement
Program/Project #:	Parks2-2023

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Vehicle
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Replace 2011 Ford Ranger truck with a 3/4 ton truck. Regular cab. Truck should have a lift gate, plow, back up alarms, lights, and branding. Can purchase off the lot.

Justification
Truck purchased in 2011. Truck currently runs but body is deteriorating. Daily use in the past. 2011 truck sold in 2022 for \$13,750. Funds from the sale are being used to offset the cost of the new truck.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2011 Truck Replacement	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Total	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 32,500	\$ -	\$ -	\$ -	\$ -	\$ 32,500
Total	\$ 32,500	\$ -	\$ -	\$ -	\$ -	\$ 32,500

Budget Impact/Other
Financial impact to the budget of \$50,000 - capital levy - less the proceeds from the sale of the Ranger of \$13,750, which is in the fund balance, and remaining fund balance from a prior purchase.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	Parks
Program/Project Name:	Bus
Program/Project #:	Parks3-2023

Department:	Parks
Contact:	Dan Klansky/Louise Howson
Type:	Vehicle
Useful Life:	10 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Replace the 2008 Ford E450 Superduty Bus. Purchase a similar 12 passenger bus, used.

Justification
Purchased for \$8000 in 2018. Bus has had issues with leaking oil, engine problems, and other issues since purchase. Since purchase, over \$16,000 has been put into repairs. Bus has 161,000 miles on it. Bus out of service in late July 2022 due to repair issues.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Bus	\$ 81,244	\$ -	\$ -	\$ -	\$ -	\$ 81,244
Total	\$ 81,244	\$ -	\$ -	\$ -	\$ -	\$ 81,244

Funding Sources	2023	2024	2025	2026	2027	Total
Grants	\$ 45,520	\$ -	\$ -	\$ -	\$ -	\$ 45,520
Other Source	\$ 35,724	\$ -	\$ -	\$ -	\$ -	\$ 35,724
Total	\$ 81,244	\$ -	\$ -	\$ -	\$ -	\$ 81,244

Budget Impact/Other
CMAQ grant secured for a portion of the cost and TZC reimbursement funds used for the remainder. The bus may be purchased in 2022 if grant funds are released. If so, this item will be removed from the plan.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	Stump Grinder attachment
Program/Project #:	Parks4-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Erik Linczmaier
Type:	Equipment
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Improve Policies/Procedures

Description
Attachment for the tractor or skidsteer for grinding stumps

Justification
No more outsourcing. Complete trimming and tree management in-house. There are a number of stumps that need to be ground.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Stump Grinder attachment	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000
Total	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000

Funding Sources	2023	2024	2025	2026	2027	Total
General Fund Levy	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000
Total	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ 7,000

Budget Impact/Other
Financial impact to budget - \$7,000 - general fund budget

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	Public Works Building
Program/Project #:	Parks5-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Facilities
Useful Life:	40 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Build a new building in the area of the lagoon/cold storage building to relocate the public works department. Garage and storage space, locker rooms, offices, shop area, etc. Would need to be large enough to house all equipment in Mill Rd building and all equipment in lagoon building. Lagoon building may be demolished. Cribs completed behind building to retain materials like stone, gravel, wood chips, etc.

Justification
Current building is undersized and needs repairs. Asphalt needs replacement, stone siding is falling off, building has mice issues. In addition, the building is in the busy downtown area.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Public Works Building	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
Total	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000

Funding Sources	2023	2024	2025	2026	2027	Total
Bond Proceeds	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000
Total	\$ 2,500,000	\$ -	\$ -	\$ -	\$ -	\$ 2,500,000

Budget Impact/Other
General Obligation Bonding long-term financing.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	Waterfront Park Concrete
Program/Project #:	Parks6-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Grounds Infrastructure
Useful Life:	20 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Yea
Purpose:	Increase Safety

Description
Concrete path from restrooms in Waterfront Park to Post Office Ln and a concrete pad for the Coastal Byways Kiosk

Justification
Path from restrooms was budgeted in 2021 but not completed. Parks Committee re-addressed it in October 2021 but after budget was completed so it was not budgeted for 2022. Path would create a nice, safe walkway to the restrooms with good visual appeal. Concrete for path would be broom brushed and simple in design.
Pad for kiosk would be brushed concrete (preferred) or stamped. Brushed cost would be \$3500.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Waterfront Park Concrete	\$ 18,550	\$ -	\$ -	\$ -	\$ -	\$ 18,550
Total	\$ 18,550	\$ -	\$ -	\$ -	\$ -	\$ 18,550

Funding Sources	2023	2024	2025	2026	2027	Total
General Fund Levy	\$ 18,550	\$ -	\$ -	\$ -	\$ -	\$ 18,550
Total	\$ 18,550	\$ -	\$ -	\$ -	\$ -	\$ 18,550

Budget Impact/Other
Financial impact to budget - \$18,550 - general fund general building maintenance budget

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	Mill Rd Public Works Bldg Demo
Program/Project #:	Parks1-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Facilities
Useful Life:	0 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Current Equipment Obsolete

Description
Demolition of the Parks Building/Public Works Building/Old Fire Station at 2313 Mill Rd upon completion of the new public works building and move to that facility. This decision is not final and is still being addressed by the committee.

Justification
Current building is undersized and needs repairs. Asphalt needs replacement, stone siding is falling off, building has mice issues. In addition, the building is in the busy downtown area.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Mill Rd Public Works Bldg Demo	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
Total	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
Total	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000

Budget Impact/Other
Financial impact to budget - \$50,000 - capital fund levy

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	Parks
Program/Project Name:	Parking Lot at 2313 Mill Rd
Program/Project #:	Parks2-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Facilities
Useful Life:	20 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Expanded Service

Description
After demolition of the building, create a parking lot in that space. This decision is not final and is still being addressed by the committee.

Justification
Public parking in the downtown is needed. The Parks Properties and Streets Committee would like to discuss this further but no changes were made to the CIP at this time.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Parking Lot at 2313 Mill Rd	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000
Total	\$ -	\$ 350,000	\$ -	\$ -	\$ -	\$ 350,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 150,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 200,000
Total	\$ 150,000	\$ 50,000	\$ -	\$ -	\$ -	\$ 200,000

Budget Impact/Other
Financial impact to budget - \$200,000 - capital levy between 2023 and 2024. Remaining \$150,000 in funds from buildings/facilities reserves.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	2005 Truck Replacement
Program/Project #:	Park3-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Vehicle
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Replace 2005 Chevy pickup truck with a 3/4 ton truck. Regular cab. Truck should have a lift gate, plow, back up alarms, lights, and branding. Can purchase off the lot.

Justification
Truck purchased in 2004. Truck currently runs but body is deteriorating. Frequent, heavy use.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2005 Truck Replacement	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
Total	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000
Total	\$ -	\$ 50,000	\$ -	\$ -	\$ -	\$ 50,000

Budget Impact/Other
Financial impact to the budget of \$50,000 - capital levy

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	2011 Ranger #2 Replacement
Program/Project #:	Parks1-2025

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Vehicle
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace 2011 Ford Ranger with full-size pickup truck.

Justification
14 years old. Would like to replace with another small truck. Good for small spaces, tight turns, pulls lift, maneuvers through town during busy time easier.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2011 Ranger #2 Replacement	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ 35,000
Total	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ 35,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ 35,000
Total	\$ -	\$ -	\$ 35,000	\$ -	\$ -	\$ 35,000

Budget Impact/Other
Financial impact to budget - \$35,000 - capital levy

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	Activity Trail System
Program/Project #:	Parks2-2025

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Parks
Useful Life:	20 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Expanded Service

Description
Create an activity trail. Gravel, paved, or chipped trail with rest areas with benches and equipment areas for stretches or exercise (pull-ups, push-ups, etc.). Seek grants and sponsorships to assist with cost.

Justification
Community requested.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Activity Trail System	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000
Total	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000
Total	\$ -	\$ -	\$ 50,000	\$ -	\$ -	\$ 50,000

Budget Impact/Other
Financial impact to budget - \$50,000 - capital levy

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	Waterfront Playground Equipment
Program/Project #:	Parks1-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Parks
Useful Life:	15 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Years
Purpose:	Replace Worn Out Equipment

Description
Inclusive Playground - rubberized base, new equipment. Playground creates a space were all children, regardless of mobility, can play and socialize. Would be placed where existing Waterfront Park playground is located. Equipment could be branded for Sister Bay (ships, scandinavian, vikings, goats, etc) but branded equipment is additional cost.

Justification
Current equipment is aged and in need of replacement. Replace with playground accessible by all mobility levels.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Waterfront Playground Equipment	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 325,000
Total	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 325,000

Funding Sources	2023	2024	2025	2026	2027	Total
Grants	\$ -	\$ -	\$ -	\$ 50,000	\$ -	\$ 50,000
Capital Projects Levy	\$ -	\$ -	\$ 100,000	\$ 110,000	\$ -	\$ 210,000
Total	\$ -	\$ -	\$ 100,000	\$ 160,000	\$ -	\$ 260,000

Budget Impact/Other
Financial impact to budget - \$275,000 - capital levy of \$210,000 - remaining balance from capital reserve funds for parks. Seek grant funding of \$50,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	Bobcat Skidsteer & Accessories
Program/Project #:	Parks2-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Erik Linczmaier
Type:	Equipment
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Scheduled Replacement

Description
Replace the 2008 Caterpillar SCH03-154PKS Skid Steer Loader with a similar vehicle

Justification
Scheduled replacement. Frequently used.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Bobcat Skidsteer & Accessories	\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ 35,000
Total	\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ 35,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ 35,000
Total	\$ -	\$ -	\$ -	\$ 35,000	\$ -	\$ 35,000

Budget Impact/Other
Financial impact to budget - \$35,000 - capital levy

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Parks
Program/Project Name:	2019 Truck Replacement
Program/Project #:	Parks3-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Dan Klansky/Erik Linczmaier
Type:	Vehicle
Useful Life:	10 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Scheduled Replacement

Description
Replace the 2020 Ford F250 with a truck of similar size. Trade in 2020 or sell and use funds to offset purchase price. Moving to a 5 year rolling replacement schedule for vehicles.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2019 Truck Replacement	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 50,000

Budget Impact/Other
Financial impact to budget - \$50,000 - capital levy

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	Parks
Program/Project Name:	Stand Up Mower
Program/Project #:	Parks1-2027

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Parks
Contact:	Erik Linczmaier
Type:	Equipment
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Improve Policies/Procedures

Description
Professional grade, stand on mower. Will replace Toro riding mower purchased in 2011. Equipment is beyond useful life but is still operational and in operating condition. New maintenance program should prolong life and use.

Justification
All mowers are currently riding mowers. Stand up mowers would allow staff to get closer to objects. It is easier on the employees' backs. The operator is able to lean on inclines and stand up mowers handle rough terrain better. Operators are also able to get on/off quicker. Standing mowers are becoming the industry standard for professional/commercial use. Standing mowers can cut up to 2x the speed of conventional mowers in open spaces.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Stand Up Mower	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000

Budget Impact/Other
Financial impact to budget - \$15,000.

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023-2027 Streets						
	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$ 974,879	\$ 847,879	\$ 247,879	\$ 1,097,879	\$ 272,879	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GENERAL FUND LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND PROCEEDS	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 1,500,000
GRANTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PREMIER RESORT AREA TAX	\$ 325,000	\$ 550,000	\$ 100,000	\$ 325,000	\$ -	\$ 1,300,000
OTHER SOURCE	\$ 807,680	\$ -	\$ 1,750,000	\$ -	\$ -	\$ 2,557,680
TOTAL SOURCES	\$ 1,132,680	\$ 2,050,000	\$ 1,850,000	\$ 325,000	\$ -	\$ 5,357,680
TOTAL AVAILABLE FUNDS	\$ 2,107,559	\$ 2,897,879	\$ 2,097,879	\$ 1,422,879	\$ 272,879	
USES BY PROGRAM/PROJECT						
Northwoods Extension	\$ 807,680	\$ -	\$ -	\$ -	\$ -	\$ 807,680
S Highland	\$ 216,000	\$ -	\$ -	\$ -	\$ -	\$ 216,000
Mill Rd East	\$ 186,000	\$ -	\$ -	\$ -	\$ -	\$ 186,000
Bluff Storm Sewer	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Mill Rd West	\$ -	\$ 925,000	\$ -	\$ -	\$ -	\$ 925,000
Wiltse Property Infrastructure	\$ -	\$ 1,500,000	\$ -	\$ -	\$ -	\$ 1,500,000
Country Ln	\$ -	\$ 225,000	\$ -	\$ -	\$ -	\$ 225,000
Mill Rd Triangle	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ -	\$ 2,000,000
Highway 57 Trail	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ 150,000
TOTAL USES BY PROJECT	\$ 1,259,680	\$ 2,650,000	\$ 1,000,000	\$ 1,150,000	\$ -	\$ 6,059,680
EST. ENDING FUND BALANCE	\$ 847,879	\$ 247,879	\$ 1,097,879	\$ 272,879	\$ 272,879	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Streets
Program/Project Name:	Northwoods Extension
Program/Project #:	Streets1-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Streets
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Expanded Service

Description
2023 Storm sewer, water, sewer, paving and sidewalks for an extension of Northwoods to support housing development and connect residential areas in the Village. Northwoods has been a planned road for several years. To be completed in 2023. Must be completed by August to use TIF money.
Board approved moving foward with the project in 2022 so that bids could be sought earlier than normal in an attempt to get the project completed by the TIF deadline.

Justification
See description

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Northwoods Extension	\$ 807,680	\$ -	\$ -	\$ -	\$ -	\$ 807,680
Total	\$ 807,680	\$ -	\$ -	\$ -	\$ -	\$ 807,680

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ 807,680	\$ -	\$ -	\$ -	\$ -	\$ 807,680
Total	\$ 807,680	\$ -	\$ -	\$ -	\$ -	\$ 807,680

Budget Impact/Other
Financial Impact to budget of \$807,680 - use tax increment in TID #1. This is a planned TID project. Engineer's estimate was \$665,166 - increased for inflationary costs, widening & curb/gutter.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027**

Category:	Streets
Program/Project Name:	S Highland
Program/Project #:	Streets2-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Streets
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Scheduled Replacement

Description

Mill and repave 22 ft wide.

Justification

South Highland has a PASER between 4 and 5 in 2021. The new pavement is needed to repair the significant cracking that is occurring throughout the length of the roadway and to be proactive before the roadway reaches a full reconstruct due to saturated and poor subgrade conditions. Performing maintenance on these roads now will benefit the Village in future by saving taxpayers money before a more extensive repair or replacement is needed.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
S Highland	\$ 216,000	\$ -	\$ -	\$ -	\$ -	\$ 216,000
Total	\$ 216,000	\$ -	\$ -	\$ -	\$ -	\$ 216,000

Funding Sources	2023	2024	2025	2026	2027	Total
Premier Resort Area Tax	\$ 216,000	\$ -	\$ -	\$ -	\$ -	\$ 216,000
Total	\$ 216,000	\$ -	\$ -	\$ -	\$ -	\$ 216,000

Budget Impact/Other

Financial Impact to budget of \$101,000. Remaining \$40,000 from PRAT fund balance.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Streets
Program/Project Name:	Mill Rd East
Program/Project #:	Streets3-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Streets
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Scheduled Replacement

Description
Mill and repave 22ft wide. Extend sidewalk to end of street

Justification
Sidewalk ends at fire station. It would help pedestrian traffic to extend the sidewalk the length of Mill Rd. The existing pavement and has a PASER of 3 in 2021. The new HMA pavement is needed to repair the significant cracking that is occurring throughout the length of the roadway and to be proactive before the roadways reaches a full reconstruct due to saturated and poor subgrade conditions. Performing maintenance on these roads now will benefit the Village in future by saving taxpayers money before a more extensive repair or replacement is needed.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Mill Rd East	\$ 186,000	\$ -	\$ -	\$ -	\$ -	\$ 186,000
Total	\$ 186,000	\$ -	\$ -	\$ -	\$ -	\$ 186,000

Funding Sources	2023	2024	2025	2026	2027	Total
Premier Resort Area Tax	\$ 109,000	\$ -	\$ -	\$ -	\$ -	\$ 109,000
Total	\$ 109,000	\$ -	\$ -	\$ -	\$ -	\$ 109,000

Budget Impact/Other
Funding provided by \$109,000 in new PRAT funds and the remaining provided by PRAT fund balance.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Streets
Program/Project Name:	Bluffside Lane Storm Sewer Repair
Program/Project #:	Streets4-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Storm Sewer
Useful Life:	40 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Replace collapsed storm sewer drains and storm sewer grate on Bluffside Lane. Tie into existing storm sewer. This is a small portion of the storm sewer repairs that are needed in the area.

Justification
Storm sewer has collapsed. A concrete basin has also collapsed. There is a hole in the street that goes more than two feet down. Further collapse of the basin is possible and is a safety concern. Storm water is currently draining in this collapsed pipe and is then draining into the ground. The Bluffside, Maple, Mill and Parkview triangle needs streets and storm sewer repairs, but this particular section is an immediate safety concern.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Bluffside Lane Storm Sewer Repair	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Total	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	2023	2024	2025	2026	2027	Total
Premier Resort Area Tax	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	-

Budget Impact/Other
Funding provided by PRAT fund balance.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Streets
Program/Project Name:	Mill Rd West
Program/Project #:	Streets1-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Streets
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Scheduled Replacement

Description
Large project to repair the base and repave Mill Rd from Bay Shore Dr to Maple. This project would also repair and install storm sewer in this section. It is the first step in roadwork and storm sewer of the Mill Rd triangle. The beachfront brick parking would be reconfigured/repared. Sidewalks would be installed. There would be curb & gutter in the area. Maximizing parking/maintaining traffic flow would be considered in planning.

Justification
Storm sewer is partially complete but not connected. Road has standing water in areas, large potholes, cracks, etc. Mill Rd is a main corridor for pedestrian traffic and sidewalks would help keep people out of the roadway. Storm sewer is partially complete but not connected. Road rating is a 4. PASER means Pavement Surface Evaluation and Rating with a 4 that means the road needs some full depth repairs, milling and a asphalt overlay to repair.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Mill Rd West	\$ -	\$ 925,000	\$ -	\$ -	\$ -	\$ 925,000
Total	\$ -	\$ 925,000	\$ -	\$ -	\$ -	\$ 925,000

Funding Sources	2023	2024	2025	2026	2027	Total
Premier Resort Area Tax	\$ -	\$ 325,000	\$ -	\$ -	\$ -	\$ 325,000
Total	\$ -	\$ 325,000	\$ -	\$ -	\$ -	\$ 325,000

Budget Impact/Other
Financial Impact to budget of \$325,000 in PRAT funds. Remaining from PRAT fund balance

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Streets
Program/Project Name:	Wiltse Property Infrastructure
Program/Project #:	Streets2-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Streets
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	New Program/Service

Description
Installation of infrastructure on the Wiltse property according to the property plan

Justification
See above

Expenditures (Uses)	2023		2024		2025		2026		2027		Total
Wiltse Property Infrastructure	\$	-	\$	1,500,000	\$	-	\$	-	\$	-	\$ 1,500,000
Total	\$	-	\$	1,500,000	\$	-	\$	-	\$	-	\$ 1,500,000

Funding Sources	2023		2024		2025		2026		2027		Total
Bond Proceeds	\$	-	\$	1,500,000	\$	-	\$	-	\$	-	\$ 1,500,000
Total	\$	-	\$	1,500,000	\$	-	\$	-	\$	-	\$ 1,500,000

Budget Impact/Other
General government bond financing

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Streets
Program/Project Name:	Country Ln
Program/Project #:	Streets3-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Streets
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Scheduled Replacement

Description
The Town of Liberty Grove would like to mill and repave Country Ln. This would be 24ft wide and a shared cost with the Village. Liberty Grove wanted to repave the road in 2023, but the Parks and Streets Committee has moved this to 2025. After additional discussion and negotiation with Liberty Grove, it was agreed to schedule the mill and pave for 2024 with the understanding that the Village and Town would work together on a plan to widen the road for bicycle traffic. Additional widening of the road for a bike lane would add significant cost to the project.

Justification
The road rating for Country Lane is a 7 but this does not reflect the true condition of the road. There are numerous areas of severe deterioration sections of the road look like they were patched with cold mix the road is in need of repaving.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Country Ln	\$ -	\$ 225,000	\$ -	\$ -	\$ -	\$ 225,000
Total	\$ -	\$ 225,000	\$ -	\$ -	\$ -	\$ 225,000

Funding Sources	2023	2024	2025	2026	2027	Total
Premier Resort Area Tax	\$ -	\$ 225,000	\$ -	\$ -	\$ -	\$ 225,000
Total	\$ -	\$ 225,000	\$ -	\$ -	\$ -	\$ 225,000

Budget Impact/Other
Financial Impact to budget of \$225,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Streets
Program/Project Name:	Mill Rd Triangle
Program/Project #:	Streets1-2025-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Streets
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Scheduled Replacement

Description
2025-2026 completion of the Mill Rd triangle - Maple, Bluffside, Parkview and Parkview. Installation/repair of storm sewer. Curb and gutter. Sidewalks where possible. Examine parking considerations to maximize spaces and traffic flow. This is a large project that requires an early start on planning and communication with the residents and businesses in that area.

Justification
Storm sewer is partially complete but not connected. All of the contecting roads have large potholes, cracks, etc. Mill Rd Triangle is a main corridor for pedestrian traffic and sidewalks would help keep people out of the roadway. Road rating is a 4. PASER means Pavement Surface Evaluation and Rating with a 4 that means the road needs some full depth repairs, milling and a asphalt overlay to repair.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Mill Rd Triangle	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ -	\$ 2,000,000
Total	\$ -	\$ -	\$ 1,000,000	\$ 1,000,000	\$ -	\$ 2,000,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ 1,750,000	\$ -	\$ -	\$ 1,750,000
Premier Resort Area Tax	\$ -	\$ -	\$ 100,000	\$ -	\$ -	\$ 100,000
Total	\$ -	\$ -	\$ 1,850,000	\$ -	\$ -	\$ 1,850,000

Budget Impact/Other
\$250,000 in PRAT Funds, \$100,000 in PRAT funds brought in during 2025 and \$150,000 in fund balance and the remaining \$1,750,000 should be in funds repaid by TIF #1 to the capital or general funds

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Streets
Program/Project Name:	Highway 57 Trail
Program/Project #:	Streets2-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Streets
Contact:	Dan Klansky
Type:	Streets
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Scheduled Replacement

Description
Pedestrian/Bike Path along Highway 57 from medical center to Village edge. Path off-road to facilitate bikes and pedestrians who are currently walking along the highway in that area. Asphalt path. Cooperative with DOT

Justification
People are frequently walking and biking on the shoulder of the highway which is a safety issue. As we see more homes and businesses in that area, the problem will continue to worsen.


Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Highway 57 Trail	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ 150,000
Total	\$ -	\$ -	\$ -	\$ 150,000	\$ -	\$ 150,000
Funding Sources	2023	2024	2025	2026	2027	Total
Premier Resort Area Tax	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 325,000
Total	\$ -	\$ -	\$ -	\$ 325,000	\$ -	\$ 325,000

Budget Impact/Other
\$150,000 in PRAT Funds

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
Library

	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$ 15,000	\$ 4,060	\$ 310	\$ 5,310	\$ 10,310	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ 30,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 5,000	\$ 50,000
GENERAL FUND LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND PROCEEDS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GRANTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PREMIER RESORT AREA TAX	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER SOURCE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL SOURCES	<u>\$ 30,000</u>	<u>\$ 5,000</u>	<u>\$ 5,000</u>	<u>\$ 5,000</u>	<u>\$ 5,000</u>	<u>\$ 50,000</u>
TOTAL AVAILABLE FUNDS	<u>\$ 45,000</u>	<u>\$ 9,060</u>	<u>\$ 5,310</u>	<u>\$ 10,310</u>	<u>\$ 15,310</u>	
USES BY PROGRAM/PROJECT						
Library HVAC	\$ 6,540	\$ -	\$ -	\$ -	\$ -	\$ 6,540
Library Furnaces	\$ 9,400	\$ -	\$ -	\$ -	\$ -	\$ 9,400
Library Carpeting	\$ -	\$ -	\$ -	\$ -	\$ 7,500	\$ 7,500
Exterior Painting	\$ -	\$ 8,750	\$ -	\$ -	\$ -	\$ 8,750
Roof Repair	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
TOTAL USES BY PROJECT	<u>\$ 40,940</u>	<u>\$ 8,750</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 7,500</u>	<u>\$ 57,190</u>
EST. ENDING FUND BALANCE	<u>\$ 4,060</u>	<u>\$ 310</u>	<u>\$ 5,310</u>	<u>\$ 10,310</u>	<u>\$ 7,810</u>	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Library
Program/Project Name:	Library HVAC
Program/Project #:	Library1-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Library
Contact:	Ron Kane/Sheila Bristol
Type:	Library
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Replace library HVAC. 4 units replaced at the same time would result in cost savings.

Justification
Units are 23 years old. Repairs have been made to extend their life thus far.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Library HVAC	\$ 6,540	\$ -	\$ -	\$ -	\$ -	\$ 6,540
Total	\$ 6,540	\$ -	\$ -	\$ -	\$ -	\$ 6,540

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Total	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000

Budget Impact/Other
Financial Impact to budget of \$5,000. The remaining source of the funds for \$3,000 will come from the capital fund balance - reserved for library.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Library
Program/Project Name:	Library Furnaces
Program/Project #:	Library2-2023

Department:	Library
Contact:	Ron Kane or Sheila Bristol
Type:	Library
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Replacement of three furnace units with 2 stage, 120,000 BTU units

Justification
Units are 23 years old. Repairs have been made to extend their life thus far.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Library Furnaces	\$ 9,400	\$ -	\$ -	\$ -	\$ -	\$ 9,400
Total	\$ 9,400	\$ -	\$ -	\$ -	\$ -	\$ 9,400

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
\$0 levied for project. The remaining source of the funds for \$5,750 will come from the capital fund balance - reserved for library.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Library
Program/Project Name:	Roof Repair
Program/Project #:	Library3-2023

Department:	Library
Contact:	Ron Kane or Sheila Bristol
Type:	Library
Useful Life:	10 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description

Justification
Roof is leaking very badly.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Roof Repair	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Total	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Total	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Budget Impact/Other

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	Library
Program/Project Name:	Exterior Painting
Program/Project #:	Library1-2024

Department:	Library
Contact:	Ron Kane or Sheila Bristol
Type:	Library
Useful Life:	10 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Repaint the exterior of the building and perform some repairs on the building

Justification

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Exterior Painting	\$ -	\$ 8,750	\$ -	\$ -	\$ -	\$ 8,750
Total	\$ -	\$ 8,750	\$ -	\$ -	\$ -	\$ 8,750

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy		\$ 5,000			\$ -	\$ 5,000
Total	\$ -	\$ 5,000	\$ -	\$ -	\$ -	\$ 5,000

Budget Impact/Other
\$5,000 levied for project. The remaining source of the funds for \$2,500 will come from the capital fund balance - reserved for library.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	Library
Program/Project Name:	Library Carpeting
Program/Project #:	Library1-2027

Department:	Library
Contact:	Ron Kane or Sheila Bristol
Type:	Library
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Replace carpeting with industrial, commercial grade carpeting similar to what is currently there.

Justification
Carpeting through facility is original. Showing signs of wear. Has lasted longer than the typical life of carpeting/flooring.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Library Carpeting	\$ -	\$ -	\$ -	\$ -	\$ 7,500	\$ 7,500
Total	\$ -	\$ -	\$ -	\$ -	\$ 7,500	\$ 7,500

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy					\$ 5,000	\$ 5,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000

Budget Impact/Other
\$5,000 levied for project. The remaining source of the funds for \$2,500 will come from the capital fund balance - reserved for library.

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023-2027 Ice Rink						
	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 175,000	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ -	\$ -	\$ -	\$ 100,000	\$ 215,000	\$ 315,000
GENERAL FUND LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND PROCEEDS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GRANTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PREMIER RESORT AREA TAX	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER SOURCE	\$ -	\$ -	\$ -	\$ -	\$ 1,400,000	\$ 1,400,000
TOTAL SOURCES	\$ -	\$ -	\$ -	\$ 100,000	\$ 1,615,000	\$ 1,715,000
TOTAL AVAILABLE FUNDS	\$ 75,000	\$ 75,000	\$ 75,000	\$ 175,000	\$ 1,790,000	
USES BY PROGRAM/PROJECT						
Hockey Boards	\$ -	\$ -	\$ -	\$ -	\$ 90,000	\$ 90,000
Rink Concrete & Coils	\$ -	\$ -	\$ -	\$ -	\$ 850,000	\$ 850,000
Refrigeration System	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000
Warming House Expansion	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000
TOTAL USES BY PROJECT	\$ -	\$ -	\$ -	\$ -	\$ 1,790,000	\$ 1,790,000
EST. ENDING FUND BALANCE	\$ 75,000	\$ 75,000	\$ 75,000	\$ 175,000	\$ -	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Ice Rink
Program/Project Name:	Hockey Boards
Program/Project #:	Ice Rink1-2027

Department:	Ice Rink
Contact:	Cody B
Type:	Equipment
Useful Life:	5-10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Increase Safety

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Hockey Boards Replacement.

Justification
Boards are replaced every 5-10 years due to use.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Hockey Boards	\$ -	\$ -	\$ -	\$ -	\$ 90,000	\$ 90,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 90,000	\$ 90,000

Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000

Budget Impact/Other
Financial Impact to budget of \$15,000. \$75,000 from reserves.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027

PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Ice Rink
Program/Project Name:	Rink Concrete & Coils
Program/Project #:	Ice Rink2-2027

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Ice Rink
Contact:	Cody B
Type:	Facilities
Useful Life:	50 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Improve Policies/Procedures

Description

New concrete pads for two rinks. Flat surface. Cooling coils and grounds enhancements.

Justification

Current rink is sloped and has a drain, ruining the ice.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Rink Concrete & Coils	\$ -	\$ -	\$ -	\$ -	\$ 850,000	\$ 850,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 850,000	\$ 850,000
Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ 850,000	\$ 850,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 850,000	\$ 850,000

Budget Impact/Other

Friends group seeking donations for concrete work and coils

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Ice Rink
Program/Project Name:	Refrigeration System
Program/Project #:	Ice Rink3-2027

Department:	Ice Rink
Contact:	Cody B
Type:	Facilities
Useful Life:	20 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Expanded Service

Note: Program/Project Name and # Referenced on Category Sheet.

