Attached is the agenda packet for the April 3, 2023 Board Meeting. For those of you with Drop Box, the file will be placed in the Drop Box Folder.

The Village Board meeting will begin at 7:00 PM. With the new Village Board meeting format, all discussions and business will occur at the Village Board meeting. After consideration of the meeting minutes and accounts payable, the meeting will proceed to new and old business.

Please contact the Mayor if you have any questions or if you wish to attend the meeting electronically.

James McDonald, Mayor Mary Konrad, Clerk Stacy Michael, Treasurer



Trustees:
Allena Barbato
Jake Cramond
Karen Harms
Jeff Nielsen
Tom O'Reilly
Doug Savell

VILLAGE BOARD MEETING

April 3, 2023

7:00 pm

- 1. Call to Order & Roll Call
- 2. Pledge of Allegiance
- 3. Public Comment
- 4. Approval of the Minutes
 - a. March 20, 2023 Regular Village Board Meeting
- 5. Accounts Payable April 3, 2023
- 6. Mayor
- 7. Village Board Reports
- 8. Staff Reports
- 9. Old Business
 - a. <u>Ordinance 2023-04-01:</u> An Ordinance Granting Preliminary Approval for the Starling Senior Apartment Development at 0 Deep Lake Rd.

10. New Business

- a. <u>Resolution No: 2023-04-01</u>: A Resolution Designating Signatories on Depository Accounts of the Villa of Lake Villa.
- b. <u>Discussion:</u> Bee City USA
- c. <u>Resolution No. 2023-04-02</u>: A Resolution Supporting and Committing Local Funds for a ComEd Green Region Grant Application
- d. Discussion: IDOT Land Bridge updates
- e. Discussion and Approval: FY23/24 Budget updates
- 11. Executive Session
- 12. Adjournment

65 Cedar Avenue P.O. BOX 519 Lake Villa, Illinois 60046 (847) 356-6100 www.lake-villa.org

James McDonald, Mayor Mary Konrad, Clerk Stacy Michael, Treasurer



Trustees:
Allena Barbato
Jake Cramond
Karen Harms
Jeff Nielsen
Tom O'Reilly
Doug Savell

DATE: March 14, 2023

TO: Village Board of Trustees

FROM: Michael Strong

Village Administrator

RE: Agenda Transmittal

Old Business

a. Ordinance 2023-04-01: An Ordinance Granting Preliminary Approval for the Starling Senior Apartment Development at 0 Deep Lake Rd.

Staff Contact: Michael Strong, Village Administrator

The Village Board is scheduled to continue its deliberation relative to an Ordinance granting preliminary approval for a proposed senior apartment development located at 0 Deep Lake Road, an approximate 5 acre parcel, located in the Lake Tower Crossing Development. The matter was tabled by the Village Board during their regular meeting on March 20, 2023.

The Developer, Lincoln Avenue Capital, LLC., is seeking rezoning of the property to the Village's UR-4 Zoning District and approval of an amendment to an existing Conditional Use Permit for the Lake Tower Crossing Phase 3 Planned Development that was approved via Ordinance 2020-07-07. Such amendment would permit a Residential Planned Development for Elderly Housing and to permit the Developer to construct a forty (40) unit senior apartment development which would be agerestricted to persons 55 years of age and older with a mix of one-bedroom and two-bedroom units. Pursuant to the Village Code, the Village Board may approve the Plan Commission's recommendation and adopt the Ordinance, approve with additional conditions, deny the request, and/or remand the matter back to the Plan Commission to further investigate specific matters relative to the development.

<u>Suggested Motion</u>: Motion to approve Ordinance 2023-04-01 Granting Preliminary Approval for the Proposed Starling Senior Apartment Development at 0 Deep Lake Road

65 Cedar Avenue P.O. BOX 519 Lake Villa, Illinois 60046 (847) 356-6100 www.lake-villa.org

New Business

a. Resolution No: 2023-04-03: A Resolution Designating Signatories on Depository Accounts of the Villa of Lake Villa.

Staff Contact: Michael Strong, Village Administrator

The Village Board will discuss and consider approving a resolution amending the signatories for the Village. With the departure of the Village's Administrative Services Director, the Village needs to update the designated signatories for checks and other financial documents. The Resolution would amend the existing signatories by removing the Administrative Services Director from those authorized.