Description

Refrigeration system for the ice rink

Justification

Maintain ice throughout season. Good ice for tournament. Able to be open longer and more reliably

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Refrigeration System	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000
Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 550,000	\$ 550,000

Budget Impact/Other

Friends group seeking donations for refrigeration system

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Ice Rink
Program/Project Name:	Warming House Expansion
Program/Project #:	Ice Rink4-2027

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Ice Rink
Contact:	Cody B
Type:	Facilities
Useful Life:	20 years
Priority:	1 - Maintain/Public Want/Greater than 3 Years
Purpose:	Expanded Service

Description

Expansion and renovation of the warming house for the ice rink

Justification

Expanded concessions and storage facility, social space

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Warming House Expansion	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 300,000	\$ 300,000
Funding Sources	2023	2024	2025	2026	2027	Total
Capital Projects Levy	\$ -	\$ -	\$ -	\$ 100,000	\$ 200,000	\$ 300,000
Total	\$ -	\$ -	\$ -	\$ 100,000	\$ 200,000	\$ 300,000

Budget Impact/Other

Financial Impact to budget of \$300,000

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
Water

	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$ 792,106	\$ 770,906	\$ 756,906	\$ 742,906	\$ 726,106	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GENERAL FUND LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND PROCEEDS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GRANTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PREMIER RESORT AREA TAX	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER SOURCE	\$ 93,750	\$ 80,000	\$ 70,000	\$ 107,000	\$ 45,000	\$ 395,750
TOTAL SOURCES	<u>\$ 93,750</u>	<u>\$ 80,000</u>	<u>\$ 70,000</u>	<u>\$ 107,000</u>	<u>\$ 45,000</u>	<u>\$ 395,750</u>
TOTAL AVAILABLE FUNDS	<u>\$ 885,856</u>	<u>\$ 850,906</u>	<u>\$ 826,906</u>	<u>\$ 849,906</u>	<u>\$ 771,106</u>	
USES BY PROGRAM/PROJECT						
Meters	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000
Hydrant Replacement	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
2007 Truck Replacement	\$ 11,200	\$ -	\$ -	\$ -	\$ -	\$ 11,200
Line Locator	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000
Still	\$ 3,750	\$ -	\$ -	\$ -	\$ -	\$ 3,750
Water Tower Mixer	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000
Hydrant Painting	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ 35,000
2016 Truck Replacement	\$ -	\$ 14,000	\$ -	\$ -	\$ -	\$ 14,000
Well No. 1 Rebuild/ Inspection	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000
2018 Truck Replacement	\$ -	\$ -	\$ 14,000	\$ -	\$ -	\$ 14,000
Well No. 2 Rebuild/Inspection	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000
Well No. 3 Rebuild/ Inspection	\$ -	\$ -	\$ -	\$ 37,000	\$ -	\$ 37,000
2020 Truck Replacement	\$ -	\$ -	\$ -	\$ 16,800	\$ -	\$ 16,800
TOTAL USES BY PROJECT	<u>\$ 114,950</u>	<u>\$ 94,000</u>	<u>\$ 84,000</u>	<u>\$ 123,800</u>	<u>\$ 45,000</u>	<u>\$ 461,750</u>
EST. ENDING FUND BALANCE	<u>\$ 770,906</u>	<u>\$ 756,906</u>	<u>\$ 742,906</u>	<u>\$ 726,106</u>	<u>\$ 726,106</u>	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Meters
Program/Project #:	Water1-2023-2027

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	10 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Scheduled Replacement

Description
Meters replacement per schedule and new meters for expanded services. New meters for planned developments and to replace worn or broken meters. Capitalized, despite individual costs and pieces being less than \$5000.

Justification
Meter replacement due to age, disrepair, and new meters for new builds.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Meters	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000
Total	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000
Total	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 45,000	\$ 225,000

Budget Impact/Other
Financial Impact to water fund of \$45,000. Funding from operating funds, annually.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Hydrant Replacement
Program/Project #:	Water2-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Replace three worn out, unrepairable hydrants and retain 2 as spares.

Justification
Hydrants are leaking and old. Hydrant purchases are about 6 months out and at this time we do not have any spares. Most hydrants are repaired with parts, but occasionally, hydrants need a full replacement. The equipment is capitalized.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Hydrant Replacement	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Total	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000
Total	\$ 25,000	\$ -	\$ -	\$ -	\$ -	\$ 25,000

Budget Impact/Other
Financial Impact to water fund of \$25,000. Funding from operating funds.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	2007 Truck Replacement
Program/Project #:	Water3-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	10 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Replace Worn Out Equipment

Description
Replace the 2007 Ford F150 with a truck of similar size. Regular cab. No special needs so we could purchase off the lot. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$40,000.

Justification
Truck is at/past it's useful life. Truck has significant rust. Tailgate fell off due to rust. Difficult to start in winter despite battery replacement. Electrical problems - dash lights fail randomly. Wear in seat and floorboards.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2007 Truck Replacement	\$ 11,200	\$ -	\$ -	\$ -	\$ -	\$ 11,200
Total	\$ 11,200	\$ -	\$ -	\$ -	\$ -	\$ 11,200
Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from water replacement funds - \$11,200.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Line Locator
Program/Project #:	Water4-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Replace the Metrotech line locator.

Justification
Equipment is used frequently. Equipment is not as sensitive as new equipment with new technology. New technology can identify depth as well.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Line Locator	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000
Total	\$ 10,000	\$ -	\$ -	\$ -	\$ -	\$ 10,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from water replacement funds - \$10,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Still
Program/Project #:	Water5-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Replace the Thermo Bamstead Pure Still with a medium sized model. The cost will be split with wastewater; amount below is only the water portion.

Justification
Use to expand the lab for drinking water testing so that does not have to be outsourced.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Still	\$ 3,750	\$ -	\$ -	\$ -	\$ -	\$ 3,750
Total	\$ 3,750	\$ -	\$ -	\$ -	\$ -	\$ 3,750

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ 3,750	\$ -	\$ -	\$ -	\$ -	\$ 3,750
Total	\$ 3,750	\$ -	\$ -	\$ -	\$ -	\$ 3,750

Budget Impact/Other
Financial impact to budget of \$3,750 in the 610-61500-403-630 water testing supplies account.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Water Tower Mixer
Program/Project #:	Water6-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Improve Policies/Procedures

Description
Install mixing pump in stand pipe water tower

Justification
Keeps the stand pipe from freezing in the winter and would allow well #3 to run in the winter if needed for capacity or in case of emergency with one of the other wells or other tower.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Water Tower Mixer	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000
Total	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000
Total	\$ 20,000	\$ -	\$ -	\$ -	\$ -	\$ 20,000

Budget Impact/Other
Financial impact to budget of \$20,000 in the 610-61500-361-650 account. This should cover installation and inspection

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Hydrant Painting
Program/Project #:	Water1-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Replace Worn Out Equipment

Description
Paint hydrants that require painting in the Village. Last completed in 2010 at a cost of \$17,955. This is a large maintenance project.

Justification
Extend life of the hydrants by having them properly painted. Project is outsourced to a company that has proper paint and processes.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Hydrant Painting	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ 35,000
Total	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ 35,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ 35,000
Total	\$ -	\$ 35,000	\$ -	\$ -	\$ -	\$ 35,000

Budget Impact/Other
Water operating funds \$35,000 in the hydrant maintenance line item - 610-61500-361-654.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	2016 Truck Replacement
Program/Project #:	Water2-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace the 2016 Chevy Silverado with a truck of similar size. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$50,000. Trade in 2016 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2016 Truck Replacement	\$ -	\$ 14,000	\$ -	\$ -	\$ -	\$ 14,000
Total	\$ -	\$ 14,000	\$ -	\$ -	\$ -	\$ 14,000
Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from water replacement funds - \$14,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Well No. 1 Rebuild/ Inspection
Program/Project #:	Water1-2025

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Part of the DNR's required maintenance schedule is to rebuild wells every 10 years. Last completed in 2015. Maintenance item.

Justification
Part of regular maintenance schedule.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Well No. 1 Rebuild/ Inspection	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000
Total	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000
Total	\$ -	\$ -	\$ 25,000	\$ -	\$ -	\$ 25,000

Budget Impact/Other
Financial impact to budget - \$25,000 in 610-61500-369-602. Replacement funds will be moved to operating funds to cover the cost of the rebuild.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	2018 Truck Replacement
Program/Project #:	Water2-2025

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace the 2018 Chevy Silverado 3500 with a truck of similar size. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$50,000. Trade in 2018 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2018 Truck Replacement	\$ -	\$ -	\$ 14,000	\$ -	\$ -	\$ 14,000
Total	\$ -	\$ -	\$ 14,000	\$ -	\$ -	\$ 14,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from water replacement funds - \$14,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Well No. 2 Rebuild/Inspection
Program/Project #:	Water1-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Part of the DNR's required maintenance schedule is to rebuild wells every 10 years. Last completed in 2015. Maintenance item.

Justification
Part of regular maintenance schedule.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Well No. 2 Rebuild/Inspection	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000
Total	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000
Total	\$ -	\$ -	\$ -	\$ 25,000	\$ -	\$ 25,000

Budget Impact/Other
Financial impact to budget - \$25,000 in 610-61500-369-602. Replacement funds will be moved to operating funds to cover the cost of the rebuild.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	Well No. 3 Rebuild/ Inspection
Program/Project #:	Water2-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Part of the DNR's required maintenance schedule is to rebuild wells every 10 years. Last completed in 2015. Maintenance item.

Justification
Part of regular maintenance schedule. Well No. 3 works harder than the other two wells which will likely result in more cost for replacements of impellors, screen, motor repair, etc.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Well No. 3 Rebuild/ Inspection	\$ -	\$ -	\$ -	\$ 37,000	\$ -	\$ 37,000
Total	\$ -	\$ -	\$ -	\$ 37,000	\$ -	\$ 37,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ 37,000	\$ -	\$ 37,000
Total	\$ -	\$ -	\$ -	\$ 37,000	\$ -	\$ 37,000

Budget Impact/Other
Financial impact to budget - \$37,000 in 610-61500-369-602. Replacement funds will be moved to operating funds to cover the cost of the rebuild.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Water
Program/Project Name:	2020 Truck Replacement
Program/Project #:	Water3-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Water
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace the 2020 Chevy Silverado 3500 with a truck of similar size and with tool/utility box. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$60,000. Trade in 2020 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2020 Truck Replacement	\$ -	\$ -	\$ -	\$ 16,800	\$ -	\$ 16,800
Total	\$ -	\$ -	\$ -	\$ 16,800	\$ -	\$ 16,800
Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from water replacement funds - \$16,800.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
WWTP

	2023	2024	2025	2026	2027	Total
EST. BEGINNING REPL FUND BALANCE	\$ 953,495	\$ 908,985	\$ 864,485	\$ 833,985	\$ 797,385	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GENERAL FUND LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND PROCEEDS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GRANTS	\$ -	\$ 10,000	\$ -	\$ -	\$ -	\$ 10,000
PREMIER RESORT AREA TAX	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER SOURCE	\$ 6,500	\$ 90,000	\$ -	\$ -	\$ -	\$ 96,500
TOTAL SOURCES	<u>\$ 6,500</u>	<u>\$ 100,000</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 106,500</u>
TOTAL AVAILABLE FUNDS	<u>\$ 959,995</u>	<u>\$ 1,008,985</u>	<u>\$ 864,485</u>	<u>\$ 833,985</u>	<u>\$ 797,385</u>	
USES BY PROGRAM/PROJECT						
2007 Truck Replacement	\$ 25,200	\$ -	\$ -	\$ -	\$ -	\$ 25,200
IDEXX E Coli Testing System	\$ 6,500	\$ -	\$ -	\$ -	\$ -	\$ 6,500
Still	\$ 3,750	\$ -	\$ -	\$ -	\$ -	\$ 3,750
Scum and Drain Pump	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Submersible Pump	\$ 10,560	\$ -	\$ -	\$ -	\$ -	\$ 10,560
Chemical Feed Pumps - Ferric	\$ -	\$ 14,000	\$ -	\$ -	\$ -	\$ 14,000
2nd Clarifier Cover	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
2016 Truck Replacement	\$ -	\$ 30,500	\$ -	\$ -	\$ -	\$ 30,500
Sludge Dryer System	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2018 Truck Replacement	\$ -	\$ -	\$ 30,500	\$ -	\$ -	\$ 30,500
2020 Truck Replacement	\$ -	\$ -	\$ -	\$ 36,600	\$ -	\$ 36,600
Incubator	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000
TOTAL USES BY PROJECT	<u>\$ 51,010</u>	<u>\$ 144,500</u>	<u>\$ 30,500</u>	<u>\$ 36,600</u>	<u>\$ 5,000</u>	<u>\$ 267,610</u>
EST. ENDING FUND BALANCE	<u>\$ 908,985</u>	<u>\$ 864,485</u>	<u>\$ 833,985</u>	<u>\$ 797,385</u>	<u>\$ 792,385</u>	

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	2007 Truck Replacement
Program/Project #:	WWTP1-2023

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	10 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description

Replace the 2007 Ford F150 with a truck of similar size. Regular cab. No special needs so we could purchase off the lot. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$40,000.

Justification

Truck is at/past it's useful life. Truck has significant rust. Tailgate fell off due to rust. Difficult to start in winter despite battery replacement. Electrical problems - dash lights fail randomly. Wear in seat and floorboards.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2007 Truck Replacement	\$ 25,200	\$ -	\$ -	\$ -	\$ -	\$ 25,200
Total	\$ 25,200	\$ -	\$ -	\$ -	\$ -	\$ 25,200

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other

Financial impact to budget of \$0. Remaining source of funds from wastewater capital funds - \$25,200.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	IDEXX E Coli Testing System
Program/Project #:	WWTP2-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	10 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Improve Policies/Procedures

Description
New system to test for E Coli and ensure adequate disinfection of plant effluent to meet DNR compliance.

Justification
Current method takes longer and is less accurate. Could also test water samples - expand lab for drinking water testing so it does not have to be outsourced.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
IDEXX E Coli Testing System	\$ 6,500	\$ -	\$ -	\$ -	\$ -	\$ 6,500
Total	\$ 6,500	\$ -	\$ -	\$ -	\$ -	\$ 6,500

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ 6,500	\$ -	\$ -	\$ -	\$ -	\$ 6,500
Total	\$ 6,500	\$ -	\$ -	\$ -	\$ -	\$ 6,500

Budget Impact/Other
Financial impact to budget - \$6,500 in the 620-62500-403-000 lab supplies account.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	Still
Program/Project #:	WWTP3-2023

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	5 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Scheduled Replacement

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Purchased in 2016. Replace the Thermo Bamstead Pure Still with a medium sized model. Cost split with water (the cost below is only the wastewater portion).

Justification
Frequent use. 5 year useful life. Use to expand lab for drinking water testing so that does not have to be outsourced.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Still	\$ 3,750	\$ -	\$ -	\$ -	\$ -	\$ 3,750
Total	\$ 3,750	\$ -	\$ -	\$ -	\$ -	\$ 3,750

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$3,750 in the 620-62500-403-000 wastewater lab supplies account, funds will be transferred from replacement funds to operating funds to cover the need.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	Scum and Drain Pump
Program/Project #:	WWTP4-2023

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Flygt 5hp pump. There are 2 and they were replaced in 2022. This would be the spare pump on hand.

Justification
Average life is 15 years. Spare pump that should be on hand. Downtime on this device is not acceptable.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Scum and Drain Pump	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000
Total	\$ 5,000	\$ -	\$ -	\$ -	\$ -	\$ 5,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget - \$5000 in WWTP Fixed Equipment Maintenance 620-62500-368-000. Replacement funds used to fund equipment.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	Submersible Pump
Program/Project #:	WWTP5-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Improve Policies/Procedures

Description
Flygt 4" Submersible Pump - model NP-3102.181 5hp. Total of 2 needed at a cost of \$5280 each. These would be spare pumps

Justification
Average life is 15 years. Corrosive wastewater eats through the mechanics and they need to be replaced.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Submersible Pump	\$ 10,560	\$ -	\$ -	\$ -	\$ -	\$ 10,560
Total	\$ 10,560	\$ -	\$ -	\$ -	\$ -	\$ 10,560

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from wastewater replacement funds - \$10,560.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	Chemical Feed Pumps - Ferric
Program/Project #:	WWTP1-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Current Equipment Obsolete

Description
Replacement of two chemical feed pumps for ferric. The ferric reduces the phosphates. Purchase pumps with a signal so they would work with current SCADA system and it is easier to monitor.

Justification
Pumps are seeing wear and increased maintenance needs.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Chemical Feed Pumps - Ferric	\$ -	\$ 14,000	\$ -	\$ -	\$ -	\$ 14,000
Total	\$ -	\$ 14,000	\$ -	\$ -	\$ -	\$ 14,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from wastewater replacement funds - \$14,000.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	2nd Clarifier Cover
Program/Project #:	WWTP2-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	20 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Increase Safety

Description
Addition of a cover to the second clarifier. Applying for DNR grant funds to support a portion of the cost.

Justification
The second clarifier cover would create needed redundancy that would reduce downtime if there was an equipment failure with the first clarifier. It would also allow us to run the second clarifier in the winter if necessary. Without the cover, the second clarifier gets algae buildup and this would correct that. Algae leads to high BOD and TSS which we want to avoid, a covered clarifier would completely eliminate the algae growth. It would also save operator time as we have to scrub the entire clarifier every day to keep the algae at a manageable level.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2nd Clarifier Cover	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000

Funding Sources	2023	2024	2025	2026	2027	Total
Grants		\$ 10,000				\$ 10,000
Other Source	\$ -	\$ 90,000	\$ -	\$ -	\$ -	\$ 90,000
Total	\$ -	\$ 100,000	\$ -	\$ -	\$ -	\$ 100,000

Budget Impact/Other
Financial impact to budget of \$0. Capital purchase funded by excess operating expenses and grant money.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	2016 Truck Replacement
Program/Project #:	WWTP3-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace the 2016 Chevy Silverado with a truck of similar size. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$50,000. Trade in 2016 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2016 Truck Replacement	\$ -	\$ 30,500	\$ -	\$ -	\$ -	\$ 30,500
Total	\$ -	\$ 30,500	\$ -	\$ -	\$ -	\$ 30,500

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from wastewater capital funds - \$30,500.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	Sludge Dryer System
Program/Project #:	WWTP4-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	20 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Years
Purpose:	New Program/Service

Description
A sludge dryer system would make our sludge into class A biosolids. They have the ability to turn sludge into 90% solids, and significantly decrease the needed storage space of the sludge, it also means we have less volume to dispose of. The product would become biosolids fertilizer and could be sold for revenue.
At this time, a cost is not being included. Megan is attending seminars in the near future to learn more about the process and associated costs.

Justification
Currently we are hauling all of our sludge to Sturgeon Bay for further treatment and land application. This is expensive and also not always a dependable way to dispose of sludge. We are relying on when they have room for the sludge and not when we need to get rid of it.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Sludge Dryer System	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of (unknown at this time) from excess operating funds.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	2018 Truck Replacement
Program/Project #:	WWTP1-2025

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace the 2018 Chevy Silverado 3500 with a truck of similar size. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$50,000. Trade in 2018 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2018 Truck Replacement	\$ -	\$ -	\$ 30,500	\$ -	\$ -	\$ 30,500
Total	\$ -	\$ -	\$ 30,500	\$ -	\$ -	\$ 30,500

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from water replacement funds - \$30,500.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	2020 Truck Replacement
Program/Project #:	WWTP1-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	10 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace the 2020 Chevy Silverado 3500 with a truck of similar size and with tool/utility box. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$60,000. Trade in 2020 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2020 Truck Replacement	\$ -	\$ -	\$ -	\$ 36,600	\$ -	\$ 36,600
Total	\$ -	\$ -	\$ -	\$ 36,600	\$ -	\$ 36,600

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from water replacement funds - \$36,600.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	WWTP
Program/Project Name:	Incubator
Program/Project #:	WWTP1-2027

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	WWTP
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	10 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Scheduled Replacement

Description
Replace Thermo Scientific Precision Incubator purchased in 2017

Justification
Scheduled replacement - 10 year life

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Incubator	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from wastewater replacement funds - \$5,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
Collection

	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$ 234,563	\$195,963	\$190,463	\$184,963	\$145,863	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GENERAL FUND LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND PROCEEDS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GRANTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PREMIER RESORT AREA TAX	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
OTHER SOURCE	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL SOURCES	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>
TOTAL AVAILABLE FUNDS	<u>\$ 234,563</u>	<u>\$195,963</u>	<u>\$190,463</u>	<u>\$184,963</u>	<u>\$145,863</u>	
USES BY PROGRAM/PROJECT						
2007 Truck Replacement	\$ 3,600	\$ -	\$ -	\$ -	\$ -	\$ 3,600
Generator	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000
2016 Truck Replacement	\$ -	\$ 5,500	\$ -	\$ -	\$ -	\$ 5,500
2018 Truck Replacement	\$ -	\$ -	\$ 5,500	\$ -	\$ -	\$ 5,500
Waters End Lift Station Pumps	\$ -	\$ -	\$ -	\$ 7,700	\$ -	\$ 7,700
Pheasant Park Lift Station Pumps	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700
Sunnyside Lift Station Pumps	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700
Forest Lane Lift Station Pumps	\$ -	\$ -	\$ -	\$ 7,700	\$ -	\$ 7,700
Crows Nest Lift Station Pumps	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700
2020 Truck Replacement	\$ -	\$ -	\$ -	\$ 6,600	\$ -	\$ 6,600
Little Sister Lift Station Pumps	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000
Fieldcrest Lift Station Upgrade	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000
TOTAL USES BY PROJECT	<u>\$ 38,600</u>	<u>\$ 5,500</u>	<u>\$ 5,500</u>	<u>\$ 39,100</u>	<u>\$ 115,000</u>	<u>\$ 203,700</u>
EST. ENDING FUND BALANCE	<u>\$ 195,963</u>	<u>\$190,463</u>	<u>\$184,963</u>	<u>\$145,863</u>	<u>\$ 30,863</u>	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	2007 Truck Replacement
Program/Project #:	Collection1-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	5 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Replace Worn Out Equipment

Description
Replace the 2007 Ford F150 with a truck of similar size. Regular cab. No special needs so we could purchase off the lot. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$40,000.

Justification
Truck is at/past it's useful life. Truck has significant rust. Tailgate fell off due to rust. Difficult to start in winter despite battery replacement. Electrical problems - dash lights fail randomly. Wear in seat and floorboards.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2007 Truck Replacement	\$ 3,600	\$ -				\$ 3,600
Total	\$ 3,600	\$ -	\$ -	\$ -	\$ -	\$ 3,600

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -				\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$3,600.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	Generator
Program/Project #:	Collection2-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	20 years years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Replace the Little Sister Lift Station generator, Kohler model 50R0Z271.

Justification
The current generator is from 1987. Parts to repair the generator are not manufactured anymore and are hard to find. The generator has had problems with it in the past and a lot of it has been rebuilt but it is aged and definetly due for a replacement. Difficult to start. Running reliably right now, but is definitely aged and worn.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Generator	\$ 35,000	\$ -				\$ 35,000
Total	\$ 35,000	\$ -	\$ -	\$ -	\$ -	\$ 35,000
Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -				\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$35,000.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION**

Category:	Collection
Program/Project Name:	2016 Truck Replacement
Program/Project #:	Collection1-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	5 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace the 2016 Chevy Silverado with a truck of similar size. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$50,000. Trade in 2016 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2016 Truck Replacement	\$ -	\$ 5,500				\$ 5,500
Total	\$ -	\$ 5,500	\$ -	\$ -	\$ -	\$ 5,500

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -				\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$5,500.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	2018 Truck Replacement
Program/Project #:	Collection1-2025

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	5 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Year
Purpose:	Scheduled Replacement

Description
Replace the 2018 Chevy Silverado 3500 with a truck of similar size. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$50,000. Trade in 2018 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2018 Truck Replacement	\$ -	\$ -	\$ 5,500			\$ 5,500
Total	\$ -	\$ -	\$ 5,500	\$ -	\$ -	\$ 5,500

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -				\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$5,500.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	Waters End Lift Station Pumps
Program/Project #:	Collection1-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Year
Purpose:	Scheduled Replacement

Description
Barnes 4SE 100GPM, 5hp pump. Two pumps for Lift Station and each cost \$3850.00

Justification
The average life is 15 years and these pumps are 25 years old. Most of the pumps don't run as often as others.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Waters End Lift Station Pumps	\$ -	\$ -	\$ -	\$ 7,700	\$ -	\$ 7,700
Total	\$ -	\$ -	\$ -	\$ 7,700	\$ -	\$ 7,700

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$7,700.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	Pheasant Park Lift Station Pumps
Program/Project #:	Collection2-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Scheduled Replacement

Description
Barnes XSGV 40GPM, 2hp pump. Two pumps for Lift Station and each cost \$2850.00

Justification
The pumps are about 25 years old and the normal life is about 15 years, but most of the pumps don't run as often as others.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Pheasant Park Lift Station Pumps	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700
Total	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$5,700.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	Sunnyside Lift Station Pumps
Program/Project #:	Collection3-2026

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Scheduled Replacement

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Barnes XSGV 40GPM, 2hp pump. Two pumps for Lift Station and each cost \$2850.00

Justification
The pumps are about 25 years old and the normal life is about 15 years, but most of the pumps don't run as often as others.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Sunnyside Lift Station Pumps	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700
Total	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$5,700.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	Forest Lane Lift Station Pumps
Program/Project #:	Collection4-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Scheduled Replacement

Description
Barnes XSGV 45GPM, 5hp pump. Two pumps for Lift Station and each cost \$3850.00

Justification
The pumps are about 25 years old and the normal life is about 15 years, but most of the pumps don't run as often as others.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Forest Lane Lift Station Pumps	\$ -			\$ 7,700		\$ 7,700
Total	\$ -	\$ -	\$ -	\$ 7,700	\$ -	\$ 7,700

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -			\$ -		\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$7,700.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	Crows Nest Lift Station Pumps
Program/Project #:	Collection5-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Scheduled Replacement

Description
Barnes SGV5002L 40GPM, 2hp pump. Two pumps for Lift Station and each cost \$2850.00

Justification
The pumps are about 25 years old and the normal life is about 15 years, but most of the pumps don't run as often as others.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Crows Nest Lift Station Pumps	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700
Total	\$ -	\$ -	\$ -	\$ 5,700	\$ -	\$ 5,700

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$5,700.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	2020 Truck Replacement
Program/Project #:	Collection6-2026

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Vehicle
Useful Life:	5 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Replace the 2020 Chevy Silverado 3500 with a truck of similar size and with tool/utility box. Amount below is for this fund's portion of the truck only. Total cost of the truck is \$60,000. Trade in 2020 or sell and use funds to offset purchase price.

Justification
Scheduled Replacement

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
2020 Truck Replacement	\$ -	\$ -	\$ -	\$ 6,600		\$ 6,600
Total	\$ -	\$ -	\$ -	\$ 6,600	\$ -	\$ 6,600

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -				\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$6,600.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	Little Sister Lift Station Pumps
Program/Project #:	Collection1-2027

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Scheduled Replacement

Description
Smith and Loveless 4B3B 300GPM, 20hp pump. Two pumps for Lift Station and each cost \$7500.00

Justification
The pumps are about 25 years old and the normal life is about 15 years. There are two pumps but they are a different kind compared to the smaller submersible lift stations.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Little Sister Lift Station Pumps	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 15,000	\$ 15,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$15,000.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Collection
Program/Project Name:	Fieldcrest Lift Station Upgrade
Program/Project #:	Collection2-2027

Department:	Collection
Contact:	Dan Klansky/Megan Holzem
Type:	Equipment
Useful Life:	15 years
Priority:	1 -Maintain/Public Want/Greater than 3 Years
Purpose:	Improve Policies/Procedures

Note: Program/Project Name and # Referenced on Category Sheet.

Description
Change out the lift station to a submersible lift station like the other smaller lift stations (waters end, sunny court, pheasant park, and admiral drive). Replace pumps and change pump housing from the current dry-well set up to the submersible setup.

Justification
Dry-well lift stations have more hazards when operating and repairing them.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Fieldcrest Lift Station Upgrade	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000
Total	\$ -	\$ -	\$ -	\$ -	\$ 100,000	\$ 100,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds from collection replacement funds - \$100,000.

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023-2027 Marina						
	2023	2024	2025	2026	2027	Total
EST. BEGINNING FUND BALANCE	\$694,000	\$355,185	\$ 305,185	\$ 275,185	\$ 275,185	
FUNDING SOURCES						
CAPITAL PROJECTS LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
GENERAL FUND LEVY	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
BOND PROCEEDS	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
GRANTS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
PREMIER RESORT AREA TAX	\$ 87,185	\$ -	\$ -	\$ -	\$ -	\$ 87,185
OTHER SOURCE	\$ 145,500	\$ 536,000	\$ 8,000	\$ -	\$ -	\$ 689,500
TOTAL SOURCES	<u>\$ 232,685</u>	<u>\$ 536,000</u>	<u>\$ 1,008,000</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,776,685</u>
TOTAL AVAILABLE FUNDS	<u>\$ 926,685</u>	<u>\$ 891,185</u>	<u>\$ 1,313,185</u>	<u>\$ 275,185</u>	<u>\$ 275,185</u>	
USES BY PROGRAM/PROJECT						
J Dock Crib Dock Repair	\$ 184,000	\$ -	\$ -	\$ -	\$ -	\$ 184,000
A Dock Electrical	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Pump Out Lines	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000
Commercial Vendor Building & Bathrooms	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Marina Office/Launch Parking Lot	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ 30,000
Boardwalk	\$ 62,500	\$ -	\$ -	\$ -	\$ -	\$ 62,500
C Dock Main Floating Dock	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000
C Dock Finger Piers	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ 11,000
Launch Ramp Piers	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000
Boathouse Remodel	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
B Dock Finger Piers	\$ -	\$ -	\$ 8,000	\$ -	\$ -	\$ 8,000
Marina Building Remodel	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
TOTAL USES BY PROJECT	<u>\$ 571,500</u>	<u>\$ 586,000</u>	<u>\$ 1,038,000</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 2,195,500</u>
EST. ENDING FUND BALANCE	<u>\$ 355,185</u>	<u>\$ 305,185</u>	<u>\$ 275,185</u>	<u>\$ 275,185</u>	<u>\$ 275,185</u>	

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027

PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	J Dock Crib Dock Repair
Program/Project #:	Marina1-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Equipment
Useful Life:	20 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Replace Worn Out Equipment

Description
Repair the breakwall at the southern end of the marina. Install new driven steel sheeting and concrete cap. DNR grant awarded. Majority of the work will be completed by Fall 2022 with finishing work in 2023. \$19,685 in grant funds were received in 2021. \$19,685 expected to be received in 2023.

Justification
Crib dock is disintegrating. Walkway between the land side and the original J dock has an original crib dock. The rocks and pilings are disintegrating. There are voids under the dock and it will eventually collapse. Install additional slips on the south side of the dock in front of the boathouse and dredge.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
J Dock Crib Dock Repair	\$ 184,000	\$ -	\$ -	\$ -	\$ -	\$ 184,000
Total	\$ 184,000	\$ -	\$ -	\$ -	\$ -	\$ 184,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ 88,000					
Grants	\$ 19,685	\$ -	\$ -	\$ -	\$ -	\$ 19,685
Total	\$ 107,685	\$ -	\$ -	\$ -	\$ -	\$ 107,685

Budget Impact/Other
Financial Impact to budget of \$0. Remaining source of funds from Marina reserve funds. \$19,685 has already been received. Donations/contributions from Shadow friends of \$83,500. The marina is committee to spending \$96,000. That leaves a gap of \$4,500 that the Marina Committee has to determined that needs to come from the Shadow friends.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027

PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	A Dock Electrical
Program/Project #:	Marina2-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Marina
Useful Life:	40 years
Priority:	5 -Mandated/Mission Driven/Immediate Need
Purpose:	Increase Safety

Description
Run electrical to new portion of A dock. Upgrade electrical along dock. Contain all electrical within conduit. Trench from building to dock to add amp. Install additional 100 amp pedestal on A dock for docking purposes and larger vessels in slips 26/27A. Permit needed for work. Electrical engineer to be hired to design and estimate cost of work. This project will need to be competitively bid.

Justification
A dock was extended in 2022. When electrical was going to be extended as well, we discovered the electrical is not in conduit for approximately half the dock. Inside the existing pedestals, there are old connections that need to be removed. Some pedestals need to be relocated and/or replaced. Pedestals from other docks can be repurposes so new pedestals don't need to be purchased. Old electrical connections, blue boxes, need to be removed along the dock. Hat Trick has requested a second 100 amp pedestal for docking purposes and to bring a 114 ft boat in.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
A Dock Electrical	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Total	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000
Total	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ 50,000

Budget Impact/Other
Financial impact to budget of \$50,000. The project would be included in dock maintenance in the 2023 budget and paid for with revenues from the marina.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	Pump Out Lines
Program/Project #:	Marina3-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Marina
Useful Life:	20 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Years
Purpose:	Improve Policies/Procedures

Description
Run dedicated lines along C, D, and J dock for pump outs. Follow the same method as was done on A dock. Pump would be put in the new commercial building. From pump, it would connect into the Village's collection system.

Justification
Eliminate need for pump out cart. Pump outs are faster and require fewer employees, cleaner and safer as well.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Pump Out Lines	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000
Total	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Funding Sources	2023	2024	2025	2026	2027	Total
Grants	\$ 67,500	\$ -	\$ -	\$ -	\$ -	\$ 67,500
Other Source	\$ 7,500	\$ -	\$ -	\$ -	\$ -	\$ 7,500
Total	\$ 75,000	\$ -	\$ -	\$ -	\$ -	\$ 75,000

Budget Impact/Other
Financial impact to budget of \$75,000 in dock maintenance in the 2023 budget and funded at 90% by grants with the remainder paid for with revenues from the marina. Currently seeking a grant for this project.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	Commercial Vendor Building & Bathrooms
Program/Project #:	Marina4-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Marina
Useful Life:	15 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Built in 2009 for \$15,500. Upgrades in 2011 for \$3,300. Construct a building with larger commercial space, public restrooms, and maintenance room. Use similar layout to waterfront park bathrooms. Maintenance room houses pump for C, D, and J dock pump out lines. Construction will require public bidding, permitting, and plan commission review. Meeting with commercial vendors in summer '22 to discuss charges to commercials vendors. Working to design the space and provide an estimate.

Justification
Commercial building is too small for current commercial vendors. Current building is a shed. Multiple commercial vendors are working out of a small space. New building would provide space to house a pump for the pump out system.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Commercial Vendor Building & Bathrooms	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000
Total	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial Impact to budget of \$0. Marina reserve funds would be used to cover the cost of the project and would be recouped with increased rates charged to commercial vendors in the coming years. A grant for a portion of the building is possible as it will have public restrooms. Grants funds will not be known until 2024.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	Boardwalk
Program/Project #:	Marina1-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Marina
Useful Life:	15 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Boardwalk was created in 2011 and is primarily a wooden boardwalk. Repair or replace the boardwalk. Working on solutions for replacement. Cost estimate below is a placeholder based on a prior estimate for repair.

Justification
The boards are rapidly deteriorating. Work is being done by staff to prolong use of current boardwalk but the boards are in such bad shape that they cannot be screwed into. Deteriorating faster than we thought. People walking over have been able to put a foot through the boards.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Boardwalk	\$ 62,500	\$ -	\$ -	\$ -	\$ -	62,500
Total	\$ 62,500	\$ -	\$ -	\$ -	\$ -	62,500

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	-
Total	\$ -	\$ -	\$ -	\$ -	\$ -	-

Budget Impact/Other
Financial Impact to budget of \$0. Remaining source of funds for \$62,500 from Marina reserve funds.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	C Dock Main Floating Dock
Program/Project #:	Marina2-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Equipment
Useful Life:	15 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Replace Worn Out Equipment

Description
Replace or plane and reinstall decking on C dock. Outsource job due to size. Maintenance expense in budget. Current cost is a placeholder because cost has not been estimated yet.

Justification
Decking is worn. Screws will not hold in some of the boards. Lifting boards are a danger to those walking on dock.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
C Dock Main Floating Dock	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000
Total	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000
Total	\$ -	\$ 30,000	\$ -	\$ -	\$ -	\$ 30,000

Budget Impact/Other
Financial impact to budget of \$30,000. The project would be included in dock maintenance in the 2024 budget and paid for with revenues from the marina.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	C Dock Finger Piers
Program/Project #:	Marina3-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Equipment
Useful Life:	15 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Replace Worn Out Equipment

Description
Replace decking on finger piers. Replace rub rails. Flip finger piers over and remove metal sheeting. Remove all foam. Install new floatation devices and fix structure to stiffen piers. Work can be done by existing staff during the off season. Will be a maintenance item in the expense budget.
A company has a product that is designed to repair this type of issue. It is a PVC device that would be inserted under the dock and secured. The PVC should add floatation and stability. Company is going to send a sample of the product to test on one of the piers.

Justification
Existing piers are deteriorating badly. Piers are very unstable. Sheet metal under piers is peeling away because screws/nails have rusted away. Foam floatation is deteriorating. Decking is worn. Rub rails are worn. Piers are bad enough that it should be done as soon as possible; however, because we are still trying to find and test a solution, this is scheduled for 2024.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
C Dock Finger Piers	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ 11,000
Total	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ 11,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ 11,000
Total	\$ -	\$ 11,000	\$ -	\$ -	\$ -	\$ 11,000

Budget Impact/Other
Financial impact to budget of \$11,000. The project would be included in dock maintenance in the 2024 budget and paid for with revenues from the marina.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	Launch Ramp Piers
Program/Project #:	Marina4-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Marina
Useful Life:	15 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Scheduled Replacement

Description
Launch ramp dock is made of 3 piers. Center pier and the two on the sides. Also realign south dock that also serves as C46 to allow for more space between end of dock and the C dock next to it. Purchase new and install.

Justification
Condition of the piers is deteriorating. Floatation material under the docks is eroding. Surface is also in rough shape. Sheeting is failing which is causing water to get in and ruin the floatation material.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Launch Ramp Piers	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000
Total	\$ -	\$ 45,000	\$ -	\$ -	\$ -	\$ 45,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial Impact to budget of \$0. Remaining source of funds for \$45,000 from Marina reserve funds.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	Boathouse Remodel
Program/Project #:	Marina5-2024

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Marina
Useful Life:	40 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Years
Purpose:	New Program/Service

Description
Remodel may happen related to the shadow but timeframe and specific are unknown. The project should have some museum/historical aspect that addresses the maritime and/or waterfront history of the village.
In 2023, the Village's Parks, Properties, and Streets Committee discussed the remodel of the boathouse into a museum. At that time it was determined that if the boathouse is converted into a maritime museum, it will be considered a village asset rather than a marina asset. In future years, this project may be removed from the marina CIP to the parks CIP. At that time, the Village will consider a commitment of funds.

Justification

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Boathouse Remodel	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000
Total	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000

Funding Sources	2023	2024	2025	2026	2027	Total
General Fund Levy	\$ -	\$ 5,000	\$ -	\$ -	\$ -	\$ 5,000
Other Source	\$ -	\$ 495,000	\$ -	\$ -	\$ -	\$ 495,000
Total	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ 500,000

Budget Impact/Other
Donations totaling \$500,000 for the completion of the remodel and \$5,000 from the general fund levy for the museum/historical/artifact aspect of the project.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	B Dock Finger Piers
Program/Project #:	Marina1-2025

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Equipment
Useful Life:	20 years
Priority:	3 -Preventive Need/Public Benefit/1-2 Years
Purpose:	Replace Worn Out Equipment

Description
Replace decking on finger piers. Replace rub rails. Flip finger piers over and remove metal sheeting. Remove all foam. Install new floatation devices and fix structure to stiffen piers. Work can be done by existing staff during the off season. Will be a maintenance item in the expense budget.

Justification
Existing piers are deteriorating but are not as bad as C dock. Stability of piers is deteriorating. Sheet metal under piers is peeling away because screws/nails have rusted away. Foam floatation is deteriorating. Decking is worn. Rub rails are worn.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
B Dock Finger Piers	\$ -	\$ -	\$ 8,000	\$ -	\$ -	\$ 8,000
Total	\$ -	\$ -	\$ 8,000	\$ -	\$ -	\$ 8,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ 8,000	\$ -	\$ -	\$ 8,000
Total	\$ -	\$ -	\$ 8,000	\$ -	\$ -	\$ 8,000

Budget Impact/Other
Financial Impact to budget of \$8,000. The project would be included in dock maintenance in the 2025 budget and paid for with revenues from the marina.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027

PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	Marina Building Remodel
Program/Project #:	Marina2-2025

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Marina
Useful Life:	40 years
Priority:	2 -Improvement Benefit/Desired Want/2-3 Years
Purpose:	New Program/Service

Description
Remodel of the marina office to include improved boaters lounge, restrooms, marina office and office space, employee only area, possibly second level employee housing. Need a work room or shop to perform repairs. Improved laundry space.

Justification
Lounge is inadequate in comparison to other marinas. Restrooms could be expanded. Marina office space and private office space is not currently available. Better electrical, plumbing and IT. No current employee area for breaks or meetings or anything.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Marina Building Remodel	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
Total	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000

Funding Sources	2023	2024	2025	2026	2027	Total
Bond Proceeds	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000
Total	\$ -	\$ -	\$ 1,000,000	\$ -	\$ -	\$ 1,000,000

Budget Impact/Other
General obligation bonds totaling \$1,000,000 supported with revenues of the marina but backed by the financing of the Village.

VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
2023-2027
PROJECT OR PROGRAM / DESCRIPTION & JUSTIFICATION

Category:	Marina
Program/Project Name:	Marina Office/Launch Parking Lot
Program/Project #:	Marina5-2023

Note: Program/Project Name and # Referenced on Category Sheet.

Department:	Marina
Contact:	Dave
Type:	Marina
Useful Life:	20 years
Priority:	4 -Critical Need/Obligated/Within 6-12 Months
Purpose:	Scheduled Replacement

Description
Mill and pave parking lot. Then stripe.

Justification
Lot is cracking and breaking.

Expenditures (Uses)	2023	2024	2025	2026	2027	Total
Marina Office/Launch Parking Lot	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ 30,000
Total	\$ -	\$ -	\$ 30,000	\$ -	\$ -	\$ 30,000

Funding Sources	2023	2024	2025	2026	2027	Total
Other Source	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Budget Impact/Other
Financial impact to budget of \$0. Remaining source of funds for \$30,000 from Marina reserve funds.

CAPITAL IMPROVEMENT PLAN PROPOSED BUDGET FUNDING

A detailed department by department listing of the individual program or project for the proposed budget year by category, identification number, priority ranking, and purpose. The data entered in these worksheets will be from the program and project worksheet. The individual line item is then identified by the requested, defunded, and final budget dollar amount. The budgeted dollar amounts will tie back to the amounts found on the individual category worksheet uses by category section.

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURE FUNDING							
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved
General Government	Land Acquisition Reserve	GENERAL1-2023-	1 -Maintain/Public Want/Greater than 3 Years	New Program/Service	\$ -		
General Government	Village Hall Future	GENERAL2-2023	2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete	\$ 100,000		
General Government	Village Website Design	GENERAL3-2023	5 -Mandated/Mission Driven/Immediate Need	Current Equipment Obsolete	\$ 35,000		
General Government	Wayfinding Signage	GENERAL4-2023-	3 -Preventive Need/Public Benefit/1-2 Years	New Program/Service	\$ -		
Budget Funding Totals					<u>\$ 135,000</u>	<u>\$ -</u>	<u>\$ -</u>

<u>PRIORITY</u>	<u>PURPOSE</u>
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Improve Policies/Procedures
	Reduce Personnel Time
	Increase Safety

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURE FUNDING							
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved
Fire Department	Chip Seal Parking Lot	FIRE1-2023	<u>4 -Critical Need/Obligated/Within 6-12 Months</u>	<u>Replace Worn Out Equipment</u>	\$ 37,000		
Budget Funding Totals					<u>\$ 37,000</u>	<u>\$ -</u>	<u>\$ -</u>

<u>PRIORITY</u>	<u>PURPOSE</u>
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Improve Policies/Procedures
	Reduce Personnel Time
	Increase Safety

CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURE FUNDING							
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved
Parks	Vehicle or Equipment Lift	Parks1-2023	4 -Critical Need/Obligated/Within 6-12 Months	Improve Policies/Procedures	\$ 12,000		
Parks	2011 Truck Replacement	Parks2-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 50,000		
Parks	Bus	Parks3-2023	5 -Mandated/Mission Driven/Immediate Need	Replace Worn Out Equipment	\$ 81,244		
Parks	Stump Grinder attachment	Parks4-2023	4 -Critical Need/Obligated/Within 6-12 Months	Improve Policies/Procedures	\$ 7,000		
Parks	Public Works Building	Parks5-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 2,500,000		
Parks	Waterfront Park Concrete	Parks6-2023	3 -Preventive Need/Public Benefit/1-2 Years	Increase Safety	\$ 18,550		
Parks	Parking Lot at 2313 Mill Rd	Parks2-2024	3 -Preventive Need/Public Benefit/1-2 Years	Expanded Service	-		
Budget Funding Totals					<u>2,668,794</u>	<u>\$ -</u>	<u>\$ -</u>

PRIORITY	PURPOSE
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Improve Policies/Procedures
	Reduce Personnel Time
	Increase Safety

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURE FUNDING							
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved
Streets	Northwoods Extension	Streets1-2023	4 -Critical Need/Obligated/Within 6-12 Months	Expanded Service	\$ 807,680		
Streets	S Highland	Streets2-2023	4 -Critical Need/Obligated/Within 6-12 Months	Scheduled Replacement	\$ 216,000		
Streets	Mill Rd East	Streets3-2023	4 -Critical Need/Obligated/Within 6-12 Months	Scheduled Replacement	\$ 186,000		
Streets	Bluffside Lane Storm Sewer Repair	Streets4-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 50,000		
Budget Funding Totals					<u>\$1,259,680</u>	<u>\$ -</u>	<u>\$ -</u>

<u>PRIORITY</u>	<u>PURPOSE</u>
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Improve Policies/Procedures
	Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURE FUNDING							
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved
Library	Library HVAC	Library1-2023	<u>4 -Critical Need/Obligated/Within 6-12 Months</u>	<u>Replace Worn Out Equipment</u>	\$ 6,540		
Library	Library Furnaces	Library2-2023	<u>3 -Preventive Need/Public Benefit/1-2 Years</u>	<u>Replace Worn Out Equipment</u>	\$ 9,400		
Library	Roof Repair	Library3-2023	<u>5 -Mandated/Mission Driven/Immediate Need</u>	<u>Replace Worn Out Equipment</u>	\$ 25,000		
Budget Funding Totals					<u>\$ 40,940</u>	<u>\$ -</u>	<u>\$ -</u>

PRIORITY	PURPOSE
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Improve Policies/Procedures
	Reduce Personnel Time
	Increase Safety

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURE FUNDING								
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved	
Water	Meters	Water1-2023-	5 -Mandated/Mission Driven/Immediate Need	Scheduled Replacement	\$ 45,000			
Water	Hydrant Replacement	Water2-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 25,000			
Water	2007 Truck Replacement	Water3-2023	5 -Mandated/Mission Driven/Immediate Need	Replace Worn Out Equipment	\$ 11,200			
Water	Line Locator	Water4-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 10,000			
Water	Still	Water5-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 3,750			
Water	Water Tower Mixer	Water6-2023	3 -Preventive Need/Public Benefit/1-2 Years	Improve Policies/Procedures	\$ 20,000			
Budget Funding Totals					<u>\$ 114,950</u>	<u>\$ -</u>	<u>\$ -</u>	

PRIORITY	PURPOSE
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Increase Safety
	Improve Policies/Procedures
	Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURES								
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved	
WWTP	2007 Truck Replacement	WWTP1-2023	5 -Mandated/Mission Driven/Immediate Need	Replace Worn Out Equipment	\$ 25,200			
WWTP	IDEXX E Coli Testing System	WWTP2-2023	4 -Critical Need/Obligated/Within 6-12 Months	Improve Policies/Procedures	\$ 6,500			
WWTP	Still	WWTP3-2023	4 -Critical Need/Obligated/Within 6-12 Months	Scheduled Replacement	\$ 3,750			
WWTP	Scum and Drain Pump	WWTP4-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 5,000			
WWTP	Submersible Pump	WWTP5-2023	4 -Critical Need/Obligated/Within 6-12 Months	Improve Policies/Procedures	\$ 10,560			
Budget Funding Totals					<u>\$ 51,010</u>	<u>\$ -</u>	<u>\$ -</u>	

PRIORITY	PURPOSE
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Increase Safety
	Improve Policies/Procedures
	Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURE FUNDING							
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved
Collection Collection	2007 Truck Replacement Generator	Collection1-2023	5 -Mandated/Mission Driven/Immediate Need	Replace Worn Out Equipment	\$ 3,600		
		Collection2-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 35,000		
Budget Funding Totals					<u>\$ 38,600</u>	<u>\$ -</u>	<u>\$ -</u>

<u>PRIORITY</u>	<u>PURPOSE</u>
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Increase Safety
	Improve Policies/Procedures
	Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN 2023 RECOMMENDED BUDGET CAPITAL EXPENDITURE FUNDING							
CATEGORY	PROGRAM/PROJECT	PROGRAM/ PROJECT #	PRIORITY	PURPOSE	2023 Requested	2023 Defunded	2023 Approved
Marina	J Dock Crib Dock Repair	Marina1-2023	5 -Mandated/Mission Driven/Immediate Need	Replace Worn Out Equipment	\$ 184,000		
Marina	A Dock Electrical	Marina2-2023	5 -Mandated/Mission Driven/Immediate Need	Scheduled Replacement	\$ 50,000		
Marina	Pump Out Lines	Marina3-2023	2 -Improvement Benefit/Desired Want/2-3 Years	Scheduled Replacement	\$ 75,000		
Marina	Commercial Vendor Building & Bathrooms	Marina4-2023	3 -Preventive Need/Public Benefit/1-2 Years	Scheduled Replacement	\$ 200,000		
Marina	Boardwalk	Marina5-2023	4 -Critical Need/Obligated/Within 6-12 Months	Replace Worn Out Equipment	\$ 62,500		
Budget Funding Totals					\$ 571,500	\$ -	\$ -

<u>PRIORITY</u>	<u>PURPOSE</u>
1 -Maintain/Public Want/Greater than 3 Years	Scheduled Replacement
2 -Improvement Benefit/Desired Want/2-3 Years	Current Equipment Obsolete
3 -Preventive Need/Public Benefit/1-2 Years	Replace Worn Out Equipment
4 -Critical Need/Obligated/Within 6-12 Months	New Program/Service
5 -Mandated/Mission Driven/Immediate Need	Expanded Service
	Improve Policies/Procedures
	Reduce Personnel Time
	Increase Safety

CAPITAL IMPROVEMENT PLAN BEYOND 2027

Beyond 5-Year Period

This section details department by department individual program and projects by category that are beyond the 5-Year CIP timeline. The year planned, ranking criteria, purpose, and estimated cost are identified.

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
CAPITAL EXPENDITURE PLANNING
BEYOND 5-YEAR PERIOD**

CATEGORY	PROGRAM/PROJECT	YEAR PLANNED	RANKING CRITERIA	PURPOSE	Estimated Cost
Fire	SCBA	2028	2 - Near Term	Replace Worn Out Equipment	\$ 60,000
Fire	Turn Out Gear	2029	2 - Near Term	Replace Worn Out Equipment	\$ 58,333
Fire	Engine 6	2030	3 - Long Term	Scheduled Replacement	\$ 416,667
Fire	Defibrilators	2031	3 - Long Term	Increase Safety	\$ 33,333
Fire	Brush 19	2033	4 - Future	Scheduled Replacement	\$ 66,667
Fire	Porta-count	2033	4 - Future	Scheduled Replacement	\$ 4,833
Fire	Gear Washer South	2035	4 - Future	Scheduled Replacement	\$ 2,667
Fire	Tower 22	2036	4 - Future	Scheduled Replacement	\$ 466,667
Fire	S-54	2038	4 - Future	Scheduled Replacement	\$ 20,000
Fire	Turn Out Gear	2039	4 - Future	Scheduled Replacement	\$ 58,333
Fire	Hose 25	2040	4 - Future	Scheduled Replacement	\$ 266,667
Fire	SCBA Airpacks	2043	4 - Future	Scheduled Replacement	\$ 60,000
Fire	Tanker 6-12	2044	4 - Future	Scheduled Replacement	\$ 188,333
Budget Funding Totals					<u>\$ 1,702,500</u>

RANKING CRITERIA FOR FUTURE PROJECTS - when resources are available:

- 1 - Immediate: May be moved to the 5-Year plan within a year.
- 2 - Near Term: May be moved to the 5-Year plan in 2-3 years.
- 3 - Long Term: May be moved to the 5-Year plan in 4-5 years.
- 4 - Future: Anticipated but not yet scheduled.

PURPOSE

Scheduled Replacement
Current Equipment Obsolete
Replace Worn Out Equipment
New Program/Service
Expanded Service
Increase Safety
Improve Policies/Procedures
Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN CAPITAL EXPENDITURE PLANNING BEYOND 5-YEAR PERIOD							
CATEGORY			PROGRAM/PROJECT	YEAR PLANNED	RANKING CRITERIA	PURPOSE	Estimated Cost
Parks	Parks	Dog Park - Small animal enclosure	2028	2 - Near Term	New Program/Service		\$ 15,000
Parks	Parks	Dog Park parking pad & concrete entrance	2028	2 - Near Term	New Program/Service		\$ 15,000
Parks	Equipment	16' Aluminum Boat	2028	2 - Near Term	Scheduled Replacement		\$ 5,000
Parks	Vehicle	Dump Truck Replacement	2030	3 - Long Term	Scheduled Replacement		\$ 75,000
Parks	Equipment	Replace 2020 Toro Lawnmower	2030	3 - Long Term	Scheduled Replacement		\$ 9,200
Parks	Equipment	2015 Golf Cart	2030	3 - Long Term	Scheduled Replacement		\$ 5,500
Parks	Facilities	Gazebo - Waterfront Park	2030	3 - Long Term	Scheduled Replacement		\$ 15,000
Parks	Equipment	Replace sports complex bleachers	2030	4 - Future	Scheduled Replacement		\$ 20,000
Parks	Equipment	Genie Lift - 2001	2030	3 - Long Term	Scheduled Replacement		\$ 130,000
Parks	Equipment	Replace 2018 51" Snowblower Attachment Z51B	2033	4 - Future	Scheduled Replacement		\$ 9,000
Parks	Equipment	Replace Trackless MT7-1273 (2018)	2033	3 - Long Term	Scheduled Replacement		\$ 125,000
Parks	Equipment	Replace 60" Power Angling Sweeper (2018)	2033	3 - Long Term	Scheduled Replacement		\$ 7,000
Parks	Equipment	Replace 2011 Ryan Tracaire Lawn Aerator	2035	3 - Long Term	Scheduled Replacement		\$ 5,200
Parks	Equipment	2020 Golf Cart	2035	4 - Future	Scheduled Replacement		\$ 7,500
Parks	Equipment	Sports Complex playground equipment	2035	4 - Future	Scheduled Replacement		\$ 15,000
Parks	Equipment	Athletic Field Lights	2035	3 - Long Term	Replace Worn Out Equipment		\$ 150,000
Parks	Equipment	John Deere Large Area Riding Mower/Blower/Sweeper	2036	3 - Long Term	Scheduled Replacement		\$ 45,000
Budget Funding Totals							<u>\$ 653,400</u>

RANKING CRITERIA FOR FUTURE PROJECTS - when resources are available:	PURPOSE
1 - Immediate: May be moved to the 5-Year plan within a year.	Scheduled Replacement
2 - Near Term: May be moved to the 5-Year plan in 2-3 years.	Current Equipment Obsolete
3 - Long Term: May be moved to the 5-Year plan in 4-5 years.	Replace Worn Out Equipment
4 - Future: Anticipated but not yet scheduled.	New Program/Service
	Expanded Service
	Increase Safety
	Improve Policies/Procedures
	Reduce Personnel Time

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
CAPITAL EXPENDITURE PLANNING
BEYOND 5-YEAR PERIOD**

CATEGORY	PROGRAM/PROJECT	YEAR PLANNED	RANKING CRITERIA	PURPOSE	Estimated Cost
Streets	Applewood Rd - Termination to Canterbury	7	4 - Future	Scheduled Replacement	\$ 34,416
Streets	Autumn Ct - Termination to Woodcrest	6	4 - Future	Scheduled Replacement	\$ 43,704
Streets	Ava Hope Court - Ava Hope Trl/Northwoods to termination	10	4 - Future	Scheduled Replacement	\$ 10,350
Streets	Ava Hope Trl - Ava Hope Ct/Northwoods to Termination	10	4 - Future	Scheduled Replacement	\$ 11,940
Streets	S Bay Shore Dr - Bayshore Dr/Country Ln/St Hwy 42 to Little Sister Rd	8	4 - Future	Scheduled Replacement	\$ 36,597
Streets	Birchwood Dr - Scandia Rd to Bluebird Ln	5	3 - Long Term	Scheduled Replacement	\$ 25,350
Streets	Birchwood Dr - Bluebird to Raven	5	3 - Long Term	Scheduled Replacement	\$ 1,590
Streets	Birchwood Dr - Raven to Trillium	5	3 - Long Term	Scheduled Replacement	\$ 14,559
Streets	Birchwood Dr - Trillium to Hill	5	3 - Long Term	Scheduled Replacement	\$ 44,340
Streets	Bittersweet Ln - Termination to Highland	6	4 - Future	Scheduled Replacement	\$ 7,125
Streets	Bluebird Ln - Birchwood to Cardinal	5	3 - Long Term	Scheduled Replacement	\$ 8,712
Streets	Bluffside Ln - Hwy 42 to Maple Dr	2	1 - Immediate	Scheduled Replacement	\$ 22,824
Streets	Canterbury Ln - Hwy 57 to Applewood	6	4 - Future	Scheduled Replacement	\$ 18,792
Streets	Canterbury Ln - Applewood to Termination	9	4 - Future	Scheduled Replacement	\$ 27,687
Streets	Cardinal Ct - termination to Bluebird Ln	5	3 - Long Term	Scheduled Replacement	\$ 14,250
Streets	Cardinal Ct - Bluebird to termination	5	3 - Long Term	Scheduled Replacement	\$ 13,926
Streets	Cherrywood Ct - Cherrywood Ln to termination	7	4 - Future	Scheduled Replacement	\$ 31,350
Streets	Cherrywood Ln - Koessl Ln to Cherrywood	9	4 - Future	Scheduled Replacement	\$ 20,922
Streets	Cherrywood Ln - Cherrywood Ct to Highland	9	4 - Future	Scheduled Replacement	\$ 10,461
Streets	Cherrywood Ln - Highland to Fieldcrest	9	4 - Future	Scheduled Replacement	\$ 12,210
Streets	Claflin Ln - ZZ to Mill	5	3 - Long Term	Scheduled Replacement	\$ 11,088
Streets	Country Ln - Flint Ridge to S Bay Shore Dr	7	4 - Future	Scheduled Replacement	\$ 113,256
Streets	Country Walk Dr - 57 to Koessl	8	4 - Future	Scheduled Replacement	\$ 57,666
Streets	Country Walk Dr - Koessl to S Bay Shore Dr	8	4 - Future	Scheduled Replacement	\$ 37,716
Streets	Fieldcrest Ln - Fieldcrest Rd to Termination	8	4 - Future	Scheduled Replacement	\$ 9,945
Streets	Fieldcrest Rd - Country Ln to Fieldcrest Ln	8	4 - Future	Scheduled Replacement	\$ 91,650
Streets	Fieldcrest Rd - Fieldcrest Ln to Cherrywood Ln	8	4 - Future	Scheduled Replacement	\$ 18,180
Streets	Fieldcrest Rd - Cherrywood Ln to 42	8	4 - Future	Scheduled Replacement	\$ 8,970
Streets	Fieldcrest Rd - Cherrywood to 42	7	4 - Future	Scheduled Replacement	\$ 42,750
Streets	Flint Ridge Rd - Woodcrest to Orchard	7	4 - Future	Scheduled Replacement	\$ 96,948
Streets	Forest Ln - 42 to Peterson Ct	6	4 - Future	Scheduled Replacement	\$ 7,668
Streets	Forest Ln - Peterson Ct to Woodland Dr	6	4 - Future	Scheduled Replacement	\$ 16,578
Streets	Forest Ln - Woodland to termination	6	4 - Future	Scheduled Replacement	\$ 4,266
Streets	Forest Ln - Woodland to termination	6	4 - Future	Scheduled Replacement	\$ 25,677
Streets	Gateway Dr - 42 to 57	10	4 - Future	Scheduled Replacement	\$ 18,302
Streets	Golf Rd - Little Sister to termination	5	3 - Long Term	Scheduled Replacement	\$ 48,227
Streets	N Highland Rd - Sunnyside to Jungwirth	5	3 - Long Term	Scheduled Replacement	\$ 12,660
Streets	N Highland Rd - Jungwirth to 42	5	3 - Long Term	Scheduled Replacement	\$ 26,940
Streets	S Highland Rd - Cherrywood Ln to Bittersweet Ln	6	4 - Future	Scheduled Replacement	\$ 34,848
Streets	S Highland Rd - Cherrywood Ln to Bittersweet Ln	7	4 - Future	Scheduled Replacement	\$ 4,740
Streets	S Highland Rd - Bittersweet Ln to 42	5	3 - Long Term	Scheduled Replacement	\$ 17,430
Streets	Hill Rd - Hill to N Spring	5	3 - Long Term	Scheduled Replacement	\$ 12,660
Streets	Hill Rd - N Spring to 42	5	3 - Long Term	Scheduled Replacement	\$ 11,100
Streets	Jungwirth Ct - N Highland to termination	8	4 - Future	Scheduled Replacement	\$ 19,005
Streets	Koessl Ln - Country Walk to Cherrywood Ln	5	3 - Long Term	Scheduled Replacement	\$ 17,424
Streets	Koessl Ln - Country Walk to Cherrywood Ln	5	3 - Long Term	Scheduled Replacement	\$ 12,660
Streets	Little Sister Rd - Pebble Beach to Golf	9	4 - Future	Scheduled Replacement	\$ 57,030
Streets	Little Sister Rd - Golf Rd to termination	3	2 - Near Term	Scheduled Replacement	\$ 28,508
Streets	Little Sister Rd - Golf Rd to termination	3	2 - Near Term	Scheduled Replacement	\$ 23,760
Streets	Maple Dr - 42 to Bluffside	5	3 - Long Term	Scheduled Replacement	\$ 33,264
Streets	Maple Dr - Bluffside to Parkview	4	2 - Near Term	Scheduled Replacement	\$ 6,636
Streets	Maple Dr - Parkview to Mill Rd	4	2 - Near Term	Scheduled Replacement	\$ 11,088