<u>Suggested Motion</u>: Motion to approve Resolution 2023-04-03 A Resolution Designating Signatories on Depository Accounts of the Village of Lake Villa.

b. <u>Discussion:</u> Bee City USA

Staff Contact: Michael Strong, Village Administrator

The Village Board will hear a presentation from Joe Gannon, a local resident, who recently met with Village staff regarding the Xerces Society for Invertebrate Conservation "Bee City USA" program. This is a national program aimed at expanding and conserving pollinators and native planting habitats to promote ecosystem vitality for invertebrates. Mr. Gannon has galvanized local support for the program, and will present to the Village Board to discuss the program. Additional information relative to Mr. Gannon's proposal is included in the agenda packet.

<u>Suggested Motion</u>: No formal action is requested, item is scheduled for discussion purposes only. However, Direction will be sought on whether the Village should pursue a formal commitment with the Xerces Society for Invertebrate Conservation.

c. Resolution No. 2023-04-04: A Resolution Supporting and Committing to Funding Local Funds for a ComEd Green Region Grant Application

Staff Contact: Michael Strong, Village Administrator

In accordance with direction provided during the Budget Workshop on March 13, Village staff has submitted a grant opportunity to expand plantings adjacent to the Cedar Crossing tot lot park. The proposed project would include the installation of an approximate 600 square foot pollinator garden located along the entryway into the park. The garden would include various species of pollinators and other

flowering plants along with educational signage educating residents about pollinators and the public about their importance and relevance to supporting the regional ecosystem. A copy of the scope of work and aerial showing the area for plantings is included in the agenda packet. The grant would cover up to 50% of the proposed cost, or \$5,000 based on estimates provided by the Village's contractor. A commitment for funding is required if the Village receives the grant. The Village anticipates grant awardees will be notified sometime in July.

<u>Suggested Motion</u>: Motion to Approve a Resolution Supporting and Committing to Funding Local Funds for a ComEd Green Region Grant Application

d. <u>Discussion:</u> IDOT Land Bridge update

Staff Contact: Michael Strong, Village Administrator and Robert Doeringsfield, Village Engineer

Village Staff is scheduled to brief the Village Board on the status of IDOT's Land Bridge project, an approximately \$9,000,000 IDOT project that will extend between McKinley Avenue to Cleveland Avenue. The Project is tentatively scheduled to start later this spring, pending utility relocation work that is necessary to accommodate the work. Robert Doeringsfield, Village Engineer, has been participating in preconstruction meetings and will provide an overview of the project to the Village Board. Additionally, staff will present our plans for ongoing communication and participation in meetings so that residents can stay informed on the status of this project.

<u>Suggested Motion</u>: No formal action is requested, item is scheduled for discussion purposes only.

e. <u>Discussion & Approval:</u> FY23/24 Budget updates

Staff Contact: Stacy Michael, Administrative Services Director

Village Staff will be providing updates relative to the proposed FY2023/2024 Budget. Amendments will be presented based on feedback provided by the Village Board during their Budget Workshop. New worksheets have been provided in the agenda packet and will be discussed further during the meeting. Direction will be sought on finalizing the budget, so that it can be prepared for formal Village Board adoption during the meeting on April 17, 2023.

Suggested Motion: Motion to Approve Operating and Capital Budget for FY23/24.

VILLAGE OF LAKE VILLA VILLAGE BOARD REGULAR MEETING March 20th, 2023

Call to Order: Mayor McDonald called the meeting to order at 7:00 p.m.

Present: Mayor McDonald, Clerk Konrad, Trustees: Harms, Nielsen, Barbato, O'Reilly,

Cramond and Savell, Village Administrator Michael Strong, Treasurer Stacy Michael, Police Chief Rochelle Tisiani, Public Works Supervisors Ryan Horton and Village

Attorney Rebecca Alexopolus.

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0 ABSENT: 0 ABSTAIN: 0

MOTION CARRIED

Public Comment: A resident raised the issue of parking on McKinley which the resident states creates

limited parking. A resident raised issue of the residential development to be located at

0 Deep Lake, preferring different zoning.

Minutes: It was moved by Trustee Nielsen and seconded by Trustee Barbato to approve the

March 6th, 2023 Village Board meeting minutes.

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0
ABSENT: 0

ABSTAIN: 0 MOTION CARRIED

It was moved by Trustee Harms and seconded by Trustee Savell to approve the March 13th, 2023 Village Board Budget Workshop minutes.

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0 ABSENT: 0 ABSTAIN: 0

BSTAIN: 0 MOTION CARRIED

Finance: It was moved by Trustee O'Reilly and seconded by Trustee Barbato to approve the

Accounts Payable Report for March 20th, 2023 in the amount of \$238,778.44

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0

ABSENT: 0 ABSTAIN: 0

MOTION CARRIED

Mayor:

The St. Patrick's Day Parade held on March 11th was a success with amount of people attending and serving 275 Corn Beef and Cabbage at the VFW. The Easter Egg Hunt will be held April 1st, 2023.