Streets	Mariners Pointe Dr - Sister Bluff to Sunnyside	8	4 - Future	Scheduled Replacement	\$	36,663
Streets	Mariners Pointe Dr - Sunnyside to termination	8	4 - Future	Scheduled Replacement	\$	7,854
Streets	Meadow Ln - 42 to termination	5	3 - Long Term	Scheduled Replacement	\$	25,650
Streets	Meadow Ln - 42 to termination	5	3 - Long Term	Scheduled Replacement	\$	8,568
Streets	Mill Rd - Maple Dr to Parkview Ct	5	3 - Long Term	Scheduled Replacement	\$	20,922
Streets	Mill Rd - Parkview Ct to end	5	3 - Long Term	Scheduled Replacement	\$	10,461
Streets	Mill Rd - 42 to end	5	3 - Long Term	Scheduled Replacement	\$	12,210
Streets	Mill Rd - 42 to Spring	7	4 - Future	Scheduled Replacement	\$	15,840
Streets	Mill Rd - Spring to Claflin	8	4 - Future	Scheduled Replacement	\$	6,636
Streets	Mill Rd - Claflin to Woodcrest	8	4 - Future	Scheduled Replacement	\$	15,840
Streets	Mill Rd - Claflin to Woodcrest	8	4 - Future	Scheduled Replacement	\$	16,497
Streets	Mill Rd - Claflin to Woodcrest	5	3 - Long Term	Scheduled Replacement	\$	34,200
Streets	Northwoods Dr - 57 to Ava Hope	9	4 - Future	Scheduled Replacement	\$	33,540
Streets	Northwoods Dr - 57 to Ava Hope	10	4 - Future	Scheduled Replacement	\$	4,470
Streets	Orchard - Flint Ridge to 57	5	3 - Long Term	Scheduled Replacement	\$	76,020
Streets	Parkview Ct - Parkview to Mill	4	2 - Near Term	Scheduled Replacement	\$	4,740
Streets	Parkview Dr - Maple to Parkview Ct	4	2 - Near Term	Scheduled Replacement	\$	9,510
Streets	Parkview Dr - Parkview Ct to termination	4	2 - Near Term	Scheduled Replacement	\$	6,336
Streets	Pebble Beach Rd - Pebble Beach Rd to termination	8	4 - Future	Scheduled Replacement	\$	15,192
Streets	Peterson Ct - Forest to termination	7	4 - Future	Scheduled Replacement	\$	10,197
Streets	Pheasant Ct - Raven Ln to termination	6	4 - Future	Scheduled Replacement	\$	17,430
Streets	Pheasant Ct - Raven Ln to termination	6	4 - Future	Scheduled Replacement	\$	11,070
Streets	Post Office Ln	6	4 - Future	Scheduled Replacement	\$	8,229
Streets	Raven Ln - Pheasant to Birchwood	6	4 - Future	Scheduled Replacement	\$	11,100
Streets	Scandia Rd - Woodcrest to Birchwood	9	4 - Future	Scheduled Replacement	\$	15,840
Streets	Scandia Rd - Birchwood to N Spring	9	4 - Future	Scheduled Replacement	\$	15,840
Streets	Scandia Rd - N Spring to 42	8	4 - Future	Scheduled Replacement	\$	20,580
Streets	Sister Bluff Dr - Bayshore Dr to Mariners Pointe Dr	7	4 - Future	Scheduled Replacement	\$	14,040
Streets	N Spring Rd - Scandia Rd to Hill Rd	6	4 - Future	Scheduled Replacement	\$	80,790
Streets	S Spring Rd - Mill to Sunset	2	1 - Immediate	Scheduled Replacement	\$	50,700
Streets	Sunny Ct - Sunnyside Rd to termination	4	2 - Near Term	Scheduled Replacement	\$	17,424
Streets	Sunnyside Rd - Sunny Ct to termination	6	4 - Future	Scheduled Replacement	\$	3,498
Streets	Sunnyside Rd - Sunny Ct to N Highland Rd	6	4 - Future	Scheduled Replacement	\$	13,926
Streets	Sunnyside Rd - N Highland Rd to Mariners Pointe Dr	6	4 - Future	Scheduled Replacement	\$	11,880
Streets	Sunset Dr - 42 to S Spring	8	4 - Future	Scheduled Replacement	\$	17,424
Streets	Sunset Dr - S Spring to Woodcrest	5	3 - Long Term	Scheduled Replacement	\$	43,560
Streets	Trillium Ln - Birchwood Dr to Hill Rd	5	3 - Long Term	Scheduled Replacement	\$	50,523
Streets	Westwood Dr - Bayshore Dr to Woodland	5	3 - Long Term	Scheduled Replacement	\$	9,990
Streets	Westwood Dr - Bayshore Dr to Woodland	5	3 - Long Term	Scheduled Replacement	\$	31,680
Streets	Westwood Dr - Woodland to termination	6	4 - Future	Scheduled Replacement	\$	17,118
Streets	Westwood Dr - Woodland to termination	6	4 - Future	Scheduled Replacement	\$	18,522
Streets	Woodcrest - Plateau to ZZ	10	4 - Future	Scheduled Replacement	\$	119,407
Streets	Woodcrest - ZZ to Mill	9	4 - Future	Scheduled Replacement	\$	10,890
Streets	Woodcrest - Mill to unknown	9	4 - Future	Scheduled Replacement	\$	14,460
Streets	Woodcrest - Unknown to Autumn Ct	9	4 - Future	Scheduled Replacement	\$	14,250
Streets	Woodcrest - Autumn Ct to Sunset	9	4 - Future	Scheduled Replacement	\$	28,500
Streets	Woodcrest - Sunset to Scandia	9	4 - Future	Scheduled Replacement	\$	12,660
Streets	Woodland - Forest to Westwood	6	4 - Future	Scheduled Replacement	\$	18,522
Storm Sewer	Mill Rd to Maple	1	1 - Immediate	Replace Worn Out Equipment	\$	-
Storm Sewer	Maple Drive to Bluffside	1	1 - Immediate	Replace Worn Out Equipment	\$	-
Storm Sewer	Bluffside Ln - Maple to 42	1	1 - Immediate	Replace Worn Out Equipment	\$	-
Budget Funding Totals						<u>\$ 2,420,943</u>

RANKING CRITERIA FOR FUTURE PROJECTS - when resources are available:

- 1 - Immediate: May be moved to the 5-Year plan within a year.
- 2 - Near Term: May be moved to the 5-Year plan in 2-3 years.
- 3 - Long Term: May be moved to the 5-Year plan in 4-5 years.
- 4 - Future: Anticipated but not yet scheduled.

PURPOSE

Scheduled Replacement
Current Equipment Obsolete
Replace Worn Out Equipment
New Program/Service
Expanded Service
Increase Safety
Improve Policies/Procedures
Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN CAPITAL EXPENDITURE PLANNING BEYOND 5-YEAR PERIOD					
CATEGORY	PROGRAM/PROJECT	YEAR PLANNED	RANKING CRITERIA	PURPOSE	Estimated Cost
Library	Roof	2030	<u>3 - Long Term</u>	<u>Scheduled Replacement</u>	\$38,000
Budget Funding Totals					<u>\$38,000</u>

<u>RANKING CRITERIA FOR FUTURE PROJECTS - when resources are available:</u>	<u>PURPOSE</u>
1 - Immediate: May be moved to the 5-Year plan within a year.	Scheduled Replacement
2 - Near Term: May be moved to the 5-Year plan in 2-3 years.	Current Equipment Obsolete
3 - Long Term: May be moved to the 5-Year plan in 4-5 years.	Replace Worn Out Equipment
4 - Future: Anticipated but not yet scheduled.	New Program/Service
	Expanded Service
	Increase Safety
	Improve Policies/Procedures
	Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN CAPITAL EXPENDITURE PLANNING BEYOND 5-YEAR PERIOD					
CATEGORY	PROGRAM/PROJECT	YEAR PLANNED	RANKING CRITERIA	PURPOSE	Estimated Cost
Water	Jungwith Court Water Tower Repainting	2030	4 - Future	Scheduled Replacement	\$130,000
				Budget Funding Totals	<u>\$130,000</u>

RANKING CRITERIA FOR FUTURE PROJECTS - when resources are available:	PURPOSE
1 - Immediate: May be moved to the 5-Year plan within a year.	Scheduled Replacement
2 - Near Term: May be moved to the 5-Year plan in 2-3 years.	Current Equipment Obsolete
3 - Long Term: May be moved to the 5-Year plan in 4-5 years.	Replace Worn Out Equipment
4 - Future: Anticipated but not yet scheduled.	New Program/Service
	Expanded Service
	Increase Safety
	Improve Policies/Procedures
	Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN CAPITAL EXPENDITURE PLANNING BEYOND 5-YEAR PERIOD					
CATEGORY	PROGRAM/PROJECT	YEAR PLANNED	RANKING CRITERIA	PURPOSE	Estimated Cost
WWTP	Hach Fixed Refridgerated Sampler 900 SDR1-8971SD controller on 115V	2029	3 - Long Term	Scheduled Replacement	\$ 6,966
WWTP	Tuttnauer- Digital Autoclave Model #2340M- 2014 purchased	2029	3 - Long Term	Scheduled Replacement	\$ 7,600
WWTP	Lakeside Screen Grit	2030	3 - Long Term	Scheduled Replacement	\$ 60,000
WWTP	Rosemount 8750WA Magnetic Flowmeter from Energenics	2030	2 - Near Term	Scheduled Replacement	\$ 11,865
WWTP	Chemical Feed Equipment - Polymer for sludge building	2030	3 - Long Term	Replace Worn Out Equipment	\$ 22,000
WWTP	Pumper Truck/Sludge Truck - 1991	2031	3 - Long Term	Replace Worn Out Equipment	\$ 95,000
WWTP	Forceflow SO2 Scales - 2017 purchased (per pair cost)	2032	3 - Long Term	Scheduled Replacement	\$ 6,000
WWTP	Forceflow CL2 Scales - 2017 purchased (per pair cost)	2032	3 - Long Term	Scheduled Replacement	\$ 6,000
WWTP	Cummins Diesel Generator - 2004 purchased Model number DFCC-5679314 / Series number G040673211	2032	3 - Long Term	Scheduled Replacement	\$ 75,000
WWTP	Kohler Portable Generator 20KW -2004 purchased	2032	2 - Near Term	Replace Worn Out Equipment	\$ 30,000
WWTP	Tuthill Gear Pump- Concentrator- Solids Pump - 2020 purchased	2035	3 - Long Term	Scheduled Replacement	\$ 15,797
WWTP	Pretreatment Screen	2036	3 - Long Term	Replace Worn Out Equipment	\$ 72,200
WWTP	Pretreatment Influent Flow Meter	2036	3 - Long Term	Replace Worn Out Equipment	\$ 7,100
WWTP	Pump & Grit Conveyor	2036	3 - Long Term	Replace Worn Out Equipment	\$ 50,200
WWTP	Septage & Flow Equalization Pumps	2036	3 - Long Term	Replace Worn Out Equipment	\$ 27,105
WWTP	Septage Receiving Pump	2037	3 - Long Term	Scheduled Replacement	\$ 10,000
WWTP	Furnace	2037	3 - Long Term	Scheduled Replacement	\$ 8,000
WWTP	Sludge Blowers	2037	4 - Future	Scheduled Replacement	\$ 16,000
MLS	Raw Wastewater Pumps	2038	3 - Long Term	Replace Worn Out Equipment	\$ 100,000
MLS	MLS Generator	2038	3 - Long Term	Replace Worn Out Equipment	\$ 67,250
WWTP	Disinfection Equipment	2039	3 - Long Term	Replace Worn Out Equipment	\$ 280,000
WWTP	WAS Pump - Tuthill HD120IA1PC0B1BA000 - Concentrator Solids Pump	2040	3 - Long Term	Replace Worn Out Equipment	\$ 16,700
WWTP	Disc Aerators	2040	3 - Long Term	Replace Worn Out Equipment	\$ 150,000
WWTP	Grit chamber equipment	2040	3 - Long Term	Scheduled Replacement	\$ 57,600
WWTP	Grit Classifier equipment	2040	3 - Long Term	Scheduled Replacement	\$ 41,272
WWTP	Grit equipment painting & coating	2040	3 - Long Term	Scheduled Replacement	\$ 20,250
WWTP	Catwalk Repaint/Replace	2040	2 - Near Term	Replace Worn Out Equipment	\$ 255,000
WWTP	Driveway Asphlat - remove and replace	2045	4 - Future	Scheduled Replacement	\$ 252,540
WWTP	Flooring Replacement in Service Building	2045	4 - Future	Scheduled Replacement	\$ 8,829
WWTP	Pretreatment Building Roof Replacement	2045	4 - Future	Scheduled Replacement	\$ 7,460
WWTP	Service Building Roof Replacement	2045	4 - Future	Scheduled Replacement	\$ 46,160
WWTP	Solids Building Roof Replacement	2045	4 - Future	Scheduled Replacement	\$ 8,350
WWTP	Septage Receiving/Flow Equalization Tank	2045	4 - Future	Scheduled Replacement	\$ 38,797
WWTP	Aeration Tank	2045	4 - Future	Scheduled Replacement	\$ 245,000
WWTP	Secondary Clarifier Tank	2045	4 - Future	Scheduled Replacement	\$ 110,282
WWTP	Secondary Clarifier No. 1 Roof Gel Coating	2045	4 - Future	Scheduled Replacement	\$ 10,625
WWTP	RAS Pump Motor Replacement	2045	4 - Future	Scheduled Replacement	\$ 31,600
WWTP	NPW Pump Replacement	2045	4 - Future	Scheduled Replacement	\$ 10,019
WWTP	UV Disinfection System	2045	4 - Future	Scheduled Replacement	\$ 233,989
WWTP	Huber Sludge Thickener	2045	4 - Future	Scheduled Replacement	\$ 199,713
WWTP	New Course Bubble Aeration System Work for Sludge Storage Tank	2045	4 - Future	Scheduled Replacement	\$ 41,559
WWTP	Recoating of the Existing Exterior Piping	2045	4 - Future	Scheduled Replacement	\$ 9,848
MLS	Fuel Storage Tank	2050	3 - Long Term	Replace Worn Out Equipment	\$ 34,000
WWTP	Sewage Ejectors	2050	3 - Long Term	Replace Worn Out Equipment	\$ 20,300
Budget Funding Totals					<u>\$ 2,823,976</u>

<u>RANKING CRITERIA FOR FUTURE PROJECTS - when resources are available:</u>	<u>PURPOSE</u>
1 - Immediate: May be moved to the 5-Year plan within a year.	Scheduled Replacement
2 - Near Term: May be moved to the 5-Year plan in 2-3 years.	Current Equipment Obsolete
3 - Long Term: May be moved to the 5-Year plan in 4-5 years.	Replace Worn Out Equipment
4 - Future: Anticipated but not yet scheduled.	New Program/Service
	Expanded Service
	Increase Safety
	Improve Policies/Procedures
	Reduce Personnel Time

VILLAGE OF SISTER BAY CAPITAL IMPROVEMENT PLAN CAPITAL EXPENDITURE PLANNING BEYOND 5-YEAR PERIOD					
CATEGORY	PROGRAM/PROJECT	YEAR PLANNED	RANKING CRITERIA	PURPOSE	Estimated Cost
Collection	Goulds 4" submersible sewage pump (2 ea) WELS	2029	<u>3 - Long Term</u>	Scheduled Replacement	\$ 22,000
Collection	Pumps - Gorman Rupp -XV6460-B - 1000GPM	2034	<u>4 - Future</u>	Scheduled Replacement	\$ 5,000
Collection	Pumps - Gorman Rupp -XV63B60-B - 300GPM	2034	<u>4 - Future</u>	Scheduled Replacement	\$ 5,000
Collection	Control Panels for all six (6) Lift Stations	2040	<u>4 - Future</u>	Scheduled Replacement	\$ 130,800
Budget Funding Totals					<u>\$ 162,800</u>

<u>RANKING CRITERIA FOR FUTURE PROJECTS - when resources are available:</u> 1 - Immediate: May be moved to the 5-Year plan within a year. 2 - Near Term: May be moved to the 5-Year plan in 2-3 years. 3 - Long Term: May be moved to the 5-Year plan in 4-5 years. 4 - Future: Anticipated but not yet scheduled.	<u>PURPOSE</u> Scheduled Replacement Current Equipment Obsolete Replace Worn Out Equipment New Program/Service Expanded Service Increase Safety Improve Policies/Procedures Reduce Personnel Time
--	---

**VILLAGE OF SISTER BAY
CAPITAL IMPROVEMENT PLAN
CAPITAL EXPENDITURE PLANNING
BEYOND 5-YEAR PERIOD**

CATEGORY	PROGRAM/PROJECT	YEAR PLANNED	RANKING CRITERIA	PURPOSE	Estimated Cost
Marina	2008 Club Car Carryall	2028	3 - Long Term	Scheduled Replacement	\$ 6,500
Marina	E Dock Pier	2030	3 - Long Term	Scheduled Replacement	\$ 11,600
Marina	J Dock Finger Piers - 32 ft (6)	2032	3 - Long Term	Scheduled Replacement	\$ 25,000
Marina	J Dock Finger Piers - 40 ft (6)	2032	3 - Long Term	Scheduled Replacement	\$ 35,000
Marina	2013 Club Car golf cart - purchased 2018	2033	3 - Long Term	Increase Safety	\$ 6,500
Marina	D Dock Main Pier - fixed - 4620 sq ft	2035	4 - Future	Replace Worn Out Equipment	\$ 75,000
Marina	D Dock Finger Piers - 40 ft (9)	2035	4 - Future	Replace Worn Out Equipment	\$ 23,600
Marina	D Dock Finger Piers - 50 ft (1)	2035	4 - Future	Replace Worn Out Equipment	\$ 18,000
Marina	D Dock Finger Piers - 60 ft (2)	2035	4 - Future	Replace Worn Out Equipment	\$ 22,000
Marina	D Dock Finger Piers - 90 ft (1)	2035	4 - Future	Replace Worn Out Equipment	\$ 10,625
Marina	A Dock breakwater	2060	4 - Future	Scheduled Replacement	\$ 1,500,000
Marina	J Dock Breakwall	2060	4 - Future	Scheduled Replacement	\$ 1,200,000
Budget Funding Totals					<u>\$2,933,825</u>

RANKING CRITERIA FOR FUTURE PROJECTS - when resources are available:

- 1 - Immediate: May be moved to the 5-Year plan within a year.
- 2 - Near Term: May be moved to the 5-Year plan in 2-3 years.
- 3 - Long Term: May be moved to the 5-Year plan in 4-5 years.
- 4 - Future: Anticipated but not yet scheduled.

PURPOSE

Scheduled Replacement
Current Equipment Obsolete
Replace Worn Out Equipment
New Program/Service
Expanded Service
Increase Safety
Improve Policies/Procedures
Reduce Personnel Time

PROPOSAL

CROSS-CONNECTION CONTROL SERVICES

Village of Williams Bay

250 Williams St.
Williams Bay, WI 53191

April 4, 2023

KEEPING DRINKING WATER SAFE FOR INDUSTRIES AND MUNICIPALITIES

For over 30 years, HydroCorp™ has been dedicated to safe drinking water for companies and communities across North America. Fortune 500 firms, metropolitan centers, utilities, small towns and businesses – all rely on HydroCorp to protect their water systems, averting backflow contamination and the acute health risks and financial liabilities it incurs.



Cross-Connection Control /

Backflow Prevention

Water Meter Change Out & Installation
Services

Legionella Prevention & Control

Water System Surveys / Flow Diagrams

Pipe System Mapping & Labeling

Regulatory Compliance Assistance /
Documentation



CORPORATE OFFICE
5700 CROOKS RD SUITE 100
TROY MI 48098
800.315.4305 TOLL FREE
262.264.6402 PHONE

PROJECT CONSULTANT: Craig Wolf
612-850-8939 CELL
cwolf@hydrocorpinc.com EMAIL



Table of Contents

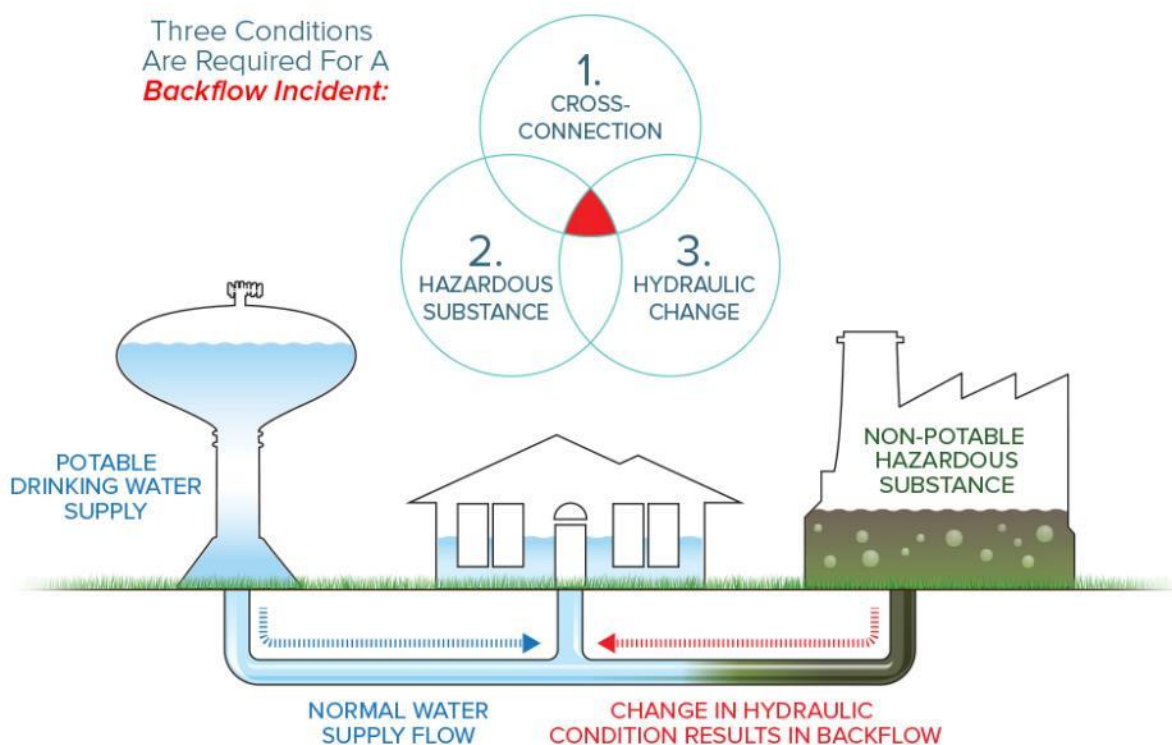
1. INTRODUCTION	2
1.1. Definitions	2
1.2. Common Cross-Connection Hazards.....	2
2. PROJECT WORK PLAN	3
2.1. Purpose of a Cross-Connection Control Program	3
2.2. Meeting the Cross-Connection Control Program Objectives	3
2.3. Stakeholders.....	3
2.4. Cross-Connection Control Plan Components.....	5
3. CROSS CONNECTION INSPECTION PROCESS	6
3.1. Inspections/Surveys	6
3.2. Definitions	6
3.3. CCC Program Process	7
3.4. Postal Notification Process - Inspections.....	8
4. WATER CUSTOMER CARE AND ADMINISTRATION PROCESS	9
4.1. Program Data	9
4.2. Database Software	9
4.3. Information Technology (I/T)	9
4.4. Program Data Backup and Storage	9
4.5. Public Awareness Education	10
5. EXECUTIVE SUMMARY, PROJECT FEES/COST	11
6. BACKGROUND	13
6.1. The HydroCorp Promise	13
6.2. Company Overview	13
6.3. Office Address & Contact Information.....	14
7. PROJECT REFERENCES	14
8. PROJECT TEAM QUALIFICATIONS	15



1. INTRODUCTION

1.1. Definitions

- Backflow – the undesirable reversal of flow of liquid, gas or other substance in a piping system.
- Backflow Preventer – an assembly, device, or method that prevents backflow.
- Cross-Connection – an actual connection or a potential connection between any part of a potable water system and any other environment that would allow substances to enter the potable water system.
- Cross-Connection Control – a program to eliminate cross-connections or to prevent them from causing a public health threat.
- Cross-Connection Control Survey – the review of the plumbing system to determine the existence of potential or actual cross-connections and to assess the degree of hazard of protected and unprotected cross-connections.



1.2. Common Cross-Connection Hazards

- Garden Hose connections with missing backflow preventers.
- Water Softener discharge lines directly connected to drain piping.
- Boilers with missing or inappropriate backflow preventers.
- Improperly installed or Backflow Prevention Assemblies missing test documentation.

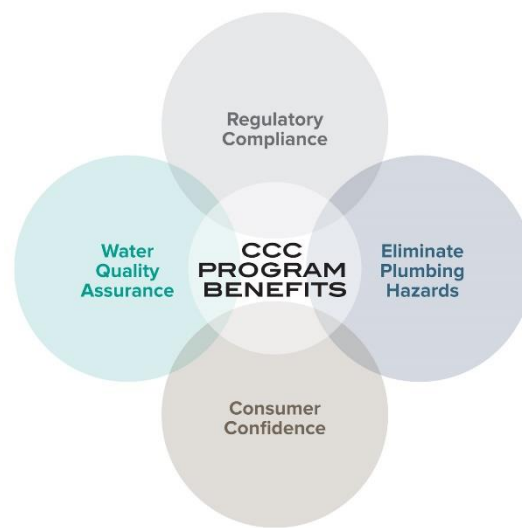


- Toilets with faulty or unapproved anti-siphon fill valves.
- Lawn Irrigation systems with missing or inappropriate backflow preventers.
- Restaurant equipment connected to water supply with missing backflow preventers.
- Dental office equipment with missing backflow preventers.
- Fire Sprinkler systems with missing or inappropriate backflow preventers.
- Chemical mixing systems in janitorial closets with missing backflow preventers.

2. PROJECT WORK PLAN

2.1. Purpose of a Cross-Connection Control Program

- Protect the water supply from backflow & public health and safety.
- Comply with state and local regulations (WI-DNR 810.15).
- Minimize risk and liability.
- Eliminate hazardous cross-connections to the drinking water supply.

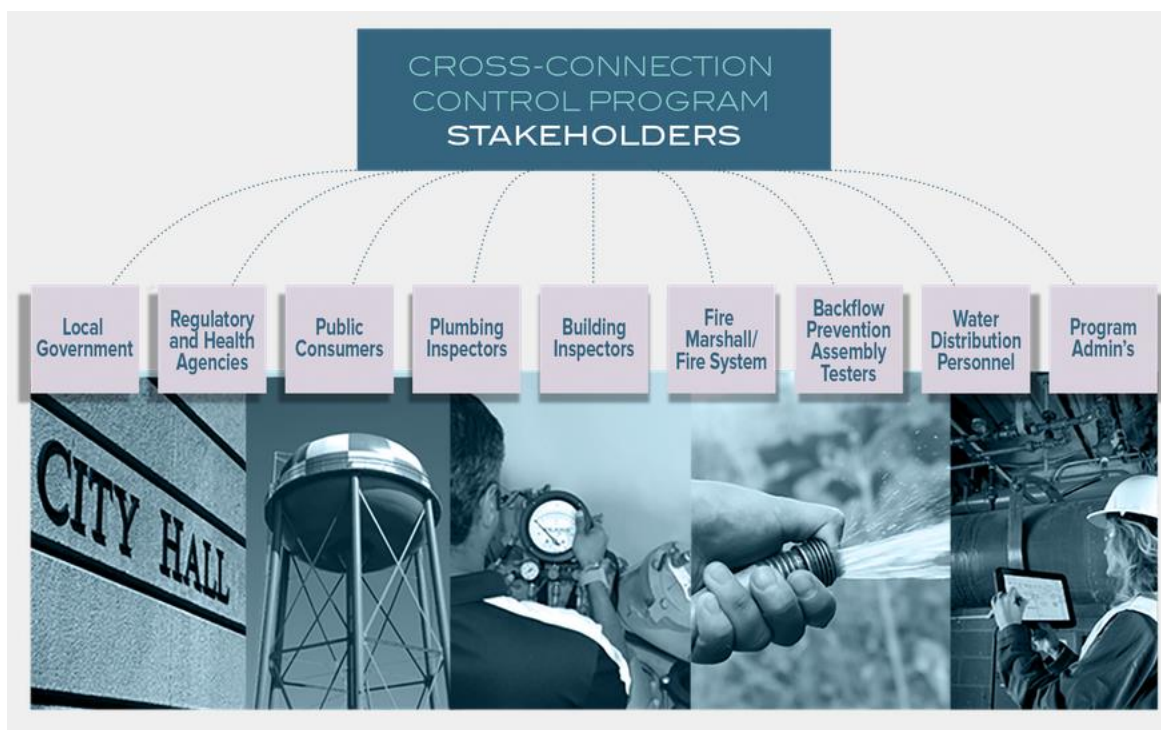


2.2. Meeting the Cross-Connection Control Program Objectives

- Providing cross-connection consultation to the **Village of Williams Bay**.
- Developing a written comprehensive Cross-Connection Control Plan.
- Routinely inspecting water customers for cross-connections or potential cross-connections.
- Maintaining cross-connection control records.
- Notifying water customers of violations and corrective action instructions.
- Providing water customer non-compliance status to the water utility.
- Providing public education.

2.3. Stakeholders

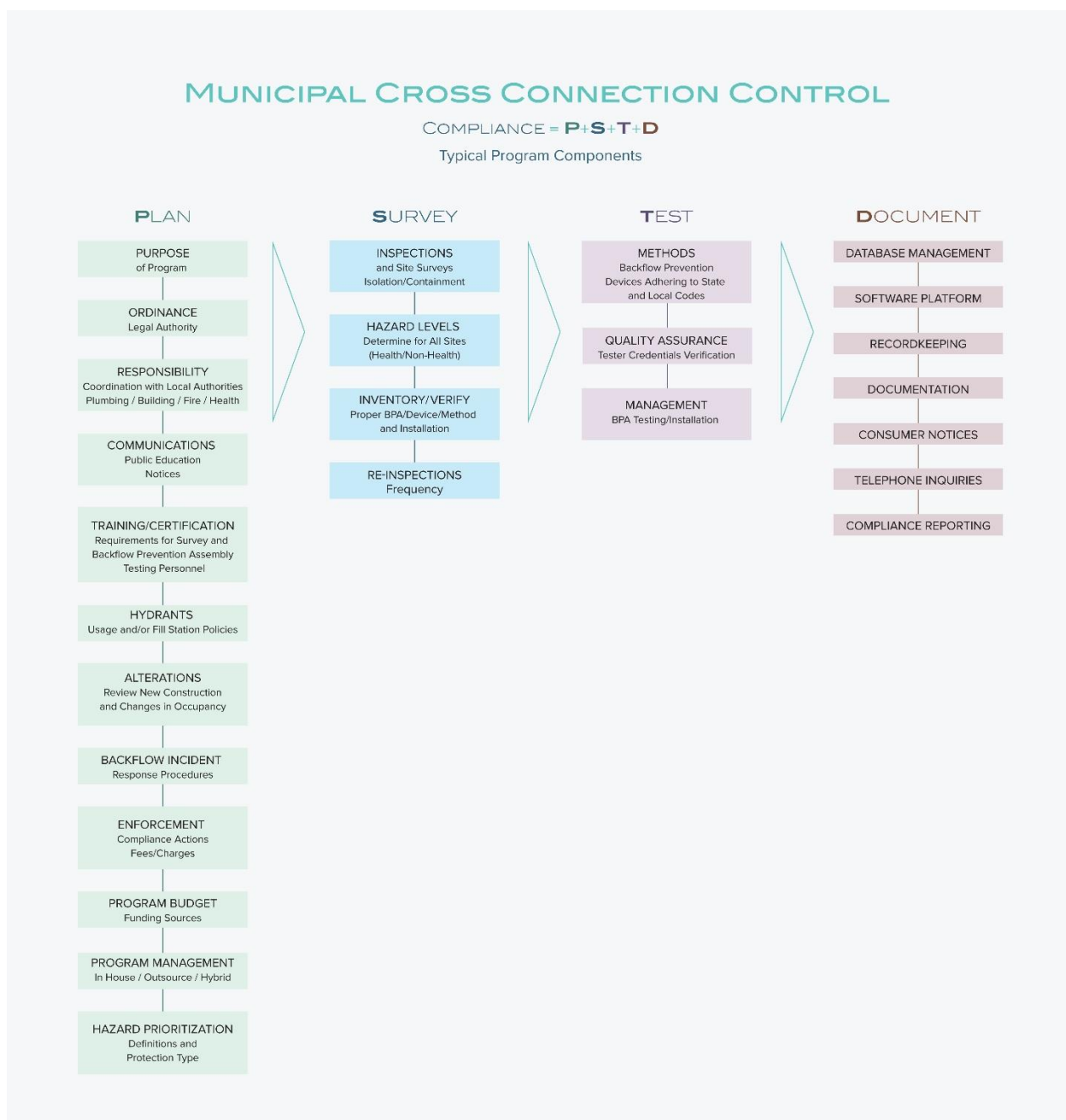
HydroCorp recognizes that many different stakeholders will be affected by a Cross-Connection Control Program. The following chart illustrates the various agencies, internal staff and external people that have an impact on overall program success and compliance.



HydroCorp strives to maintain a good working relationship and clearly communicate the goals of a Cross-Connection Control Program with all of the above stakeholders. We understand that our staff interaction in the community and with regulatory agencies is an extension of your positive community image. HydroCorp has maintained an excellent working relationship with local Mayors, City Managers, plumbing and building officials, health inspectors and others in order to provide them with a simple and clear understanding of the impact of a Cross-Connection Control program, regulations and the need to protect the drinking water supply from contamination.



2.4. Cross-Connection Control Plan Components





3. CROSS CONNECTION INSPECTION PROCESS

3.1. Inspections/Surveys

The water connections and plumbing systems of all water customers or accounts shall be initially inspected for the presence of cross connections. As a result of the initial inspection, a detailed record of each account shall be established.

Inspections shall consist of entering a facility from the point where water service enters the facility (usually the meter) and tracing the piping to each end point of use. Using standardized inspection forms, the inspector shall identify and note the location and nature of any direct and potential cross connections, location and details of backflow prevention devices & assemblies, and other pertinent program information. Inspectors having proper identification shall be permitted to enter the building/premises at reasonable times for the purpose of cross connection inspections. If the inspector is refused proper access or if customer plumbing is untraceable, the Village will assume a cross connection is present and take the necessary action to ensure the public water supply is protected.

The highest priority for inspections shall be placed on facilities that pose a high degree of hazard, that have a high probability that backflow will occur, or are known/suspected to have cross connections.

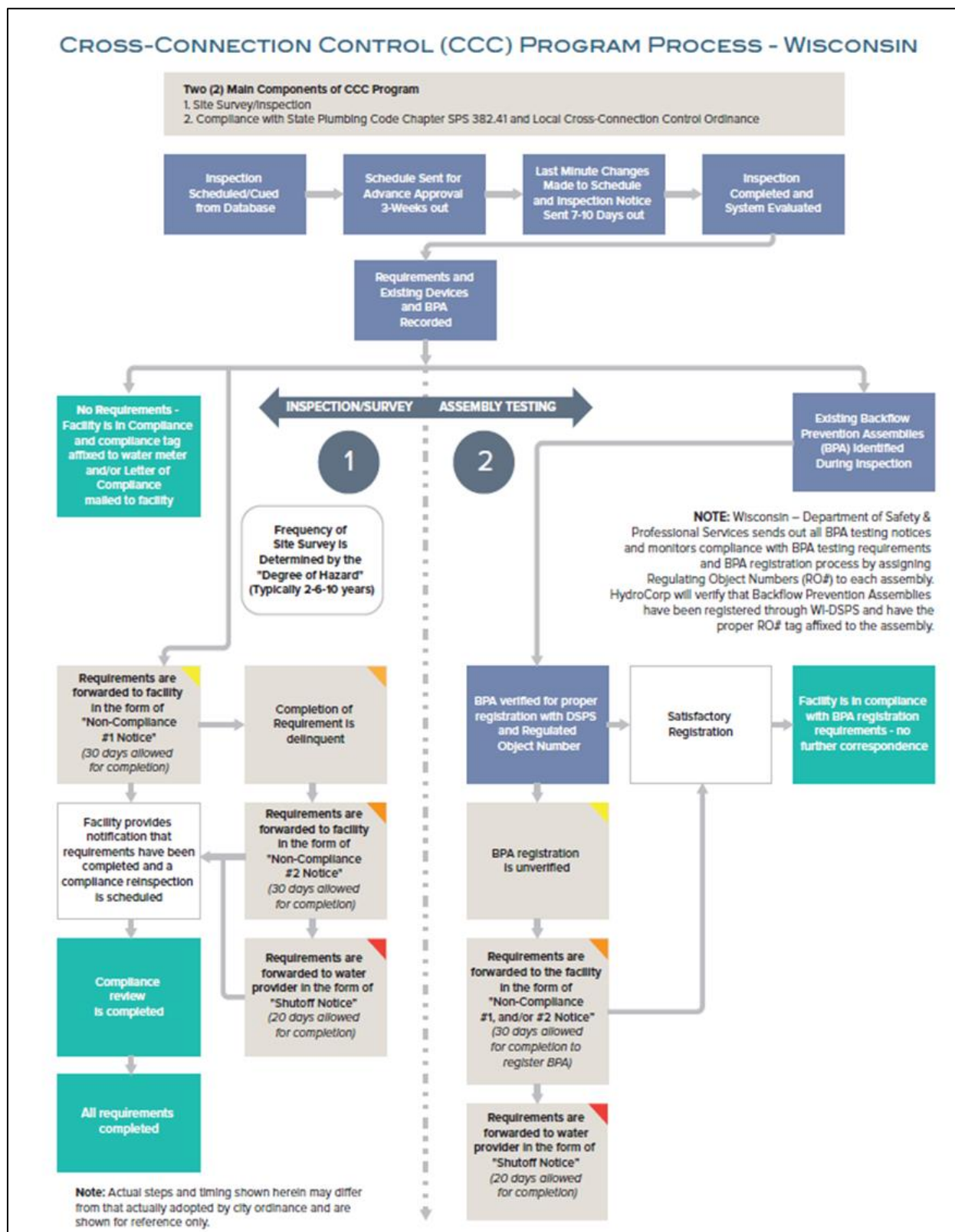
Once initial inspections are complete, a re-inspection frequency shall be determined for each account based on the degree of hazard/risk and potential for backflow in accordance with the requirements of the Village of Williams Bay Cross-Connection Control Plan. Accounts with an alternative frequency will require DNR Approval in writing. If requested, HydroCorp will develop an alternative frequency inspection schedule on behalf of the water utility and submit to DNR for final approval.

3.2. Definitions

- Initial Inspection – the first time a HydroCorp representative inspects a facility for cross connections. Degree of Hazard is assigned and/or verified during this facility visit. The Degree of Hazard will dictate future re-inspection frequency/schedule of facility, (facility will be either compliant or non-compliant after this inspection).
- Compliance Inspection – subsequent visit by a HydroCorp representative to a facility that was non-compliant during the Initial Inspection to verify that corrective action was completed and meets the program requirements.
- Re-Inspection – Revisit by a HydroCorp representative to a facility that was previously inspected. The re-inspection frequency/schedule is based on the degree of hazard assigned to the facility during the initial inspection (Re-Inspection cycle/frequency to be determined when Plan is developed).

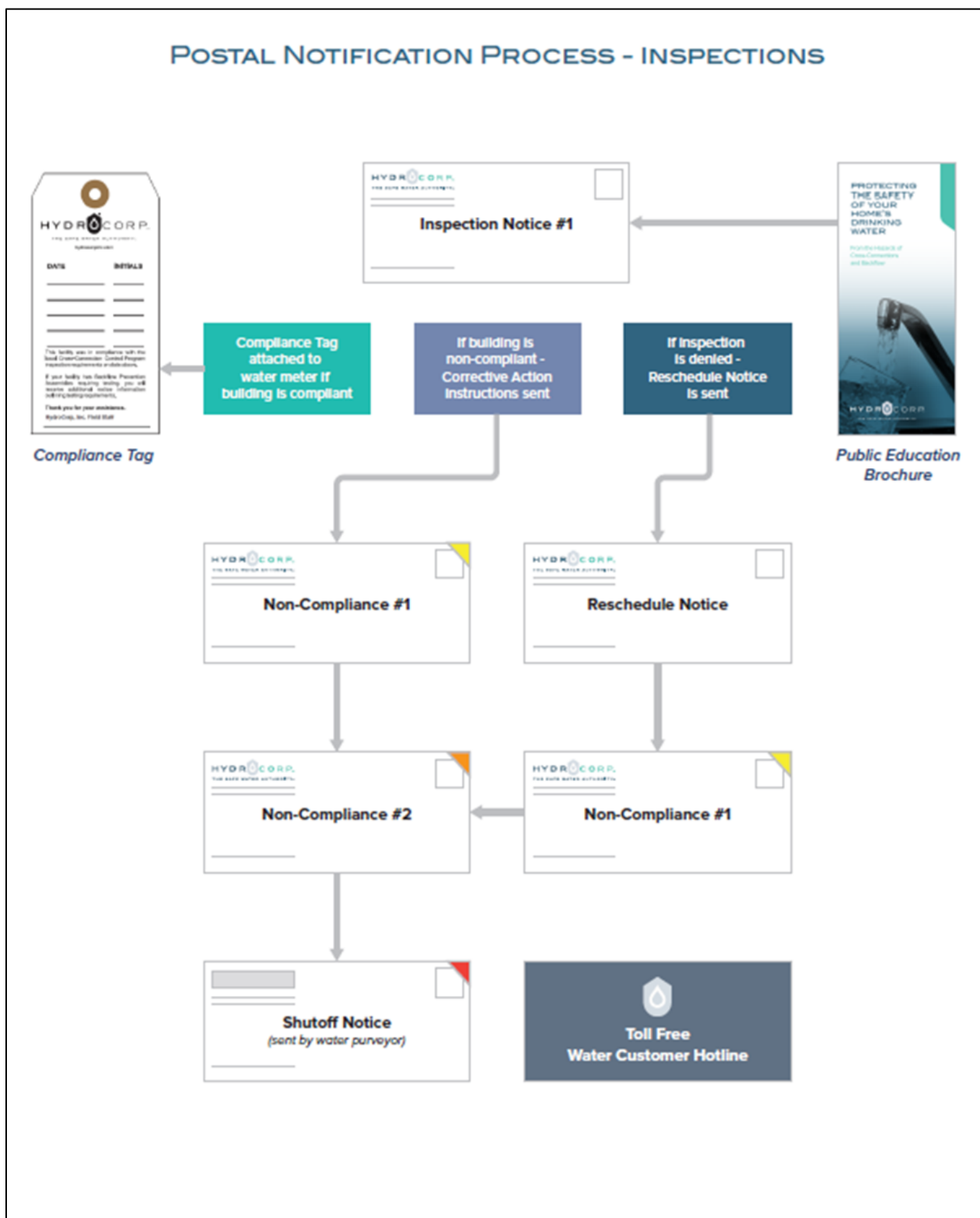


3.3. CCC Program Process





3.4. Postal Notification Process - Inspections





4. WATER CUSTOMER CARE AND ADMINISTRATION PROCESS

4.1. Program Data

The most critical element of a Cross-Connection Control Program is data integrity. Without accurate data, the Cross-Connection Control program will experience customer service, administrative, and reporting issues and also result in field survey inefficiencies.

4.2. Database Software

HydroCorp utilizes a proprietary software program – HydroSoft™ to manage Cross-Connection Control Program data. All program data captured shall remain the property of the Village of Williams Bay. All of our Client Data is secured on our Application Server, which is behind both a Hardware and a Software Firewall.

Standard reports include the following:

- Inspections scheduled, completed, overdue and compliance status
- Custom queries, data exports and reports as needed
- DNR Annual Report

4.3. Information Technology (I/T)

HydroCorp has a dedicated team member responsible for Information Technology (I/T) infrastructure for internal (staff) needs as well as external (client) communication and reporting needs. We also have a dedicated person responsible for new client start up and database implementation in order to insure we have the most accurate information possible at any given point in time.

We have continually invested in both hardware infrastructure (Network Servers, Client Workstations, Firewalls and Tablet P.C.'s for Field Inspectors) and software in order to leverage technology in the workplace and to improve customer service and assist in lowering our costs to our clients. HydroCorp has a contracted service agreement with a local I/T Company that performs monthly routine system maintenance and monitors our infrastructure/servers for optimum performance and reliability.

4.4. Program Data Backup and Storage

All of our Client Data is secured on our Application Server, which is behind both a Hardware and a Software Firewall. The Application Server is backed up twice a day. 5 copies of the backup are then created and stored at 3 separate locations. 3 of the 5 backup copies are stored locally. One is on the application server itself, one is on our File server, and one is backed up to a Network Attached Storage (NAS) device. Having 3 local backup copies stored on the different machines means that in the unlikely event of a hardware malfunction, we can recover the data very quickly. Additionally, we backup the data to our backup server located in our Corporate Office, and we employ a secure on-line backup service that stores 2 copies of our backup at two independent locations.



4.5. Public Awareness Education

In the initial implementation phase of the Cross-Connection Control Program, Public Education on the topic should remain in the community spotlight. HydroCorp will provide a specialized speaker to participate/present at a town hall/public meeting engagement if requested. Press release information will be offered in digital format to the Village of Williams Bay for local distribution to local media resources & website if requested. Further, public education brochures will be available in electronic format for download and can be posted on the Village of Williams Bay web site.



Further Public Education resources including brochures and video files can be found at <http://www.hydrocorpinc.com/resources/links/>



5. EXECUTIVE SUMMARY, PROJECT FEES/COST

Based on your current program, HydroCorp™ will provide the following services to the **Village of Williams Bay**. This project is a continued effort for an ongoing Cross-Connection Control Program and will provide the **Village of Williams Bay** with the necessary data and information to maintain compliance with the Wisconsin Department of Natural Resources (DNR) Water Bureau Cross Connection Control Regulations. Once this project has been approved and accepted by the **Village of Williams Bay** and HydroCorp, you may expect completion of the following elements within a two (2) year period. The components of the project include:

- A. Perform initial inspections of (60) Non-Residential water services and up to (76) inspections within the Village served by the public water supply for cross-connections. Compliance follow up visits shall be completed by HydroCorp and are included in the total inspections.
- B. Inspections will be conducted in accordance with the DNR Water Bureau Cross Connection Control regulations. Inspectors will survey exposed piping and utilize Isolation/Point of Use inventory method of surveying as supported by the State of Wisconsin Plumbing Code – SPS 382.41.
- C. HydroCorp will document existing backflow prevention devices and assemblies and verify proper installation and/or suggest corrective actions if devices and/or assemblies need to be installed to prevent cross-connections. Documentation to include make, model, size, manufacturer, serial number, location and regulated object number if applicable. In lieu of surveying residential kitchens and bathrooms, an educational brochure will be provided as allowed by DNR regulation NR 810.15.
- D. Notify each building owner prior to each inspection via postal letter with opportunity to schedule a specific time of inspection via the Hydro Designs Inc. Provide ongoing support for water customer scheduling and questions via the Hydro Designs Inc. WI office toll free 800# phone line, fax, or email.
- E. Provide Water Utility and building owner with a detailed corrective action report for each non-compliant facility, in most cases, water utility personnel can perform effective follow up compliance inspections.
- F. Perform administrative functions including: answering water user telephone calls, scheduling of inspections, mailing of all notices, verification of corrective action(s) requirements, and general customer service and program education inquiries by an individual trained in Cross-Connection Control Program Management.
- G. Generate and document the required program data and compliance status using proprietary Software Data Management Program. Submit comprehensive management reports on a quarterly basis and prepare the State of Wisconsin, DNR Water Bureau Annual Cross Connection Control Program Activity Report.
- H. Conduct an annual review meeting to discuss overall program status and recommendations.
- I. Assist the Village with a community wide public relations program including general awareness brochures and web site cross connection control program overview content and resources.
- J. Provide ongoing support via phone, fax, internet, text or email.



PRICING/PROPOSED FEES

HydroCorp to complete inspections, appointments, customer care service and program administration.
Compliance/follow up inspections and administration related to compliance/follow up inspections included.

PRICING:

_____ **Initial Inspections of 60 non-residential services connections and an overall total of up to 76 inspections including follow up compliance inspections.**

_____ **\$11,016.00 dollars.**

HydroCorp will invoice monthly in equal installments upon receipt of signed contract/agreement

Submitted by: HYDROCORP- CORPORATE OFFICE- 5700 CROOKS RD SUITE 100 TROY MI 48098

Craig Wolf | 612-850-8939 | cwolf@hydrocorpinc.com

Accepted by:

X _____

Village/Utility Representative (Signature)

Date

Printed Name / Title



6. BACKGROUND

6.1. The HydroCorp Promise

HydroCorp is the Safe Water Authority.™ It is our duty to provide the most precise and comprehensive technical services in the industry. It also means delivering those services with expert knowledge, professionalism, and sensitivity to budgets and schedules – the highest standard of water safety oversight, combined with the highest value.

The Result – Your water system is compliant. Your risk and exposure are reduced. Your water – and your people – are protected.

6.2. Company Overview

- Founded in 1983 and incorporated in 1988.
- The firm has grown from two employees to a staff of over 40 full time associates in multiple states. Average tenure with the company is 7 years and employee turnover is less than 10%.
- HydroCorp Conducts over 25,000 on site, Cross-Connection Control Inspections **annually**.
- HydroCorp provided Cross-Connection Control Program Management Services to over 240 communities in several states including: Michigan, Wisconsin, Delaware, Maryland, Virginia, Florida and Minnesota. We still have our first customer!
- Our highly trained staff works in an efficient manner in order to achieve maximum productivity and keep program costs affordable. We have a detailed **system** and **process** that each of our field inspectors follow in order to meet productivity and quality assurance goals.
- Our municipal inspection team is committed to providing outstanding customer service to the water users in each of the communities we serve. We teach and train customer service skills in addition to the technical skills since our team members act as representatives of the community that we service.
- Our municipal inspection team has attended training classes and received certification from the following recognized Cross Connection Control Programs: UF TREEO, UW-Madison, USC – Foundation for Cross Connection Control and Hydraulic Research, American Backflow Prevention Association (ABPA), and American Society for Sanitary Engineering (ASSE). We invest heavily in internal and external training with our team members to ensure that each Field Service and Administrative team member has the skills and abilities to meet the needs of our clients.
- Our administrative staff can answer most technical calls related to the cross-connection control program and have attended basic cross-connection control training classes.
- HydroCorp staff and company are active members in many water industry associations including:
 - American Water Works Association (AWWA) | AWWA – Wisconsin Chapter
 - National Rural Water Association (NRWA) | Wisconsin Rural Water Association
 - American Public Works Association (APWA)
- HydroCorp is not a Plumbing Company and does not utilize existing staff to perform backflow prevention assembly testing, repair or plumbing related services.



6.3. Office Address & Contact Information

Regional Office:	HYDROCORP – MIDWEST OFFICE 2665 S MOORLAND RD SUITE 209 NEW BERLIN WI 53151
Contact:	Craig Wolf
Telephone:	612-850-8939
Email:	cwolf@hydrocorpinc.com
Corporate Office: (Remit to Address)	HYDROCORP – CORPORATE OFFICE 5700 CROOKS ROAD SUITE 100 TROY MI 48098
Telephone:	800.690.6651 or 248.250.5000
Legal Status:	S-Corporation, 1988 E.I.D. 38-2810008
	



WI Office (Above) Corporate Office (Below)



7. PROJECT REFERENCES

- City of Marshfield, 1210 S Oak St, Marshfield, WI 54449 | John Richmond, Water Utility Manager, john.richmond@MarshfieldUtilities.org | 715-898-2170
- City of Chetek, 1125 Railroad Ave., Chetek, WI 54728 | Dan Knapp, Director-Public Works, chetekcs@chibardun.net | 715-924-4236
- Sturgeon Bay Utilities, 230 E. Vine St, Sturgeon Bay, WI 53235-007 | Cliff White, Superintendent, cwhite@wppienergy.org | 920-746-2820



8. PROJECT TEAM QUALIFICATIONS

Corporate Officers



Larry J. La Bute, Founder & CEO - Chairman of the Board of Directors. Mr. La Bute founded the company in 1983 to improve the safety of drinking water systems. He graduated from Oakland University with a B.S. in Management and received his Master's degree from S.S. Cyril & Methodius Seminary. Prior to founding HydroCorp, Mr. LaBute successfully founded and ran a water treatment equipment manufacturing company for 12 years.



Mark L. Martin, CPA & Chief Financial Officer. Mr. Martin joined HydroCorp in early 2007 and is a seasoned business executive experienced in working with growing small and mid-size companies across a broad range of industries. Mark received a B.S. in Accounting from Michigan State University in 1980 and is also a 10-year board member of Haiti Outreach Mission.



Glenn Adamus, COO. A member of the HydroCorp team for the past fourteen years, Glenn has managed various water quality analysis projects related to process water and potable water systems on HydroCorp's behalf, including Stage 2 DBPR, Lead and Copper Rule, water distribution system/quality characterization studies, water main/system disinfections, legionella risk assessment and monitoring, and industry compliance monitoring. He has also performed and managed numerous cross connection control surveys/consulting projects for large industry and public water systems throughout the United States.



Paul Patterson, Senior Vice President. Mr. Patterson joined HydroCorp, Inc. in 2004, and is responsible for operational oversight of over 200 Cross-Connection Control Programs throughout Michigan, Delaware, Maryland, Florida, Wisconsin and Virginia. Before joining HydroCorp, Mr. Patterson was a member of the U.S. Air Force, where he assisted in the implementation of a stateside installation Cross-Connection Control Program. Paul is an ASSE Certified Instructor for Backflow Assembly Testing Certification and regularly presents at regional water industry association conferences.



Staff Bios Continued



Dave Cardinal, Vice President, Municipal Division. Dave has over twenty years' experience as a water professional and has a successful record of accomplishments in the cross-connection control industry. Experienced in program development, project management, developing and conducting employee education and training programs, developing and instructing State certified education and training classes, quality assurance, customer service, and client satisfaction. He is responsible for establishing business practices, field operation procedures, and administrative functions related to cross connection control program management. Dave is an ASSE Certified Instructor for multiple ASSE Certifications related to Cross-Connection Control and Backflow Prevention. Dave also has been a speaker at numerous Water Industry Conferences.



Craig Wolf, New Cross-Connection Control Program development in the Midwest Region. Since 2009 at HydroCorp, he was responsible for identification of hazards and deficiencies and determining proper recommendations for over 130 municipal client cross-connection control programs in Wisconsin. He also generated inspection reports and protection recommendations for over 3,000 individual facility surveys of cross-connections. Certified by ASSE for Cross-Connection Control Surveying, Craig applies years of field experience to offering solutions for public water systems that are cost effective. In the past 4 years, Craig has been focused on client retention efforts, and developing new Cross Connection Control Programs for Municipal Water Systems around the region.



Ryan Hensley, Administrative Account Manager – Municipal Division. As an Administrative Account Manager Ryan Hensley is responsible for providing administrative support to field surveyors, regional managers and division directors with all components associated with managing a comprehensive cross connection control program, in addition to providing highest level of customer service to our municipal clients. Ryan has been a member of the HydroCorp team for over 10 years and is an ASSE 5150 certified Backflow Prevention Program Administrator.

He is an advanced user of the HydroSoft data management program & responsible for providing day to day tech support to the entire staff and external clients. Ryan also assists in the planning, testing & training of HydroSoft for clients and end users.

Field Inspectors/Surveyors/Technicians

HydroCorp invests continuously in educational training and development of its team members. All of the HydroCorp Field Inspectors assigned to this project are certified in Cross-Connection Control Surveying and Backflow Prevention Program Management through one the following programs:

PROFESSIONAL SERVICE AGREEMENT

This agreement, made and entered into this May 1st, 2023 by and between the Village of Williams Bay organized and existing under the laws of the State of Wisconsin, referred to as “Utility”, and HydroCorp™ a Michigan Corporation, referred to as “HydroCorp”.

WHEREAS, the Utility supplies potable water throughout its corporate boundary to property owners; and desires to enter into a professional services contract for cross connection control program inspection, reporting and management services.

WHEREAS, HydroCorp is experienced in and capable of supplying professional inspection of potable water distribution systems and cross connection control program management to the Utility and the Utility desires to engage HydroCorp to act as its independent contractor in its cross connection control program.

WHEREAS, the Utility has the authority under the laws of the State of Wisconsin and its local governing body to enter into this professional services contract.

NOW THEREFORE, in consideration of the mutual agreements herein contained, and subject to the terms and conditions herein stated, the parties agree as follows:

ARTICLE I. Purpose

During the term of this Agreement, the Utility agrees to engage HydroCorp as an independent contractor to inspect and document its findings on its potable water distribution system in public, commercial and industrial facilities within the community. Each party to this Agreement agrees that it will cooperate in good faith with the other, its agents, and subcontractors to facilitate the performance of the mutual obligations set forth in this Agreement. Both Parties to this Agreement recognize and acknowledge that the information presented to them is complete and accurate, yet due to the inaccessible nature of water piping or due to access constraints within water users’ facilities, complete and accurate data is not always available.

ARTICLE II. Scope of Services

The scope of services to be provided by HydroCorp under this Agreement will include the inspections/surveys, program administration, answering telephone call inquiries, scheduling of inspections, program compliance review, public education materials, preparation of quarterly management reports, and annual cross connection reports with respect to the facilities to the extent specifically set forth in this Article II (hereinafter the “Scope of Services”). Should other reports/services be included within the Scope of Services, the same shall be appended to this Agreement as Exhibit 1.