Staff Reports:

Trustee Barbato spoke on behalf of a resident, with a home based business seeking to expand which is in conflict with current ordinances. Trustee Barbato requested review of these ordinances to possibly address the issue.

Public Works supervisor, Ryan Horton, advised he is working with the Police Department in preparing an Emergency Management Response Plan to be presented later.

Chief of Police, Rochelle Tisinai, advised that they are applying for a grant that, if awarded, would be used for purchase of a 2nd radar sign. Officer Dryer has successfully completed certification as the Certified Training Instructor, allowing to train multiple facets of law enforcement.

The Village Administrator advised that the Village will be applying for an Open Lands Grant to cover the costs of a Pollinator Garden.

New Business:

Resolution No. 2023-03-01: A Resolution to Induce the Redevelopment of Certain Property within a TIF District (201 Park Avenue)

The Village Board conferred on the approval of a Resolution declaring the Village's intention to fund a proposed redevelopment project using Tax Increment Financing (TIF) funds from the Village's Downtown TIF Fund. The redevelopment project is related to the acquisition of the property located at 201 Park Avenue and renovation of the space to accommodate a manufacturing business that is seeking to relocate to Lake Villa. The Village and the developer would enter into a formal Redevelopment Agreement that would lays out the amount of TIF Funds eligible for reimbursement, and under what conditions and terms such financing would be reimbursed to the developer.

It was moved by Trustee Harms and seconded by Trustee Savell to approve Resolution 2023-03-01 A Resolution inducing the Redevelopment of Certain Property located within a TIF District

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0 ABSENT: 0 ABSTAIN: 0

MOTION CARRIED

Ordinance No. 2023-03-03: An Ordinance Granting Preliminary Approval for the Proposed Starling Senior Apartment Development at 0 Deep Lake Rd.

The Village Board conferred on the approval of an Ordinance granting

preliminary approval to a proposed senior apartment development located at 0 Deep Lake Road, an approximate 5-acre parcel located in the Lake Tower Crossing Development. The Developer, Lincoln Avenue Capital, LLC., is seeking rezoning of the property to would permit a Residential Planned Development for Elderly Housing and to permit the Developer to construct a forty (40) unit senior apartment development which would be age-restricted to persons 55 years of age and older with a mix of one-bedroom and two-bedroom units. The Plan Commission held a Public Hearing on January 19, 2023 recommended approval of the Petitioner's application. The Village Code allows the Village Board to approve the Plan Commission's recommendation and adopt the Ordinance, approve with additional conditions, deny the request, and/or remand the matter back to the Plan Commission to further investigate specific matters relative to the development.

It was moved by Trustee O'Reilly and seconded by Trustee Nielsen to approve Ordinance 2023-03-03 Granting Preliminary Approval for the Proposed Starling Senior Apartment Development at 0 Deep Lake Road

ROLL CALL VOTE WAS:

AYES: 1(Savell)

NAYS: 3 (Nielsen, O'Reilly, Cramond)

ABSENT: 0

ABSTAIN: 2 (Harms, Barbato) MOTION DID NOT CARRY

It was moved by Trustee Barbato and seconded by Trustee O'Reilly to table Ordinance 2023-03-03 until April 3rd, 2023 to allow matters concerning adjacent properties.

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0 ABSENT: 0 ABSTAIN: 0

MOTION CARRIED

Authorization to Purchase a Ford F550 from LaFontaine Ford (Birch Run, MI)

The Village Board conferred on the approval to purchase a replacement public works vehicle included in the FY2023 Fleet Replacement Fund budget. The Village obtained competitive pricing from multiple sources relative to a Ford 550 which will replace a 5-yard Dump Truck that is currently used for snow plowing, material hauling, and other public works functions.

It was moved by Trustee Nielsen and seconded by Trustee Harms to authorize the purchase of a Ford F550 from LaFontaine Ford, of Birch Run, Michigan, in an amount not to exceed \$121,847, plus a 5% contingency in the amount of \$6,092 for unforeseen or unanticipated vehicle acquisition costs.

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0 ABSENT: 0 ABSTAIN: 0

MOTION CARRIED

Ordinance No. 2023-03-04: Disposal of Surplus Property

The Village Board conferred on whether to recommend approval of an Ordinance disposing of surplus Village property. In reviewing items for disposal, various used equipment and vehicles that have been identified as beyond useful life and deemed appropriate for disposal.