2.1 PROGRAM REVIEW/PROGRAM START UP MEETING. HydroCorp will conduct a Program Startup Meeting for the Cross-Connection Control/Backflow Prevention Program. Items for discussion/review will include the following:

- Review state & local regulations
- Review and/or provide assistance in establishing local Cross-Connection Control Ordinance
- Review/establish wording and timeliness for program notifications including:
 - Inspection Notice
 - Compliance Notice
 - Non-Compliance Notices 1-2, Penalty Notices
- Special Program Notices
- Electronic use of notices/program information
- Obtain updated facility listing, address information and existing program data from Utility
- Prioritize Inspections (City buildings, schools, high hazard facilities, special circumstances.)
- Review/establish procedure for vacant facilities



- Establish facility inspection schedule
- Review/establish procedures and protocol for addressing specific hazards
- Review/establish high hazard, complex facilities and large industrial facility inspection/containment procedures including supplemental information/notification that may be requested from these types of facilities in order to achieve program compliance.
- Review/establish program reporting procedures including electronic reporting tools
- Review/establish educational and public awareness brochures

2.2 INSPECTIONS. HydroCorp will perform initial inspections, compliance inspections, and re-inspections at individual industrial, commercial, institutional facilities and miscellaneous water users within the utility served by the public water supply for cross-connections. Inspections will be conducted in accordance with Wisconsin Department of Natural Resources (DNR) Cross Connection Control Rules.

- *Initial Inspection* – the first time a HydroCorp representative inspects a facility for cross connections. Degree of Hazard will be assigned and/or verified during this facility visit. The Degree of Hazard will dictate future re-inspection frequency/schedule of facility, (facility will be either compliant or non-compliant after this inspection).
- *Compliance Inspection* – subsequent visit by a HydroCorp representative to a facility that was non-compliant during the *Initial Inspection* to verify that corrective action was completed and meets the program requirements.
- *Re-Inspection* – Revisit by a HydroCorp representative to a facility that was previously inspected. The re-inspection frequency/schedule is based on the degree of hazard assigned to the facility during the initial inspection (two, six or ten year re-inspection cycle).

2.3 INSPECTION SCHEDULE. HydroCorp shall determine and coordinate the inspection schedule. Inspection personnel will check in/out on a daily basis with the Utility's designated contact person. The initial check in will include a list of inspections scheduled. An exit interview will include a list of inspections completed.

2.4 PROGRAM DATA. HydroCorp will generate and document the required program data for the Facility Types listed in the Scope of Services using the HydroCorp Software Data Management Program. Program Data shall remain property of the Utility; however, the HydroCorp Software Data Management program shall remain the property of HydroCorp and can be purchased for an additional fee. Data services will include:

- Prioritize and schedule inspections
- Notify users of inspections, backflow device installation and testing requirements if applicable
- Monitor inspection compliance using the HydroCorp online software management program. (Note: WI Department of Safety & Professional Services (DSPS) manages backflow prevention assembly testing notification and compliance.)
- Maintain program to comply with all DNR regulations

2.5 MANAGEMENT REPORTS. HydroCorp will submit comprehensive management reports in electronic, downloadable format on a quarterly & annual basis to the Utility. Reports to include the following information:

- Name, location and date of inspections
- Number of facilities inspected/surveyed
- Number of facilities compliant/non-compliant

2.6 REVIEW OF CROSS-CONNECTION CONTROL ORDINANCE. HydroCorp will review or assist in the development of a cross-connection control ordinance. Items for review include:

- Code adoption references, standard operational procedures, program notice documentation, reporting procedures and preference standards.
- Penalties for noncompliance.



- 2.7 **VACUUM BREAKERS.** **Utility** will provide up to six (6) ASSE approved hose bill vacuum breakers or anti-frost hose bibb vacuum breakers per facility as required, in order to place a facility into immediate compliance at the time of inspection if no other cross-connections are identified.
- 2.8 **PUBLIC RELATIONS PROGRAM.** HydroCorp will assist the Utility with a community-wide public relations program including general awareness brochures and website cross connection control program content.
- 2.9 **SUPPORT.** HydroCorp will provide ongoing support via phone, fax, text, website or email for the contract period.
- 2.10 **FACILITY TYPES.** The facility types included in the program are as follows:
- Industrial
 - Institutional
 - Commercial
 - Miscellaneous Water users
 - Multifamily
- Complex Facilities.** Large industrial and high hazard complexes or facilities may require inspection/survey services outside the scope of this Agreement. (HydroCorp typically allows a maximum of up to three (3) hours of inspection time per facility.) An independent cross connection control survey (at the business owner's expense) may be required at these larger/complex facilities and the results submitted to the Utility to help verify program compliance.
- 2.11 **INSPECTION TERMS.** HydroCorp will perform **(60) Initial inspection, and up to (76)** total inspections over a **two (2)** year contract period. The total inspections include all initial inspections, compliance and re-inspections. *Vacant facilities that have been provided to HydroCorp, scheduled no show or refusal of onsite inspection will count as an inspection/site visit for purposes of the contract.*
- 2.12 **COMPLIANCE WITH DEPARTMENT OF NATURAL RESOURCES ADMINISTRATIVE CODE.** HydroCorp will assist in compliance with DNR and Wisconsin Administrative Code cross connection control program requirements for all commercial, industrial, institutional, multifamily and public authority facilities.
- 2.13 **POLICY MANUAL.** HydroCorp will review and/or develop a comprehensive cross connection control policy manual/plan and submit to WI-DNR for approval on behalf of the Utility.
- 2.14 **INVENTORY.** HydroCorp shall inventory all accessible (ground level) backflow prevention assemblies and devices. Documentation will include: location, size, make, model and serial number if applicable.
- 2.15 **DATA MANAGEMENT.** HydroCorp shall provide data management and program notices for all inspection services throughout the contract period.
- 2.16 **ANNUAL YEAR END REVIEW.** HydroCorp will conduct an on-site annual year-end review meeting to discuss overall program status and specific program recommendations.
- 2.17 **CROSS CONNECTION CONTROL BROCHURES.** HydroCorp will provide approximately **76** cross-connection control educational brochures for the duration of the Agreement.
- 2.18 **INSURANCE.** HydroCorp will provide all required copies of general liability, workers compensation and errors and omissions insurance naming the Utility as an additional insured if required.



ARTICLE III. Responsibilities of the Utility

- 3.1 UTILITY'S REPRESENTATIVE.** On or before the date services are to commence under this Agreement, the Utility shall designate an authorized representative ("Authorized Representative") to administer this Agreement.
- 3.2 COMPLIANCE WITH LAWS.** The Utility, with the technical and professional assistance of HydroCorp, shall comply with all applicable local, state, and federal laws, codes, ordinances, and regulations as they pertain to the water inspection and testing, and shall pay for any capital improvements needed to bring the water treatment and delivery system into compliance with the aforementioned laws.
- 3.3 NOTICE OF LITIGATION.** In the event that the Utility or HydroCorp has or receives notice of or undertakes the prosecution of any actions, claims, suits, administrative proceedings, investigations or other proceedings in connection with this Agreement, the party receiving such notice or undertaking of such prosecution shall give the other party timely notice of such proceedings and will inform the other party in advance of all hearings regarding such proceedings
- 3.4 FACILITY LISTING.** The Utility must provide HydroCorp a complete list of facilities to be inspected, including facility name, type of service connection, address, contact person, and phone number, (if available). *Electronic file format such as Microsoft Excel, etc. is required. An additional one-time fee to manually enter facility listing will be charged at the rate of \$80.00 per hour. Incorrect facility addresses will be returned to the Utility contact and corrected address will be requested.*
- 3.5 LETTERHEAD/LOGO.** The Utility will provide HydroCorp with an electronic file copy of the utility logo or utility letterhead and all envelopes for the mailing of all official program correspondence only. (300 dpi in either .eps, or other high quality image format for printing.)

ARTICLE IV. Term, Compensation and Changes in Scope of Services

- 4.1 TERM AND TERMINATION TERM.** Services by HydroCorp under this Agreement shall commence on **May 1st, 2023** and end **two (2) years** from such date, unless this Agreement is renewed or terminated as provided herein. The terms of this Agreement shall be valid only upon the execution of this Agreement within ninety (90) days of its receipt. Failure to execute this Agreement within the ninety (90) day period shall deem the proposed terms void.
- 4.2 RENEWAL.** Upon the expiration of this two-year agreement the Utility will have the option to automatically renew for a one (1) year term. Any increases in pricing for the one-year renewal will be equal to the annual Consumer Price Index as measured in the local/regional area at the time of renewal.
- 4.3 TERMINATION.** The Utility or HydroCorp may terminate this Agreement at any time and on any date in the initial and renewal terms of this Agreement, with or without any cause, by giving written notice of such intent to terminate to the other party at least thirty (30) days prior to the effective date of termination. Notice of the intent to terminate shall be given in writing by personal service, by an authorized agent, or by certified mail, return receipt requested. The Utility shall pay the balance of any outstanding accounts for work performed by HydroCorp.
- 4.4 BASE COMPENSATION.** From the Beginning thirty (30) days after execution of this Agreement, the Utility shall pay HydroCorp as compensation ("Base Compensation") for labor, equipment, material, supplies, and utilities provided and the services performed pursuant to this Agreement, the sum of **\$459.00** per month, **\$5,508.00** annually for a **two (2)** year contract period totaling **\$11,016.00**.
- 4.5 PAYMENT OF INVOICES.** Upon presentation of invoices by HydroCorp, all payments including base and other compensation shall be due and payable on the first day of each month (due date) after the month for which services have been rendered. All such payments shall be made no later than thirty (30) days after the due date. Failure to pay shall be deemed a default under this Agreement. For any payment to HydroCorp which is not



made within thirty (30) calendar days after the due date, HydroCorp, shall receive interest at one and one-half (1½) percent per month on the unpaid balance.

- 4.6 CHANGES IN SCOPE OF SERVICES.** In the event that the Utility requests and HydroCorp consents to perform additional work or services involving the consulting, management, operation, maintenance, and repair of the Utility's water delivery system where such services or work exceeds or changes the Scope of Services contemplated under this Agreement, HydroCorp shall be provided additional compensation. Within thirty (30) calendar days from the date of notice of such additional work or services, the parties shall mutually agree upon an equitable sum for additional compensation. This amount shall be added to the monthly sum effective at the time of change in scope. Changes in the Scope of Service include, but are not limited to, requests for additional service by the Utility or additional costs incurred in meeting new or changed government regulations or reporting requirements.
- 4.7 CLIENT CONFIDENTIALITY.** Disclosure of all communications between HydroCorp and the Utility regarding business practices and other methods and forms of doing business is subject to the provisions of Wisconsin Public Records Law, Chapter 19, Wis. Stats. HydroCorp agrees to make available for inspection and copying all records (as defined in sec. 19.32 (2), Wis. Stats.) in its possession created, produced, collected or otherwise related to this Agreement to the same extent as if the records were maintained by the Utility. HydroCorp expressly acknowledges and agrees that its obligations concerning Public Records Law and compliance under this Agreement should not be limited by copyright, license, privacy and/or confidentiality except as authorized under the Public Records Law.
- 4.8 ACCESSIBILITY.** Backflow prevention device information will be completed in full only when the identifying information (i.e. data plate, brass tag, etc.) is accessible and visible from ground level or from a fixed platform/mezzanine.
- 4.9 CONFINED SPACES.** – HydroCorp personnel will not enter confined spaces.

ARTICLE V. Risk Management and General Provisions

- 5.1 INFORMATION.** Both Parties to this Agreement recognize and acknowledge that the information presented to them is complete to the best of their knowledge, yet due to the inaccessible nature of water piping or lack of access provided by property owner/water user, complete accurate data is not always available. Cross-connection control inspection and results are documented as of a specific date. The property owner and/or water user may make modifications to the potable water system after the inspection date that may impact compliance with the program.
- 5.2 LIMITATION OF LIABILITY.** HydroCorp's liability to the Utility for any loss, damage, claim, or expense of any kind or nature caused directly or indirectly by the performance or non-performance of obligations pursuant to this Agreement shall be limited to general money damages in an amount not to exceed or within the limits of the insurance coverage provided hereunder. HydroCorp shall in no event be liable for indirect or consequential damages, including but not limited to, loss of profits, loss of revenue, or loss of facilities, based upon contract, negligence, or any other cause of action.

- 5.3 HYDROCORP INSURANCE.** HydroCorp currently maintains the following insurance coverage's and limits:

	Occurrence	Aggregate
Comprehensive General Liability	\$1 Million	\$2 Million
Excess Umbrella Liability	\$5 Million	\$5 Million
Automobile Liability (Combined Single Limit)	\$1 Million	
Worker's Compensation/ Employer's Liability	\$1 Million	
Errors and Omissions	\$2 Million	\$2 Million

Within thirty (30) calendar days of the start of the project, HydroCorp shall furnish the Utility with satisfactory proof of such insurance, and each policy will require a 30-day notice of cancellation to be given



to the Utility while this Agreement is in effect. The Utility shall be named as an additional insured according to its interest under the general liability policy during the term of this Agreement.

- 5.4 UTILITY INSURANCE.** The Utility will maintain liability insurance on an all risk basis and including extended coverage for matters set forth in this Agreement.
- 5.5 RELATIONSHIP.** The relationship of HydroCorp to the Utility is that of independent contractor and not one of employment. None of the employees or agents of HydroCorp shall be considered employees of the Utility. For the purposes of all state, local, and federal laws and regulations, the Utility shall exercise primary management, and operational and financial decision-making authority.
- 5.6 ENTIRE AGREEMENT AMENDMENTS.** This Agreement contains the entire Agreement between the Utility and HydroCorp, and supersedes all prior or contemporaneous communications, representations, understandings, or agreements. This Agreement may be modified only by a written amendment signed by both parties.
- 5.7 HEADINGS, ATTACHMENTS, AND EXHIBITS.** The heading contained in this Agreement is for reference only and shall not in any way affect the meaning or interpretation of this Agreement. The Attachments and Exhibits to this Agreement shall be construed as integral parts of this Agreement.
- 5.8 WAIVER.** The failure on the part of either party to enforce its rights as to any provision of this Agreement shall not be construed as a waiver of its rights to enforce such provisions in the future.
- 5.9 ASSIGNMENT.** This Agreement shall not be assigned by either party without the prior written consent of the other unless such assignment shall be to the affiliate or successor of either party.
- 5.10 FORCE MAJEURE.** A party's performance under this Agreement shall be excused if, and to the extent that, the party is unable to perform because of actions due to causes beyond its reasonable control such as, but not limited to, Acts of God, the acts of civil or military authority, loss of potable water sources, water system contamination, floods, quarantine restrictions, riot, strikes, commercial impossibility, fires, explosions, bombing, and all such interruptions of business, casualties, events, or circumstances reasonably beyond the control of the party obligated to perform, whether such other causes are related or unrelated, similar or dissimilar, to any of the foregoing. In the event of any such force majeure, the party unable to perform shall promptly notify the other party of the existence of such force majeure and shall be required to resume performance of its obligations under this Agreement upon the termination of the aforementioned force majeure.
- 5.11 AUTHORITY TO CONTRACT.** Each party warrants and represents that it has authority to enter into this Agreement and to perform the obligations, including any payment obligations, under this Agreement.
- 5.12 GOVERNING LAW AND VENUE.** This Agreement shall be governed by and construed in accordance with the laws of the State of Wisconsin, regardless of the fact that any of the parties hereto may be or may become a resident of a different state or jurisdiction. Any suit or action arising shall be filed in a court of competent jurisdiction within the State of Wisconsin, venue by the presiding County. The parties hereby consent to the personal jurisdiction of said court within the State of Wisconsin.
- 5.13 COUNTERPARTS.** This Agreement may be executed in any number of counterparts, each of which shall be deemed to be an original and all of which together shall be deemed to be one and the same instrument.
- 5.14 NOTICES.** All notices, requests, demands, payments and other communications which are required or may be given under this Agreement shall be in writing and shall be deemed to have been duly given if delivered personally or sent by nationally recognized overnight carrier, or mailed by certified mail, postage prepaid, return receipt requested, as follows:



If to HydroCorp:

HydroCorp
c/o Craig Wolf
5700 Crooks Road, Ste. 100
Troy, MI 48337
(612) 850-8939

If to Utility:

Village of Williams Bay
250 Williams St.
Williams Bay, WI 53191

- 5.15 **SEVERABILITY.** Should any part of this Agreement for any reason, be declared invalid or void, such declaration will not affect the remaining portion, which will remain in full force and effect as if the Agreement has been executed with the invalid portion eliminated.

SIGNATURES

IN WITNESS WHEREOF, the parties have duly executed this Agreement effective as of the date first above written.

VILLAGE OF WILLIAMS BAY

By:
Title:

HydroCorp



By: Craig Wolf



Appendix

Specific Qualifications & Experience

HydroCorp™ is a professional service organization that specializes in Cross Connection Control Programs. Cross Connection Control Program Management & Training is the main core and focus of our business. We are committed to providing water utilities and local communities with a cost effective and professionally managed cross connection control program in order to assist in protecting the public water supply.

- HydroCorp conducts over 30,000 Cross Connection Control Inspections **annually**.
- HydroCorp tracks and manages over 35,000+ backflow prevention assemblies for our Municipal client base.
- Our highly trained staff works in an efficient manner in order to achieve maximum productivity and keep program costs affordable. We have a detailed **system** and **process** that each of our field inspectors follow in order to meet productivity and quality assurance goals.
- Our municipal inspection team is committed to providing outstanding customer service to the water users in each of the communities we serve. We teach and train customer service skills in addition to the technical skills since our team members act as representatives of the community that we service.
- Our municipal inspection team has attended training classes and received certification from the following recognized Cross Connection Control Programs: UF TREEO, UW-Madison, and USC – Foundation for Cross Connection Control and Hydraulic Research, American Backflow Prevention Association (ABPA), American Society for Sanitary Engineering (ASSE). HydroCorp recognizes the importance of Professional Development and Learning. We invest heavily in internal and external training with our team members to ensure that each Field Service and Administrative team member has the skills and abilities to meet the needs of our clients.
- We have a trained administrative staff to handle client needs, water user questions and answer telephone calls in a professional, timely and courtesy manner. Our administrative staff can answer most technical calls related to the cross connection control program and have attended basic cross connection control training classes.
- HydroCorp currently serves over 200 communities in Michigan, Wisconsin, Maryland, Delaware, Virginia & Florida. We still have our first customer!
- HydroCorp and its' staff are active members in many water industry associations including: National Rural Water Association, State Rural Water Associations, National AWWA, State AWWA Groups, HydroCorp is committed to assisting these organizations by providing training classes, seminars and assistance in the area of Cross Connection Control.
- Several Fortune 500 companies have relied on HydroCorp to provide Cross Connection Control Surveys, Program Management & Reporting to assist in meeting state/local regulations as well as internal company guidelines.



As of date:	4/11/2023								
TOTAL FUNDS RECEIVED									\$12,135,000.00
Levy Supported Projects									\$3,735,000.00
	Estimated amount used for borrowing	Committee approved date of project	VB approved date of project	Bid opening date (if applicable)	Bid/proposal amount	Signed contract/proposal on file (Y/N)	Project start date	Project end date	Total Project cost
Streets Department Projects									
Lakewood Trails Subdivision Paving	\$300,000.00								\$0.00
Observatory Place paving	\$300,000.00								\$0.00
Walworth Ave paving	\$300,000.00								\$0.00
State Road 67 reconstruction	\$500,000.00								\$1,295.63
Geneva St/Parking lots/bridge	\$1,035,000.00								\$0.00
Parks Department Projects									
Theatre Rd Baseball Fence	\$15,000.00	8/10/2022	8/24/2022	N/A	\$13,530.00				\$0.00
Restrooms/Concessions Theatre Rd	\$100,000.00								\$0.00
Upgrades to Theatre Rd baseball fields	\$25,000.00								\$0.00
Tennis/Basketball Courts	\$250,000.00								\$0.00
Remove Lions Field Tennis/Basketball Courts	\$30,000.00				\$23,250.00				\$0.00
Lions Field House updating with storage	\$100,000.00								\$0.00
Playgrounds (3)	\$200,000.00								\$0.00
Baywood Heights				N/A	\$42,023.00	Y			
Lion's Field				N/A	\$78,619.00	Y			
Edgewater Park									
Beach/Lakefront Projects									
Beach Cleaner	\$75,000.00	12/14/2022	12/19/2022	N/A	\$29,354.00	N/A			\$29,354.00
Utility Tractor **		12/14/2022	12/19/2022	N/A	\$34,406.58	N/A			
General Government IT Projects									
Village Server and IT Upgrades (11) desktops & (2) laptops	\$20,000.00		12/19/2022	N/A	\$10,864.11				\$10,275.98
New server									
Laserfiche Software	\$10,000.00	1/11/2023	1/16/2023	N/A	\$9,993.00	N-NEED GF COPY			\$0.00
Police Department Projects									
New Police Squad (292)	\$65,000.00								\$19,215.21
New Police Squad (294)	\$65,000.00								\$0.00
Squad Computers	\$15,000.00								\$0.00
Axon Fleet Vehicle Cameras (3)	\$45,000.00								\$0.00
Emergency Management Projects									
Emergency Management Vehicle	\$85,000.00	8/15/2022	8/15/2022	N/A	\$80,000.00				\$2,246.31
Fire & Rescue Projects									
Fire and EMS Equipment (Tanker and Ambulance)	\$200,000.00	11/16/2022	11/21/2022	N/A	\$198,980.00	Y			\$109,975.00
REMAINING LEVY SUPPORTED FUNDS									\$3,562,637.87
Water Utility Supported Projects									\$5,600,000.00
	Estimated amount used for borrowing	Committee approved date of project	VB approved date of project	Bid opening date (if applicable)	Bid/proposal amount	Signed contract/proposal on file (Y/N)	Project start date	Project end date	Total Project cost
Water Captial Projects									
Reactor Cleaning and Painting	\$200,000.00								\$2,505.00
State Road 67 Water replacement	\$1,000,000.00								\$262,281.02
Loch Vista Water Main	\$1,100,000.00								\$0.00
Chlorination Improvements	\$2,800,000.00								\$48,808.27
Southwick Creek Realignment	\$500,000.00								\$528.75
REMAINING WATER UTILITY SUPPORTED FUNDS									\$5,285,876.96

Sewer Utility Supported Projects									\$2,800,000.00
	<u>Estimated amount used for borrowing</u>	<u>Committee approved date of project</u>	<u>VB approved date of project</u>	<u>Bid opening date (if applicable)</u>	<u>Bid/proposal amount</u>	<u>Signed contract/proposal on file (Y/N)</u>	<u>Project start date</u>	<u>Project end date</u>	<u>Total Project cost</u>
Sewer Capital Projects									
Mainline repairs associated with televising	\$200,000.00								\$0.00
State Road 67 Sewer replacement	\$600,000.00								\$54,603.31
Harris Road Lift station upgrade	\$1,000,000.00								\$13,280.00
Harris Road Force Main	\$1,000,000.00								\$0.00
REMAINING SEWER SUPPORTED PROJECTS									\$2,732,116.69
REMAINING FUNDS (ALL PROJECTS)									\$11,580,631.52



VILLAGE OF WILLIAMS BAY

250 Williams Street | PO Box 580 | Williams Bay | WI | 53191 | williamsbay.org
Phone: 262-245-2700

UNOFFICIAL MINUTES WATER AND SEWER COMMITTEE WEDNESDAY, MARCH 15, 2023, AT 6:30 PM VILLAGE HALL COUNCIL ROOM

Call to Order

Meeting was called to order by Chairman Umans at 8:03pm

Roll Call

Trustees Jaramillo, Umans and Stanek

Also Present: President Duncan, Trustee D'Alessandro, Vlach and Wright, Interim Administrator Bretl, Treasurer Peternell, Director of Public Works Edwards, Police Chief Timm, Recreation Director Rowland, Harbormaster Blincoe and Engineer Snyder.

Meeting Minutes

Stanek/Umans motion to approve the meeting minutes of February 15, 2023. Jaramillo abstained; motion carried.

Baxter & Woodman Engineering Updates

Snyder provided an update on the following projects:

- State Road 67 Reconstruction

Contract has been awarded to Payne & Dolan and the utility subcontractor is Rock Road Contractors. Sanitary sewer installation has begun at the intersection of Elkhorn Road and Olive Street. As of March 10th, they have installed 70 feet of 12-inch sanitary sewer. They will continue to install sanitary sewer to the south and reconnect laterals as they go. Crews have also started work on the water main at Stark Street.

- Geneva Lake Dredging at Southwick Creek

The Village should prepare a bid package and be ready to start construction shortly after Labor Day.

- Water Loss and Infiltration Reduction

Continuing to work on tracking the strength of the wastewater to WalCoMet during both wet and dry periods.

- Water Main Asset Management Condition Study

Plan on having a draft report for review in March.

- Bailey Estates Phase 4 and Phase 5

Gerstad is working on the waiver packages and contractors' statements; expected to have by the end of March.

- Harris Road Lift Station

Baxter Woodman submitted a work order to begin Phase 1 improvements, anticipate bidding in April and construction to start after Labor Day. The WDNR accepted the project for funding but does not guarantee finding until the financial assistance application is approved.

- Corrosion Control Study – Ammonia Reduction – Lime Reactor Cleaning

Still working with the PSC to construct.

- Lime Reactor Cleaning

Baxter Woodman is preparing the bid package and the WDNR submittal. This project should bid as soon as possible but wait until after Labor Day to start construction.

- Well 2 Pump Replacement
- Baxter Woodman is preparing the bid package and the WDNR submittal. This project should bid as soon as possible but wait until after Labor Day to start construction.

- Women's Leadership Center

Recommended assistance from committees to get easements for future sanitary sewer and drainage improvements.

Public Works Update

No Report

Extension of Lease with U.S. Cellular

The Committee reviewed the proposed 2nd amendment lease agreement from U.S. Cellular. The proposal is to extend the lease for 5 years. Umans/Staneck motion to recommend Village Board approval of the 2nd amendment to the U.S. Cellular lease. Unanimously carried.

Adjourn

Staneck/Wright motion to adjourn at 8:33pm. Unanimously carried.

/s/ Lori Peternell, Village Treasurer

These are not official minutes until approved by the Water and Sewer Committee

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

State Road 67 Reconstruction—North South Section – Project No. 181194

- The Contractor is Payne & Dolan; the utility subcontractor is Rock Road Contractors.
- The utility work is about 90 percent complete; we are meeting with the WDOT today to get an update on any necessary change orders. Our best guess is that there is approximately \$20,000 of additional work due to the site conditions. Detailed information will be provided prior to the May meetings.



Sanitary Sewer Replacement



Water Main Replacement

- See the separate memo regarding the additional sidewalk replacement on Elkhorn Road between Olive Street and Stark Street.
- The State will update the State Municipal Agreement when construction is complete.

Water Loss and Infiltration Reduction -- Project No. 191368

- This project consists of engineering assistance to the staff to find sources of water loss in the drinking water system and sources of infiltration in the sanitary sewer system.
- We are continuing to work with staff to assign individual water meters to a sewage lift station drainage basin and begin collecting and comparing the data on a quarterly basis.
- We are currently tracking the strength of the wastewater to WalCoMet during both wet and dry periods.

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

Geneva Lake Dredging at Southwick Creek

- The Village received a permit on April 5, 2023, to dredge Geneva Lake at the outlet of Southwick Creek. See the separate packet dated April 6, 2023.
- The Village should prepare a bid package and be ready to start construction shortly after Labor Day.



Figure 1: Bathymetric Map

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

Water Main Asset Management Report – Condition Study -- Project No. 210417

- The Project consists of providing a plan to rehabilitate or replace the existing water mains that are older than 1950; see Figure 2. The Village has numerous water main segments that date back as early as the 1930's; some under roadways and others through woodlands.
- This plan inventories the water main segments and assesses their condition based on several variables including age, diameter, pipe material, soil conditions, number and types of previous breaks, and internal roughness.
- We recently added the historical break information since 2016; most of the breaks were in the 1930's section west of the Lake or within Cedar Point Park.
- Our efforts this month were on the remaining projects. We hope to have a draft copy for the May meeting.

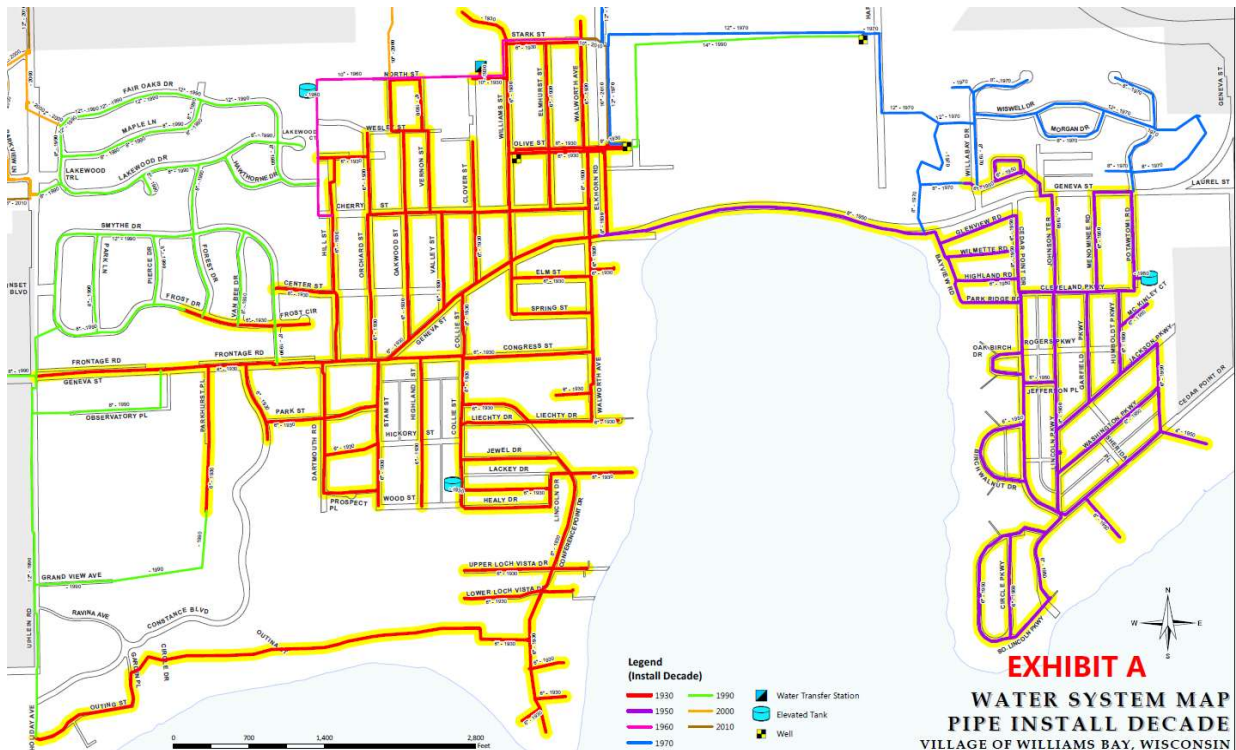


Figure 2: Water System Map Excerpt

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

Bailey Estates – Phase 4 -- Project No. 190695

See Figure 3; Gerstad Builders is working on the waiver packages and contractors' statements; these are expected soon. This phase included two infiltration basins on Outlot 1 and Outlot 4.

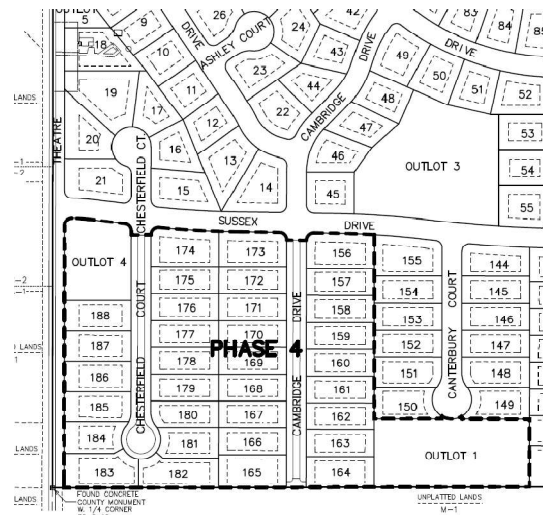


Figure 3: Phase 4 – Bailey Estates

Bailey Estates – Phase 5 -- Project No. 210949

- See Figure 4. Also see the separate memo regarding the reduction in the letter of credit for the utility and roadway construction. They still need the final lift of asphalt and the trees.

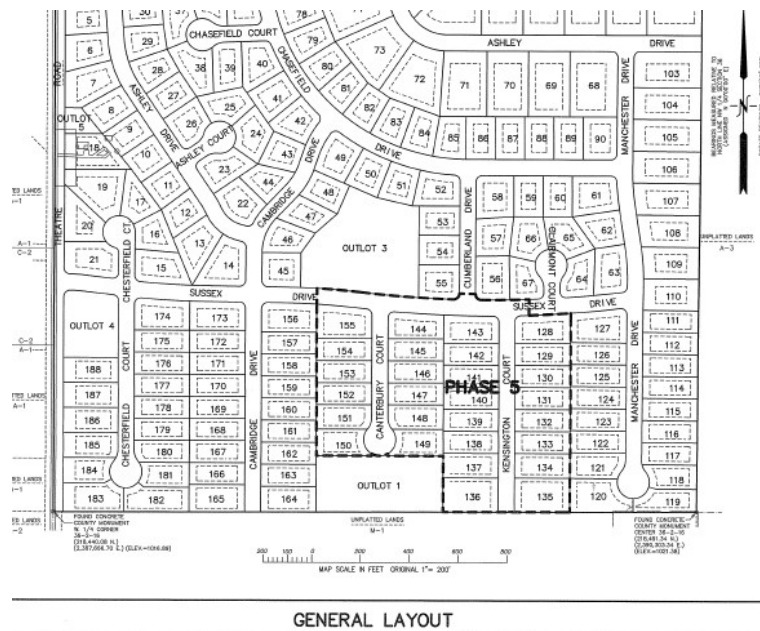


Figure 4: Phase 5 – Bailey Estates

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

Harris Road Lift Station (LS 3) Replacement – Project No. 211304

- The first phase includes the replacement of the station; the second phase includes the rerouting of the discharge force. See Figure 5. The route for the future force main is unknown.



Figure 5- Overview and Force Main Route

- The WDNR accepted this project for funding; the funding approval will depend on the financial assistance application.
- We are actively designing Phase 1 of this project and preparing an estimate for the alternate force main locations.

Corrosion Control Study and Ammonia Reduction Plan—Project No. 211778

- The study from Water Quality Investigations and The Engineer's Report were submitted to the WDNR in early December with a request for a full-scale pilot study.
- The full-scale pilot study will allow the Village to demonstrate that the chlorine addition will solve the issue before investing the funds for the final equipment and building addition. The WDNR has exceeded their 90 days to respond.
- We are still waiting for review comments from the WDNR and working on the Wisconsin Public Service Commission's Authority to Construct.

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

Lime Reactor Cleaning – Project No. 222278

- The lime softening reactor is a 134,500-gallon concrete basin located in the water plant that equipped with metal mechanical clarifier equipment including a cone, baffles, and weirs. The metal cone separates the inner mixing and flocculating zones from the outer clarification zone. The metal equipment is supported by the top of the concrete basin by a steel bridge and is rotated by a drive assembly.
- The calcium hydroxide and contaminants adhere to the metal surfaces of the cone, baffles, and weirs and the concrete surfaces of the basin and must be removed by mechanical means periodically to allow the mechanisms to continue to rotate; the last time was about 20 years ago. The metal surfaces will be prepared and repainted and the basin disinfected prior to being placed in to service.
- We are currently preparing the bid package and the WDNR submittal. This project should bid as soon as possible, but wait until after Labor Day to start construction.

Well 2 Pump Replacement – Project No. 221236

- The well pump in Well 2 was installed in 1984 and was repaired in 1989 and 2007; it has the original 800 gallons per minute pump with a 50-horsepower motor; it was throttled (wasting energy) to 200 gallons per minute after Well 3 was put online in 1999. An adjustable speed (variable frequency) drive was added in 2007 to reduce some energy usage. The pump is still hydraulically inefficient due to the size and the declining water level in the aquifer.
- The electric service to this building may be 240 volt 3-Phase. Alliant Energy no longer provides replacement transformers for this service and may require the service to be either 208 or 480 volts.
- The Village performed similar work on Well 1 in 2014 and was able to reduce the motor size from 50 HP to 30 HP and save energy cost due to the difference in pump efficiency.
- We are currently preparing the bid package and WDNR submittal. This project should bid as soon as possible but wait until after Labor Day for construction.

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

Women's Leadership Center – Project Number 222626

- We assisted with fire flow testing on March 29, 2023.
- The latest concept plan showed replacement of the public water main on the property, a private sanitary collection system with a single connection to the public sewer at the southwest corner of the property, and infiltration trenches for control of site stormwater. The developer is planning to oversize the onsite stormwater system to allow for the expansion of Constance Boulevard in the future. We still seek easements for future sanitary sewer and drainage improvements identified in the snips below.



EXHIBIT A DRAFT
CONCEPT PLAN - ROADWAY AND DRAINAGE
Yerkes Future Foundation Development
Village of Williams Bay, Wisconsin

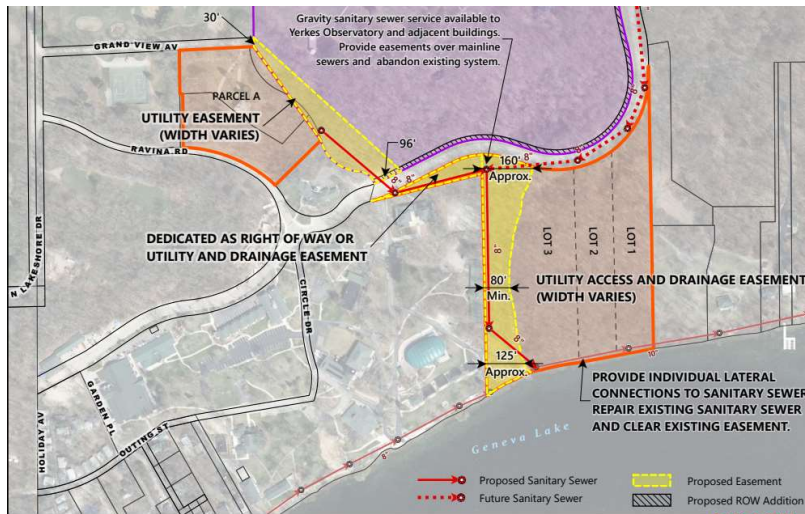
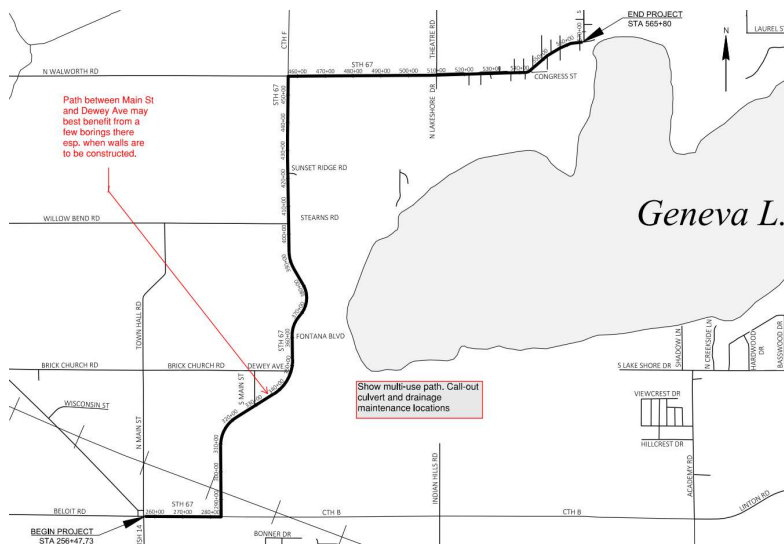


EXHIBIT B DRAFT
CONCEPT PLAN - SANITARY SEWER
Yerkes Future Foundation Development
Village of Williams Bay, Wisconsin

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

STH 67 Reconstruction: East - West Section - Project Number 230260

- This project involves milling and resurfacing STH 67 from Elkhorn Road to STH 14 in Walworth; see the snip below; the plans are currently at 30% completion.
- The Village has made WDOT aware of potential sanitary sewer and water main upgrades; see the snip showing sanitary sewer on the route; public works has obtained sewer televising information; the Village's scope of work must be submitted to WDOT in May 2023. This section of roadway has water main from 1936 that should be replaced, like what is planned in Elkhorn Road between Stark Street and Geneva Street. We plan to have a recommendation ready for Village review following the sanitary sewer televising.
- Construction is expected to take place mid to late 2026 or 2027.



Project Overview

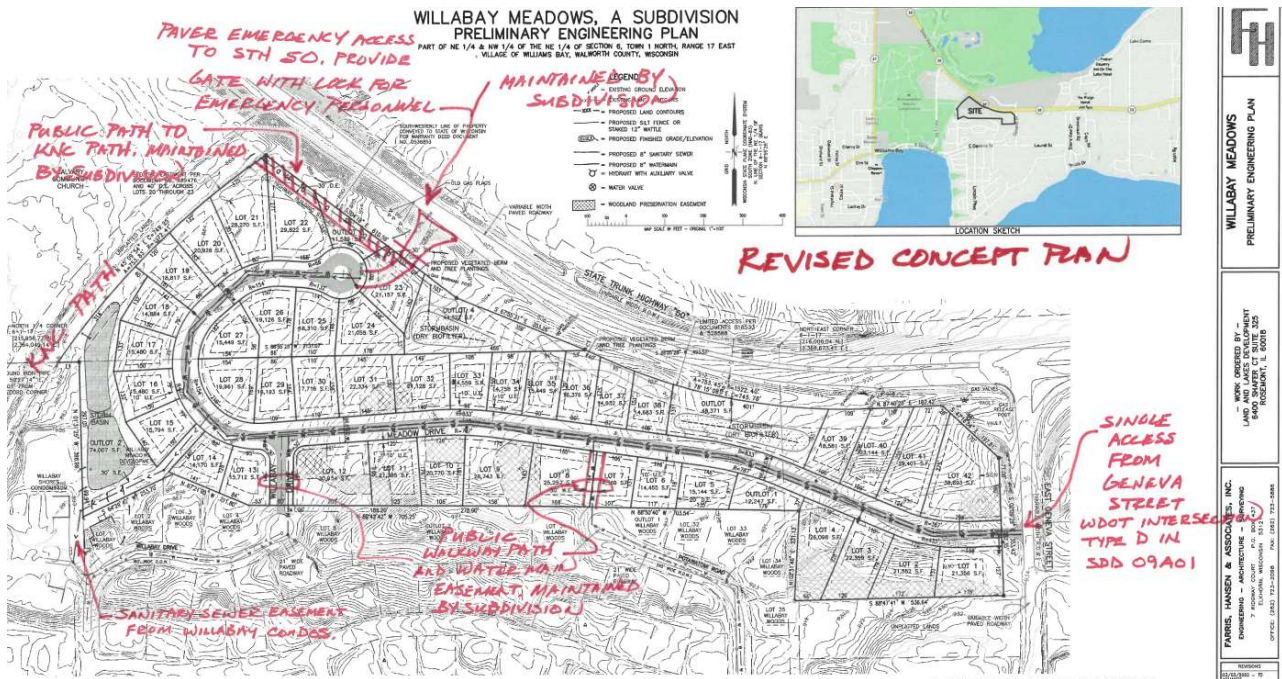


Sanitary Sewer Televising

VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

Willabay Meadows Development – Project Number 230260

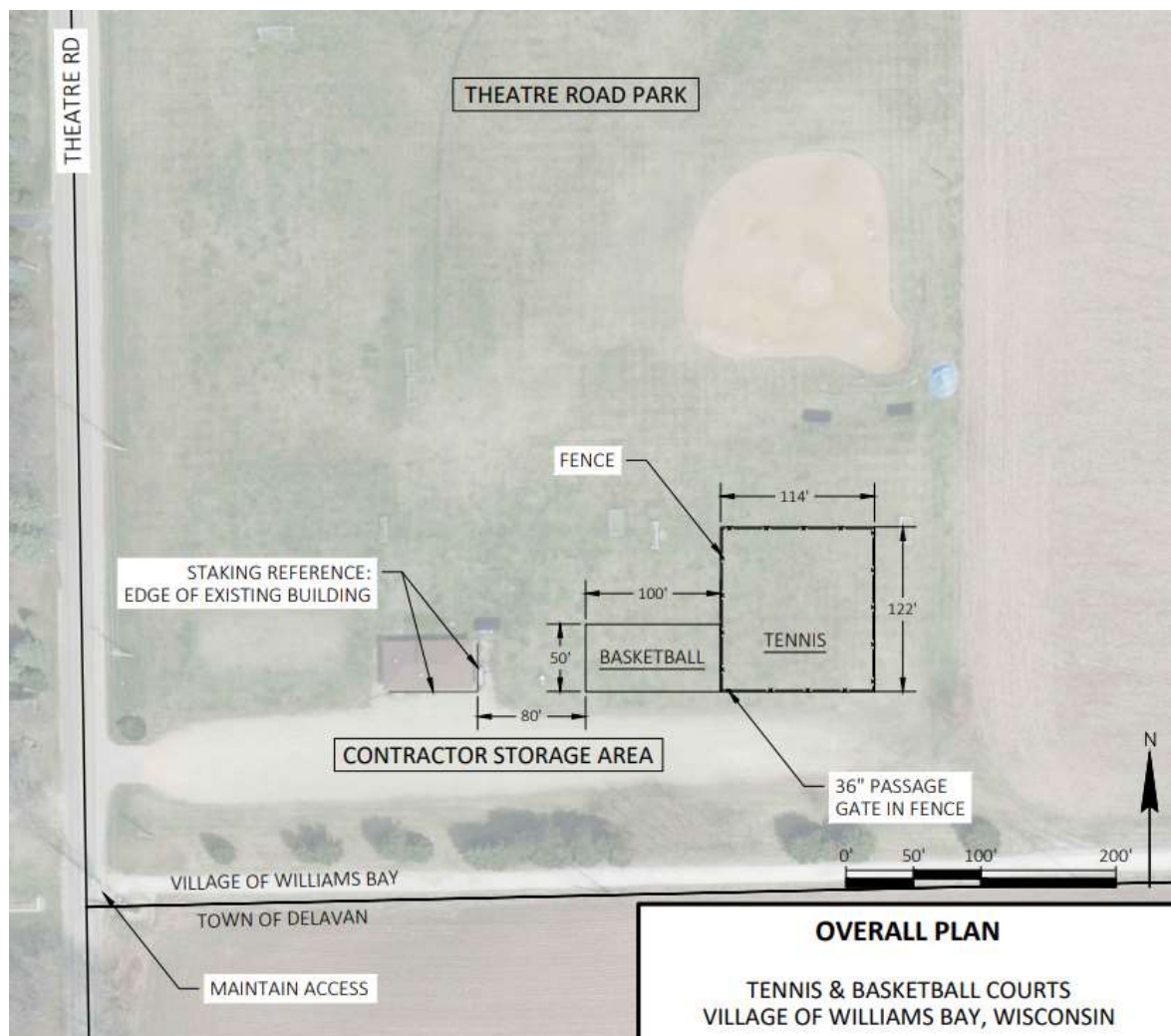
- See the concept plan below; their engineer called in March to notify us that they are still collecting data on the trees; they are also resisting an emergency access to STH 50 at the existing farm entrance.
- The WDOT has provided our office written approval of this concept. In addition, this alternate design allows for access meeting the requirements of fire department and allows for gravity sanitary sewer service to all lots in the subdivision.



VILLAGE OF WILLIAMS BAY
Engineer's Report
April 6, 2023

Tennis and Basketball at Theatre Road Park – Project Number 230496

- See the snip below. The Village bid this project in December of 2022 without provision for drainage under the pavement and without performance guidelines for the lighting system. In the meantime, the bids expired, and the low bidder does not appear willing to move forward to a contract with the Village.
- We will prepare a project understanding memo soon that outlines options available to the Village and a proposed plan to obtain separate bids for the sitework and electrical work associated with this project. This work should be able to be complete in the fall of 2023.



P:\WLMSV\General\Admin\Monthly Reports\2023\02-2023\02-09-23.docx

SECOND AMENDMENT TO OPTION AND GROUND AGREEMENT

This Second Amendment ("Second Amendment"), made this _____ day of _____, 20____, modifies that certain amended Option and Ground Agreement dated July 7, 1997 ("Agreement") between Village of Williams Bay, a Wisconsin Municipal Corporation, having an address at 250 Williams Street, P.O. Box 580, Williams Bay, Wisconsin 53191("Lessor") and United States Cellular Operating Company LLC, a Delaware limited liability company, Attention: Real Estate Lease Administration, 8410 West Bryn Mawr Avenue, Chicago, Illinois, 60631, ("Lessee").

WHEREAS, pursuant to the Agreement, Lessor has leased to Lessee certain premises located on the water tower located on property in the Village of Williams Bay, Walworth County, State of Wisconsin (the "Premises") for use as a telecommunications site; and

WHEREAS, both the Lessor and the Lessee desire to extend the length of the Agreement.

NOW, THEREFORE, in consideration of the terms of the Option and Ground Agreement and this Second Amendment, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Lessor and Lessee agree as follows:

- I. Agreement Paragraph 4 is hereby modified only to the extent that the amount of additional five (5) years extension terms are increased from four (4) to five (5) extension terms.
- II. The annual rent commencing on the fifth (5th) extension term will be Twelve Thousand Sixty- Nine Dollars and 25/100 (12,069.25).
- III. Agreement Paragraph 7 is hereby modified only to the extent that the language in this paragraph will apply after the end of the fifth (5th) extension term.
- IV. Notwithstanding anything to the contrary in the Lease, this Lease can be terminated with six (6) months prior written notice by either party if the Lessor undertakes construction or causes the undertaking of construction of a freestanding tower ("Tower") capable of accommodating Lessee's antennas and associated equipment.
- V. During the period of construction of the Tower, the parties agree to engage in good faith negotiations to enter into a new Lease between Lessor and Lessee, to locate Lessee's antenna and associated equipment on the Tower ~~and within the surrounding designated area, effective within 60 days or completion of the Tower.~~
- VI. Except as amended herein, all other terms of the Agreement remain unchanged and in full force and effect.

[END OF DOCUMENT - SIGNATURE PAGE FOLLOWS]

Site Name: Williams Bay

Site Number: 786318

IN WITNESS WHEREOF, Lessor and Lessee have executed this Second Amendment as of the last signature date below.

LESSOR: Village of Williams Bay

LESSEE: United States Cellular Operating Company LLC

By: _____

By: _____

Printed: _____

Printed: _____

Title: _____

Title: Vice President

Date: _____

Date: _____

[NOTARY PAGE TO FOLLOW]

Site Name: Williams Bay

Site Number: 786318

STATE OF _____)
)
COUNTY OF _____)

I, the undersigned, a notary public in and for the State and County aforesaid, do hereby certify that _____ (and) _____, known to me to be the same person(s) whose name(s) (is) (are) subscribed to the foregoing Second Amendment to Option and Ground Agreement, appeared before me this day in person and (severally)acknowledged that (he) (she) (they) signed the said Lease as (his) (her) (their) free and voluntary act for the uses and purposes therein stated.

Given under my hand and seal this _____ day of _____, 20__.

Notary Public
My commission expires _____

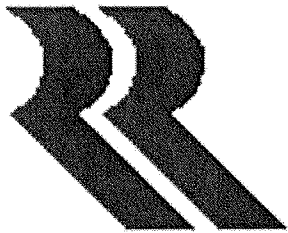
STATE OF ILLINOIS)
)
COUNTY OF COOK)

I, the undersigned, a notary public in and for the State and County aforesaid, do hereby certify that _____, Vice President, for United States Cellular Operating Company LLC known to me to be the same person whose name is subscribed to the foregoing Second Amendment to Ground Lease, appeared before me this day in person and acknowledged that, pursuant to his/her authority, he/she signed the said Lease as his/her free and voluntary act on behalf of the named Lessee, for the uses and purposes therein stated.

Given under my hand and seal this _____ day of _____, 20__.

Notary Public
My commission expires _____

Commented [JS1]: Who will sign for the Village? I will modify this section



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (PLAN ISSUES)	Bid Number:	51.23015.99001/2
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99001/2.1	March 6th Sanitary/Watermain Plan Errors	1.00	LS	\$4,578.23	\$4,578.23

Total Bid Price: \$4,578.23

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

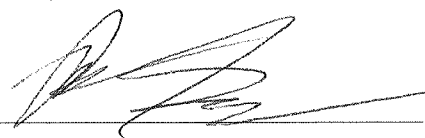
Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature: 

Estimator: Patrick W. Gardner

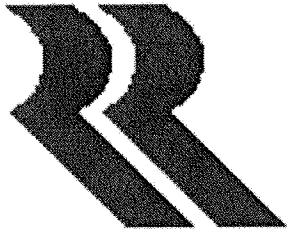
Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/6/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	4.00	4.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 183.08	\$ 183.08
Foreman	4.00	4.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 183.08	\$ 183.08
Foreman	4.00	4.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 183.08	\$ 183.08
Operator	3.00	3.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 126.81	\$ 126.81
Operator	3.00	3.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 126.81	\$ 126.81
Operator	3.00	3.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 126.81	\$ 126.81
SUBTOTAL - LABOR	21.00	21.00	-				\$ 929.67	\$ 929.67
	total hours		21.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)			-	Hr @			\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3			-	Hr @			\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund			-	Hr @			\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund			-	Hr @			\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			12.00	Hr @			\$ 26.50	\$ 318.00
Labor Local 464 Pension & Welfare Fund			9.00	Hr @			\$ 18.85	\$ 169.65
			21.00					
Subtotal - Labor								\$ 1,417.32
Plus 35% of Labor		35%	\$ 1,417.32					\$ 496.06
Subtotal - Labor								\$ 1,913.38
Workman's Compensation Ins &								
Liability & Property Damage Ins			12.00%	\$ 929.67			\$ 111.56	
Federal Unemployment Tax			0.60%	\$ 929.67			\$ 5.58	
State Unemployment Tax			4.45%	\$ 929.67			\$ 41.37	
Federal Social Security Tax - Medicare			1.45%	\$ 929.67			\$ 13.48	
Federal Social Security Tax - OASDI			6.20%	\$ 929.67			\$ 57.64	
TOTAL PAYROLL ADDITIVES							229.63	
Plus 15% of Payroll Additives							34.44	
								264.07
TOTAL LABOR								\$ 2,177.45

Equipment Expenses	6-Mar	Total Hours	Rate	Amount
Foreman Vehicle	6.00	6.00	\$ 34.93	\$ 209.58
Kubota Mini	4.00	4.00	\$ 89.82	\$ 359.28
CAT 336	4.00	4.00	\$ 193.98	\$ 775.92
Total Equipment Expense				\$ 1,344.78

Equipment Rental/Subcontracted Work	6-Mar	Total Quantity	Unit	Unit Price	Amount
Quad Axle	8.00	8.00	Day	\$ 120.00	\$ 960.00
Equipment Rent / Subcontract Subtotal					\$ 960.00
Plus 10% on the 1st \$10,000		10%	\$ 960.00		\$ 96.00
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ 1,056.00

Material Used	6-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 2,177.45
Total Equipment	\$ 1,344.78
Total Subcontract Work	\$ 1,056.00
Total Materials	\$ -
Total Bill	\$ 4,578.23



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (March 15th)	Bid Number:	51.23015.99005
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99005.1	March 15th Required Stop	1.00	LS	\$2,942.44	\$2,942.44

Total Bid Price: \$2,942.44

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature: 

Estimator: Patrick W. Gardner

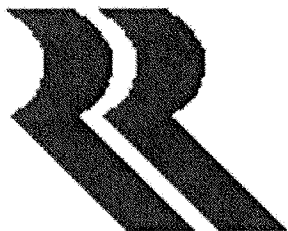
Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/15/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	5.00	5.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 228.85	\$ 228.85
Foreman	5.00	5.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 228.85	\$ 228.85
Operator	5.00	5.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 211.35	\$ 211.35
Laborer	5.00	5.00	-	\$ 36.87	\$ 55.31	\$ 73.74	\$ 184.35	\$ 184.35
SUBTOTAL - LABOR	20.00	20.00	-				\$ 853.40	\$ 853.40
	total hours		20.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)			-	Hr @			\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3			-	Hr @			\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund			-	Hr @			\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund			-	Hr @			\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			15.00	Hr @			\$ 26.50	\$ 397.50
Labor Local 464 Pension & Welfare Fund			5.00	Hr @			\$ 18.85	\$ 94.25
			20.00					
Subtotal - Labor								\$ 1,345.15
Plus 35% of Labor		35%	\$ 1,345.15					\$ 470.80
Subtotal - Labor								\$ 1,815.95
Workman's Compensation Ins &								
Liability & Property Damage Ins								
			12.00%	\$ 853.40			\$ 102.41	
Federal Unemployment Tax								
			0.60%	\$ 853.40			\$ 5.12	
State Unemployment Tax								
			4.45%	\$ 853.40			\$ 37.98	
Federal Social Security Tax - Medicare								
			1.45%	\$ 853.40			\$ 12.37	
Federal Social Security Tax - OASDI								
			6.20%	\$ 853.40			\$ 52.91	
TOTAL PAYROLL ADDITIVES								210.79
Plus 15% of Payroll Additives								31.62
								242.41
TOTAL LABOR								\$ 2,058.36

Equipment Expenses	15-Mar	Total Hours	Rate	Amount
Foreman Vehicle	4.00	4.00	\$ 34.93	\$ 139.72
CAT 336	2.00	2.00	\$ 193.98	\$ 387.96
Total Equipment Expense				\$ 527.68

Equipment Rental/Subcontracted Work	15-Mar	Total Quantity	Unit	Unit Price	Amount
Quad Axle	3.00	3.00	Day	\$ 108.00	\$ 324.00
Equipment Rent / Subcontract Subtotal					\$ 324.00
Plus 10% on the 1st \$10,000		10%	\$ 324.00		\$ 32.40
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ 356.40

Material Used	15-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 2,058.36
Total Equipment	\$ 527.68
Total Subcontract Work	\$ 356.40
Total Materials	\$ -
Total Bill	\$ 2,942.44



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (Casing)	Bid Number:	51.23015.99006
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99006.1	Watermain Casing	1.00	LS	\$2,870.14	\$2,870.14

Total Bid Price: \$2,870.14

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature:  _____

Estimator: Patrick W. Gardner

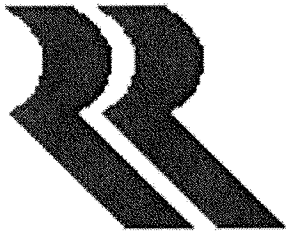
Name	Date(s)	Total Hours			Rates			Insurance Amount	Payroll Amount
	3/24/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate			
Foreman	5.00	5.00	-	\$ 45.77	\$ 68.66	\$ 91.54	\$ 228.85	\$ 228.85	
Operator	5.00	5.00	-	\$ 42.27	\$ 63.41	\$ 84.54	\$ 211.35	\$ 211.35	
Laborer	5.00	5.00	-	\$ 36.87	\$ 55.31	\$ 73.74	\$ 184.35	\$ 184.35	
SUBTOTAL - LABOR		15.00	15.00	-			\$ 624.55	\$ 624.55	
total hours			15.00						
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)				-	Hr	@	\$ 44.91	\$ -	
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3				-	Hr	@	\$ 45.58	\$ -	
Labor Local 32 Pension & Welfare Fund				-	Hr	@	\$ 35.83	\$ -	
Teamster Local 325 Pension & Welfare Fund				-	Hr	@	\$ 26.16	\$ -	
Operating Engineer Local 139 Pension & Welfare Fund				10.00	Hr	@	\$ 26.50	\$ 265.00	
Labor Local 464 Pension & Welfare Fund				5.00	Hr	@	\$ 18.85	\$ 94.25	
				15.00					
Subtotal - Labor								\$ 983.80	
Plus 35% of Labor				35%	\$	983.80		\$ 344.33	
Subtotal - Labor								\$ 1,328.13	
Workman's Compensation Ins &									
Liability & Property Damage Ins				12.00%	\$	624.55	\$ 74.95		
Federal Unemployment Tax				0.60%	\$	624.55	\$ 3.75		
State Unemployment Tax				4.45%	\$	624.55	\$ 27.79		
Federal Social Security Tax - Medicare				1.45%	\$	624.55	\$ 9.06		
Federal Social Security Tax - OASDI				6.20%	\$	624.55	\$ 38.72		
TOTAL PAYROLL ADDITIVES							154.27		
Plus 15% of Payroll Additives							23.14		
								177.41	
TOTAL LABOR								\$ 1,505.54	

Equipment Expenses	24-Mar	Total Hours	Rate	Amount
Foreman Vehicle	2.00	2.00	\$ 34.93	\$ 69.86
CAT 336	3.00	3.00	\$ 193.98	\$ 581.94
Total Equipment Expense				\$ 651.80

Equipment Rental/Subcontracted Work	24-Mar	Total Quantity	Unit	Unit Price	Amount
Quad Axle	6.00	6.00	Day	\$ 108.00	\$ 648.00
Equipment Rent / Subcontract Subtotal					\$ 648.00
Plus 10% on the 1st \$10,000		10%	\$ 648.00		\$ 64.80
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ 712.80

Material Used	24-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 1,505.54
Total Equipment	\$ 651.80
Total Subcontract Work	\$ 712.80
Total Materials	\$ -
Total Bill	\$ 2,870.14



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (WM REPAIR)	Bid Number:	51.23015.99008
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99008.1	WATERMAIN BREAK REPAIR	1.00	EACH	\$2,013.60	\$2,013.60

Total Bid Price: \$2,013.60

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

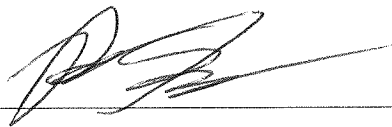
Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature:  _____

Estimator: Patrick W. Gardner

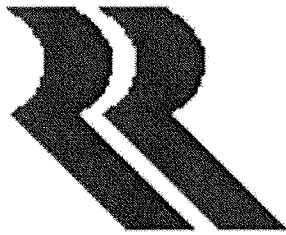
Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/24/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	2.00	-	2.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 91.54	\$ 137.31
Foreman	2.00	-	2.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 91.54	\$ 137.31
Foreman	2.00	-	2.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 91.54	\$ 137.31
Operator	2.00	-	2.00	\$ 42.27	\$ 63.41	\$ 84.54	\$ 84.54	\$ 126.81
Laborer	2.00	-	2.00	\$ 36.87	\$ 55.31	\$ 73.74	\$ 73.74	\$ 110.61
SUBTOTAL - LABOR	10.00	-	10.00				\$ 432.90	\$ 649.35
	total hours		10.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)		-	Hr @				\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3		-	Hr @				\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund		-	Hr @				\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund		-	Hr @				\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			8.00 Hr @				\$ 26.50	\$ 212.00
Labor Local 464 Pension & Welfare Fund			2.00 Hr @				\$ 18.85	\$ 37.70
			10.00					
Subtotal - Labor								\$ 899.05
Plus 35% of Labor		35%	\$ 899.05					\$ 314.67
Subtotal - Labor								\$ 1,213.72
Workman's Compensation Ins &								
Liability & Property Damage Ins			12.00%	\$ 432.90			\$ 51.95	
Federal Unemployment Tax			0.60%	\$ 649.35			\$ 3.90	
State Unemployment Tax			4.45%	\$ 649.35			\$ 28.90	
Federal Social Security Tax - Medicare			1.45%	\$ 649.35			\$ 9.42	
Federal Social Security Tax - OASDI			6.20%	\$ 649.35			\$ 40.26	
TOTAL PAYROLL ADDITIVES							134.43	
Plus 15% of Payroll Additives							20.16	
								154.59
TOTAL LABOR								\$ 1,368.31

Equipment Expenses	24-Mar	Total Hours	Rate	Amount
Foreman Vehicle	6.00	6.00	\$ 34.93	\$ 209.58
CAT 420 Backhoe	1.00	1.00	\$ 87.73	\$ 87.73
CAT 329F Backhoe	2.00	2.00	\$ 173.99	\$ 347.98
Total Equipment Expense				\$ 645.29

Equipment Rental/Subcontracted Work	24-Mar	Total Quantity	Unit	Unit Price	Amount
	0.00 0	-	Day	\$ -	\$ -
Equipment Rent / Subcontract Subtotal					\$ -
Plus 10% on the 1st \$10,000		10%	\$ -		\$ -
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ -

Material Used	24-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 1,368.31
Total Equipment	\$ 645.29
Total Subcontract Work	\$ -
Total Materials	\$ -
Total Bill	\$ 2,013.60



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (HYDRANT RELOCATE)		
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI		
		Bid Number:	51.23015.99009
		Bid Date:	3/31/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
99009.1	WATERMAIN BREAK REPAIR	1.00	EACH	\$1,269.48	\$1,269.48

Total Bid Price: \$1,269.48

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature: _____

Estimator: Patrick W. Gardner

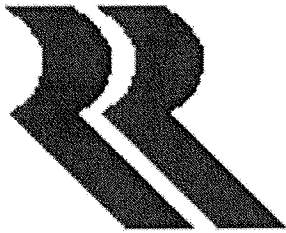
Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/24/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	2.00	1.00	1.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 91.54	\$ 114.43
Operator	2.00	-	2.00	\$ 42.27	\$ 63.41	\$ 84.54	\$ 84.54	\$ 126.81
Operator	2.00	-	2.00	\$ 42.27	\$ 63.41	\$ 84.54	\$ 84.54	\$ 126.81
Laborer	2.00	-	2.00	\$ 36.87	\$ 55.31	\$ 73.74	\$ 73.74	\$ 110.61
SUBTOTAL - LABOR	8.00	1.00	7.00				\$ 334.36	\$ 478.66
	total hours		8.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)		-	Hr @				\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3		-	Hr @				\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund		-	Hr @				\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund		-	Hr @				\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund			6.00 Hr @				\$ 26.50	\$ 159.00
Labor Local 464 Pension & Welfare Fund			2.00 Hr @				\$ 18.85	\$ 37.70
			8.00					
Subtotal - Labor								\$ 675.36
Plus 35% of Labor		35%	\$ 675.36					\$ 236.37
Subtotal - Labor								\$ 911.73
Workman's Compensation Ins &								
Liability & Property Damage Ins			12.00%	\$ 334.36			\$ 40.12	
Federal Unemployment Tax			0.60%	\$ 478.66			\$ 2.87	
State Unemployment Tax			4.45%	\$ 478.66			\$ 21.30	
Federal Social Security Tax - Medicare			1.45%	\$ 478.66			\$ 6.94	
Federal Social Security Tax - OASDI			6.20%	\$ 478.66			\$ 29.68	
TOTAL PAYROLL ADDITIVES							100.91	
Plus 15% of Payroll Additives							15.14	
								116.05
TOTAL LABOR							\$	1,027.78

Equipment Expenses	24-Mar	Total Hours	Rate	Amount
Foreman Vehicle	2.00	2.00	\$ 34.93	\$ 69.86
CAT 938M Loader	2.00	2.00	\$ 85.92	\$ 171.84
Total Equipment Expense				\$ 241.70

Equipment Rental/Subcontracted Work	24-Mar	Total Quantity	Unit	Unit Price	Amount
	0.00	-	Day	\$ -	\$ -
Equipment Rent / Subcontract Subtotal					\$ -
Plus 10% on the 1st \$10,000		10%	\$ -		\$ -
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ -

Material Used	24-Mar	Total Quantity	Unit	Unit Price	Amount
Subtotal Material					\$ -
Plus		15%	\$ -		\$ -
Total Material					\$ -

Total Labor	\$ 1,027.78
Total Equipment	\$ 241.70
Total Subcontract Work	\$ -
Total Materials	\$ -
Total Bill	\$ 1,269.48



ROCK ROAD COMPANIES, INC.

• P.O. Box 1818 • Janesville, WI 53547-1818 • Phone (608) 752-8944 • Fax: (608) 365-1113

To:	Payne & Dolan	Contact:	Matt Gregg
Address:	PO BOX 781 Waukesha, WI 53187	Phone:	(262) 524-1700
		Fax:	(262) 524-1845
Project Name:	WDOT JAN #15 STH 67 WALWORTH CTY (8" FORCE MAIN)	Bid Number:	51.23015.99010
Project Location:	WALWORTH - ELKHORN; GENEVA ST TO GLENWOOD DR, WALWORTH, WI	Bid Date:	1/10/2023

Item #	Item Description	Estimated Quantity	Unit	Unit Price	Total Price
990010,1	FIND 8" FORCE MAIN	1.00	EACH	\$11,111.82	\$11,111.82

Total Bid Price: \$11,111.82

Notes:

- SEE ATTACHED JUSTIFICATION

ACCEPTED:

The above prices, specifications and conditions are satisfactory and are hereby accepted.

Buyer: _____

Signature: _____

Date of Acceptance: _____

CONFIRMED:

Rock Road Companies, Inc.

Authorized Signature: _____

Estimator: Patrick W. Gardner

Name	Date(s)	Total Hours		Rates			Insurance Amount	Payroll Amount
	3/29/23	S.T.	O.T.	Hourly Rate	O.T. Rate	D.T. Rate		
Foreman	11.00	8.00	3.00	\$ 45.77	\$ 68.66	\$ 91.54	\$ 503.47	\$ 572.13
Operator	10.50	8.00	2.50	\$ 42.27	\$ 63.41	\$ 84.54	\$ 443.84	\$ 496.67
Operator	10.50	8.00	2.50	\$ 42.27	\$ 63.41	\$ 84.54	\$ 443.84	\$ 496.67
Laborer	8.00	8.00	-	\$ 36.87	\$ 55.31	\$ 73.74	\$ 294.96	\$ 294.96
SUBTOTAL - LABOR	40.00	32.00	8.00				\$ 1,686.10	\$ 1,860.43
	total hours		40.00					
Operating Engineer Local 150 Pension & Welfare Fund - Dist. 4 (Winn/Boone)		-	Hr	@			\$ 44.91	\$ -
Operating Engineer Local 150 Pension & Welfare Fund - District 1-3		-	Hr	@			\$ 45.58	\$ -
Labor Local 32 Pension & Welfare Fund		-	Hr	@			\$ 35.83	\$ -
Teamster Local 325 Pension & Welfare Fund		-	Hr	@			\$ 26.16	\$ -
Operating Engineer Local 139 Pension & Welfare Fund		32.00	Hr	@			\$ 26.50	\$ 848.00
Labor Local 464 Pension & Welfare Fund		8.00	Hr	@			\$ 18.85	\$ 150.80
			40.00					
Subtotal - Labor								\$ 2,859.23
Plus 35% of Labor		35%	\$ 2,859.23					\$ 1,000.73
Subtotal - Labor								\$ 3,859.96
Workman's Compensation Ins &								
Liability & Property Damage Ins								
Federal Unemployment Tax								
State Unemployment Tax								
Federal Social Security Tax - Medicare								
Federal Social Security Tax - OASDI								
TOTAL PAYROLL ADDITIVES								438.61
Plus 15% of Payroll Additives								65.79
								504.40
TOTAL LABOR								\$ 4,364.36

Equipment Expenses	29-Mar	Total Hours	Rate	Amount
Foreman Vehicle	2.00	2.00	\$ 34.93	\$ 69.86
CAT 938M Loader	10.50	10.50	\$ 85.92	\$ 902.16
CAT 336	10.50	10.50	\$ 193.98	\$ 2,036.79
Total Equipment Expense				\$ 3,008.81

Equipment Rental/Subcontracted Work	29-Mar	Total Quantity	Unit	Unit Price	Amount
Quad Axle	20.00	20.00	HRS	\$ 108.00	\$ 2,160.00
Equipment Rent / Subcontract Subtotal					\$ 2,160.00
Plus 10% on the 1st \$10,000		10%	\$ 2,160.00		\$ 216.00
Plus 2% thereafter		2%	\$ -		\$ -
Total Equipment Rent and Subcontract Work					\$ 2,376.00

Material Used	29-Mar	Total Quantity	Unit	Unit Price	Amount
1.25" DGB (Taken From Stock)	45.68	45.68	TON	\$ 6.50	\$ 296.92
Bank Run (Taken From Stock)	87.42	87.42	TON	\$ 3.00	\$ 262.26
CM-11 3/4" Washed (Taken From Stock)	43.33	43.33	TON	\$ 8.50	\$ 368.31
8" Cap	1.00	1.00	EA	\$ 156.14	\$ 156.14
8" Mega Lug	1.00	1.00	EA	\$ 101.28	\$ 101.28
Subtotal Material					\$ 1,184.91
Plus		15%	\$ 1,184.91		\$ 177.74
Total Material					\$ 1,362.65

Total Labor	\$ 4,364.36
Total Equipment	\$ 3,008.81
Total Subcontract Work	\$ 2,376.00
Total Materials	\$ 1,362.65
Total Bill	\$ 11,111.82



VILLAGE OF WILLIAMS BAY

250 Williams Street | PO Box 580 | Williams Bay | WI | 53191 | williamsbay.org
Phone: 262-245-2700

OFFICIAL MINUTES BUILDING, ZONING AND ORDINANCE COMMITTEE WEDNESDAY, FEBRUARY 15, 2023, AT 6:30 PM VILLAGE HALL COUNCIL ROOM

Call to Order

Meeting was called to order by Chairman Jaramillo at 7:14pm

Roll Call

Trustees Jaramillo, Vlach, and Wright

Also Present: President Duncan, Trustee D'Alessandro, Stanek, Umans, Interim Administrator Bretl, Treasurer Peternell, Director of Public Works Edwards, Police Chief Timm, Recreation Director Rowland and Engineer Snyder.

Meeting Minutes

Vlach/Wright motion to approve the meeting minutes of February 15, 2023. Jaramillo abstained; motion carried.

Consider update to 238-1 concerning minor curfew

Discussion was held regarding changing the curfew hours to be consistent with neighboring communities of Lake Geneva and Fontana. It was the consensus of the Committee to direct the Attorney to draft an ordinance change to reflect the curfew hours to 11:00 p.m. on any Sunday, Monday, Tuesday, Wednesday, or Thursday until 6:00 am of the following day, and 12:01 a.m. until 6:00 a.m. on and Saturday or Sunday.

Review of certain ordinances identified in the codification process

Bretl stated that during the codification process in 2021 there were sections of the code that were not changed with the understanding that they would be reviewed and updated at a later date. Jaramillo stated that the BZO Committee will begin working on getting these updated.

Adjourn

Wright/Vlach motion to adjourn at 7:29pm. Unanimously carried.

/s/ Lori Peternell, Village Treasurer

These are not official minutes until approved by the BZO Committee

ORDINANCE #2023 - 03
AN ORDINANCE AMENDING SECTION 238-1A. OF THE CODE OF ORDINANCES
OF THE VILLAGE OF WILLIAMS BAY CONCERNING CURFEW HOURS

WHEREAS, the Building Zoning and Ordinance Committee of the Village of Williams Bay having recommended to the Village Board that Section 238-1A. of the Code of Ordinances be amended to adjust the curfew hours for minors on weekends to begin at 12:01 a.m., in place of the current 11:00 p.m. in effect for the remaining nights of the week; and

WHEREAS, the Village Board of the Village of Williams Bay having determined that is appropriate to accept the recommendation of the Building, Zoning and Ordinance Committee to so adjust the curfew hours for minors on weekends to begin at 12:01 a.m., from the current 11:00 p.m. currently in effect on weekends.

NOW, THEREFORE, the Village Board of the Village of Williams Bay do hereby ordain as follows:

Section I. Section 238-1A. of the code of Ordinances of the Village of Williams Bay is hereby amended to read as follows:

No minor person under the age of 18 years of age shall loiter, idle, wander or play, either on foot or in a vehicle of any nature whatsoever, upon the streets, alleys, highways, roads, sidewalks, parks, playgrounds, public grounds, vacant lots, or other unsupervised places in the Village between the hours of 11:00 p.m. and 6:00 a.m. of the following day on any Sunday, Monday, Tuesday, Wednesday or Thursday, and between the hours of 12:01 a.m. and 6:00 a.m. on any Saturday or Sunday unless accompanied by a parent or guardian, or other adult person having care and custody of the minor; provided, however, that this section shall not apply to minors while they are returning home from functions authorized by the governing body of any public or parochial school or church in the Village, and while such is being made by the shortest and most direct route and as fast as is reasonably possible under the circumstances. This section shall not apply to minors returning home from work, provided that any such minor shall be returning home by the shortest and most direct route and as fast as is reasonably possible under the circumstances.

Section II. This ordinance shall take effect upon passage and publication as provided by law.

Approved by the Village Board of the Village of Williams Bay this _____ day of _____, 2023.

VILLAGE OF WILLIAMS BAY

By: _____
William Duncan, President

Attest: _____
Tina Kolls, Clerk

First Reading: _____
Second Reading: _____
Date Adopted: _____
Date Published: _____

Section VII. Aquatic Plants and Invasive Animals.

(a) - Purpose

The purpose of this ordinance is to prevent the spread of aquatic invasive species in Geneva Lake and surrounding water bodies.

(b) - Definitions

1. The following words, terms, and phrases, when used in this article shall have the meanings described to them in this section. The words, terms, and phrases defined shall apply to this section only.
2. *Animal* - means all vertebrate and invertebrate species including but not limited to mammals, birds, reptiles, amphibians, fish, and shellfish, or their eggs, larvae, or young, but exclude humans.
3. *Aquatic Animal* - means all animals that live in, on, or near the water. This includes all vertebrate and invertebrate species, including but not limited to reptiles, amphibians, fish, and shell fish, or their eggs, larvae or young.
4. *Invasive Species* - has been previously defined under Wis. Stat. § 23.22(1)(c), and Wis. Adm. § NR 40.02(24) and the definition is hereby adopted under this code.
5. *Aquatic Invasive Species* - has been previously defined under Wis. Adm. § NR 40.02(3m) and the definition is hereby adopted under this code.
6. *Aquatic Plant* - means a nonwoody submerging, emergent, free-floating, or floating leave plant that normally grows in or near water and includes any part thereof. Any permits issued under Wis. Adm. Code § NR 19.09 shall be exempt from this definition.
7. *Decontamination* - is the process of removing Aquatic Invasive Species as defined in (5) or materials that may contain or transmit any type of invasive species by disinfection or other methods.
8. *Portable Boat Cleaning Station* - is a device provided at public or private lake access to remove all potential invasive species.

(c) - Prohibition Against the Transport of Plants and Aquatic Animals.

1. No person may operate a vehicle, or transport any boat, personal watercraft, canoe, kayak, paddle board or associated trailer, or boating equipment, fishing equipment, hunting and/or trapping equipment from navigable waters onto a public highway if aquatic plants, or aquatic animals are attached. All aquatic

plants and aquatic animals shall be removed prior to entry onto a public highway or launching a boat or placing equipment or trailers into navigable waters.

2. When available, an operator or owner of a vehicle, boat, personal watercraft, canoe, kayak, paddle board, or associated trailer shall use at public or private access, the person shall decontaminate the boat per the posted instructions on the Portable Boat Cleaning Station.
3. This section shall not apply to bait used on that particular body of water in accordance with the Department of Natural Resources, or applicable Wisconsin Administrative Codes.

(d) – Enforcement

1. Any County or Municipality Law Enforcement Officer shall have authority to issue a citation pursuant to Wis. Stat. §66.0113(1)(a).
2. All forfeitures shall be collected and retained by the enforcing agency.
3. An offense shall be considered by each instance of violation, not by each vehicle or equipment subject to this ordinance.

Walworth County reference— General penalty, § 1-12; statutory misdemeanors and forfeitures adopted, § 14 Citations, § 38-1; sheriff, ch. 46; excavation regulations enforced by citation, § 54-43; cash deposits for violation of the excavation regulations, § 54-45; issuance of citations, §§ 54-46, 54-98.

State Law reference— Citation system, Wis. Stats. § 66.0113

Section X. Penalties.

6. Any person who violates Section VII of the Joint Uniform Lake Law Ordinances shall be subject to a forfeiture plus court costs as follows:
 - (a) For the first offense, a forfeiture shall be \$100, plus costs
 - (b) For a second offense, a forfeiture shall be \$175, plus costs.
 - (c) For a third and subsequent offense, a forfeiture shall be \$250, plus costs.

Village of Williams Bay, WI
Monday, April 10, 2023

Chapter 345. Vehicles and Traffic

§ 345-4. Parking restrictions.

A. Restrictions.

- (1) Boat launch parking. No person shall park or leave standing a vehicle or trailer in the boat launch parking lot in a manner that is contrary to the restrictions that the Village Board may impose on the parking of vehicles and trailers and which are listed on the official signs that are posted in that parking lot by the Village of Williams Bay.
- (2) Penalty for violation of § **345-4A(1)** shall be as follows: the penalty provisions of this Code of Ordinances, § **1-4** herein, shall apply except for a violation of § **345-4A(1)** a minimum forfeiture of \$25.

B. Walworth Avenue parking. No person shall park a vehicle on Walworth Avenue between Geneva Street and Cherry Street except at an angle on the east side of the street and parallel to the west side of the street between the marked lines. Parking on Walworth Avenue between Geneva Street and Cherry Street shall be limited to not more than one hour in duration and shall be marked by official "one-hour parking zone" signs.

C. Other regulations.

- (1) Parking meters. When any vehicle is parked in a parking meter zone, the vehicle operator shall deposit or cause to be deposited a coin of the denomination indicated and put such meter in operation. Failure to deposit such coin and put the meter in operation is prohibited.
- (2) One- or two-hour zones. When signs have been erected upon any street indicating that stopping, standing and parking is limited to one hour, limited to two hours or is prohibited during designated hours as specified thereon, no person shall park any vehicle on such street in violation of any such signs.
- (3) Double parking. No operator of any vehicle shall stop, stand or double park in a roadway other than parallel with the edge of curb of the roadway headed in the direction of lawful traffic movement.
- (4) Blocking alley. No operator of any vehicle shall stop, stand or park such vehicle within an alley in such position as to block the driveway or entrance to any abutting property.
- (5) Blocking driveway. No operator of any vehicle shall stop, stand or park at any place where the standing of any vehicle will block the use of any driveway.
- (6) Wrong side of street. No person shall stand or park a vehicle in a roadway other than parallel with the edge of curb of the roadway headed in the direction of lawful traffic movement.
- (7) Winter night parking restrictions. No person shall park, stop or leave standing any vehicle on any Village street between 2:00 a.m. and 6:00 a.m. from November 15 of each year to April 15 of the following year. Signs shall be erected at or reasonably near the corporate Village limits as provided in § 349.13, Wis. Stats., advising of the existence of this subsection. Permission for parking for guests of residents may be granted by the Police Department on a per-night basis for not more than 14 consecutive days for any one person or vehicle. Such permission

may be granted by the Police Department upon a phone notification for not more than three days. If request is made for permission to park for more than three days, applicant shall complete an appropriate application at the Police Department for such purpose.

- (8) Parking during snow emergencies. Whenever the Chief of Police shall, by reason of heavy snow storm or blizzard, proclaim a snow emergency pursuant to § 323.11, Wis. Stats., no person shall park, stop or leave standing any vehicle upon the streets or any portions of the streets during the hours as set forth in the proclamation.
- (9) Fire hydrant. No operator of any vehicle shall stop, stand or park such vehicle at any curb within 10 feet of a fire hydrant.
[Amended at time of adoption of Code (see Ch. 1, General Provisions, Art. II)]
- (10) No-parking zone. No operator of any vehicle shall stop, stand or park at any place where official signs have been erected indicating a no-parking zone.
- (11) Improper parking. No person shall park any vehicle upon a street in such manner or under such conditions as to leave available less than 18 feet of the width of the roadway for free movement of vehicular traffic on a two-way street or less than 10 feet of the width of the roadway for free movement of vehicular traffic on a one-way street.
- (12) Yellow line. No operator of any vehicle shall stop, stand or park in any area along the curbing that has been striped yellow.
- (13) Official signs. No person shall park a vehicle contrary to the notice specified on such sign.
- (14) Parking on crosswalk or intersection. No operator of any vehicle shall stop, stand or park within 15 feet of a crosswalk or intersection, except in a roadway marked with lines designating parking spaces.
- (15) Parking at or opposite fire station. No operator of any vehicle shall stop, stand or park such vehicle at any place within 20 feet of the entrance to any fire station, and on the side of any lot opposite the entrance to any fire station within 75 feet of such entrance.
- (16) Parking on sidewalk. No operator of any vehicle shall stop, stand or park such vehicle on any sidewalk.
- (17) Parking in private parking lot. No person not so entitled shall park a vehicle in a private parking lot unless authorized by order of the custodian.
- (18) Parking in public parking lot. No person shall park a vehicle upon any property owned by a company or the Village and used for the transaction of public business where such parking is prohibited by order of the custodian of such property.
- (19) Parking obstructing traffic. The operator of a vehicle shall not operate such vehicle to allow the same to remain upon any street in such a manner as to form an unreasonable obstruction to the traffic thereon.
- (20) Handicapped parking. Except for a motor vehicle used by a physically disabled person as defined under § 346.503(1), Wis. Stats., no person may park, stop or leave standing any vehicle, whether attended or unattended and whether temporarily or otherwise, upon any portion of a street, highway or parking facility reserved, by official traffic signs indicating the restriction, for vehicles displaying special registration plates issued under § 341.14(1), (1a), (1e), (1m) or (1q), Wis. Stats., or a special identification card issued under § 343.51, Wis. Stats., or vehicles registered in another jurisdiction and displaying a registration plate, card or emblem issued by the other jurisdiction which designates the vehicle as a vehicle used by a physically disabled person. The penalty provisions of this Code, § 1-4 herein, shall apply, except the minimum forfeiture upon conviction of this § **345-4C(20)** shall be \$150 and the maximum forfeiture shall be \$300, together with cost of prosecution.
[Amended at time of adoption of Code (see Ch. 1, General Provisions, Art. II)]

- (21) Semi-tractor, trailer parking. Semitrailers, tractor semitrailers or truck tractors, as defined in § 340.01, Wis. Stats., shall not park on any Village street, except that such vehicles may park on the street for the purpose of loading or unloading and only during such time while actively engaged in loading or unloading the vehicle.
- (22) Payment of municipal fees required. No person shall park or leave standing any vehicle on any street or public parking area belonging to or leased by the Village after having obtained a municipal benefit or a municipal service without first paying the required fee for the use or benefit thereof. The owner of a vehicle involved in a violation of this subsection shall be liable for a violation hereof subject to the defenses to the owner defined and described in § 346.485(5)(b), Wis. Stats. This subsection shall be enforced using the nonmoving traffic violation procedure set forth in § 345.28, Wis. Stats., with the forfeiture to be \$55 for a violation of this subsection.
- (23) Terrace or parkway. No person shall park, stop or leave standing any vehicle or trailer on any Village terrace or parkway where curb and gutter are installed. "Terrace or parkway" is defined as the area between the curb and the sidewalk or, if sidewalk is not installed, the area between the curb and the abutting property line.
- (24) Street maintenance.
 - (a) Whenever it is necessary to maintain, repair or restore a Village street or highway or any part thereof, the Chief of Police shall post appropriate signs bearing the words "No Parking - Street Maintenance Work."
 - (b) Such signs shall be erected at least two hours prior to the time street or highway maintenance, repair or restoration work is to be commenced and shall remain in place until all maintenance, repair or restoration work is completed. The street or highway shall include the berm, shoulder, terrace and all areas within the public right-of-way involved in the maintenance, repair or restoration of the street or highway. No person shall park a motor vehicle in violation of such signs.
- (25) Resident parking lots. No person shall park a vehicle in a parking lot or other parking area marked by official signs indicating that lot or parking area is restricted for use by residents vehicles properly displaying resident parking permits. Resident parking permits shall be affixed to the vehicle for which they are issued in the manner prescribed by the Village at the time of issuance.
- (26) Extended parking of trailers prohibited. No person shall park, stop, or leave standing a trailer as defined by § 340.01(71), Wis. Stats., on any Village street for a period of time in excess of 24 hours.
- D. Parking permitted along Collie Street adjacent to school. Parking in designated parking spots along the west side of Collie Street is permitted during the hours of 7:30 a.m. to 4:30 p.m. during school days from the intersection of Hickory Street north to a point 139 feet south of the intersection of Collie Street and Congress Street.
- E. Removal of illegally parked vehicles.
 - (1) Hazard to public safety. Any vehicle parked, stopped or standing in violation of any of the provisions of this chapter is declared to be a hazard to traffic and public safety.
 - (2) Removal by operator. Such vehicle shall be removed by the operator in charge, upon request of any traffic officer, to a position where parking is permitted or to a private or public parking or storage premises.
 - (3) Removal by traffic officer. Any traffic officer, after issuing a citation for illegal parking, stopping or standing of an unattended vehicle in violation of this chapter, is authorized to remove such vehicle to a position where parking is permitted.

- (4) Removal by private services. The officer may order a motor carrier holding a permit to perform vehicle towing services, a licensed motor vehicle salvage dealer or a licensed motor vehicle dealer who performs vehicle towing services to remove and store such vehicle in any public storage garage or rental parking grounds or any facility of the person providing the towing services.
 - (5) Towing and storage charges. In addition to other penalties provided by this chapter, the owner or operator of a vehicle so removed shall pay the actual cost of moving, towing and storage. If the vehicle is towed by the Police Department, a charge as set forth on a schedule of charges established by the Village Board shall be paid for such towing. If the vehicle is towed or stored by a private motor carrier, motor vehicle salvage dealer or licensed motor vehicle dealer, actual charges regularly paid for such services shall be paid. If the vehicle is stored in a public storage garage or rental facility, customary charges for such storage shall be paid. Upon payment, a receipt shall be issued to the owner of the vehicle for the towing or storage charge.
- F. Registration record of vehicle as evidence. When any vehicle is found in violation of any provision of this chapter regulating the stopping, standing or parking of vehicles and the identity of the operator cannot be determined, the owner as shown by the ownership registration of the vehicle supplied by the Wisconsin Department of Transportation, or a comparable authority of any other state, shall be deemed to have committed the violation for purposes of enforcement of this chapter and shall be subject to the applicable forfeiture penalty; provided, the defenses defined and described in § 346.485(5)(b), Wis. Stats., shall be a defense for an owner charged with such violation.
- G. Removal of parking citations prohibited. No person, other than the owner or operator thereof, shall remove a parking violation or citation from a motor vehicle.