It was moved by Trustee Harms and seconded by Trustee O'Reilly to approve Ordinance 2023-03-04 Authorizing the Sale of Surplus Property Owned by the Village of Lake Villa.

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0

ABSENT: 0

ABSTAIN: 0 MOTION CARRIED

Resolution No. 2023-03-02: Opposing IDNR Lake Michigan Water Allocation Review Fee.

During the March 6, 2023, Village Board meeting, a Resolution was proposed Water Allocation Review Fee that the Illinois Department of Natural Resources (IDNR) is proposing to enact for allocation for Lake Michigan water. To receive Lake Michigan Water, communities must be permitted a specific quantity, or allocation, of water dedicated to them for their use. The allocation is determined based on a calculation of the number and types of expected users with a population growth factor applied. IDNR is now proposing possible legislation that would impose a "review fee" of up to \$5,000 from all Lake Michigan water allocation permittees. The fee would be graduated based upon the volume of water granted to an agency in a given year. This proposed legislation would affect approximately 125 municipalities as well as other water agencies like CLCJAWA. In response to the proposed legislation, CLCJAWA has prepared a resolution for its membership to object to the imposition of the fee. Therefore, the Village Board conferred on a resolution opposing the proposed IDNR fee.

It was moved by Trustee O'Reilly and seconded by Trustee Cramond to approve Resolution 2023-03-02 Opposing the Proposed IDNR Lake Michigan Water Allocation Review Fee.

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0 ABSENT: 0 ABSTAIN: 0

MOTION CARRIED

Ordinance 2020-03-05: Abating a Portion of the Amount of Taxes Levied for General Obligation Refunding Bonds

The Village Board conferred on the approval of an Ordinance abating the property tax dedicated as an alternative revenue to the Village's 2015 series water bonds. Annually, the Village is required to abate the property taxes dedicated as an alternative revenue source for the Village's 2015 series water bonds. The Ordinance states that the Village met its financial obligations to pay the bonds; therefore, the property taxes dedicated as an alternative revenue source can be abated.

It was moved by Trustee Nielsen and seconded by Trustee Barbato to approve Ordinance 2023-03-05 Abating a Portion of Taxes Levied for General Obligation Refunding Bonds

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0

ABSENT: 0

ABSTAIN: 0 MOTION CARRIED

Old Business: Discussion: NIMEC Electric Aggregation Program

During the regular meeting on March 6, 2023, the Village Board authorized the Mayor has executed a 14-month Power Supply Agreement with MC Squared Energy Services, LLC (Chicago, IL) that secures a fixed rate of 7.45 cents per kilowatt-hour for residents and small businesses in Lake Villa. This compares to ComEd's current rate of 9.665 cents per kilowatt-hour.

Execution of the Agreement will restart the Village's Municipal Electric Aggregation Program beginning in June 2023. Village Staff provided an overview and schedule for the aggregation program during the meeting on March 20.

It was moved by Trustee Barbato and seconded by Trustee Harms to Ratify an Executed Power Supply Agreement with MC Squared Energy Services, LLC. For a 14-month term the Village's Municipal Electricity Aggregation Program

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0 ABSENT: 0 ABSTAIN: 0

MOTION CARRIED

Executive Session:

It was moved by Trustee Harms and seconded by Trustee Savell to go into executive session at 8:15pm for personnel and land acquisition.

ROLL CALL VOTE WAS:

AYES: 6 (Harms, Nielsen, Barbato, O'Reilly, Cramond, Savell)

NAYS: 0 ABSENT: 0 ABSTAIN: 0

MOTION CARRIED

Adjournment:	It was moved by Trustee Nie	elsen and seconded by	Trustee Harms to a	djourn at 8:53pm.
APPROVED BY	ME THISApril,	, 2023		
JAMES MC	CDONALD, MAYOR			
MARY KON	NRAD, CLERK			

03/30/2023 03:50 PM User: CDENZEL

DB: Lake Villa

CUSTOM INVOICE REPORT FOR VILLAGE OF LAKE VILLA

EXP CHECK RUN DATES 03/21/2023 - 04/03/2023 BOTH JOURNALIZED AND UNJOURNALIZED Page: 1/10

BOTH OPEN AND PAID

INVOIC	Ε
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INVOICE NUMBER	DESCRIPTION	TUOMA
	ENERGY AEP ENERGY	
BANK CODE: 40208		
	LITE RT/25 683 BLAZING STER DR	49.74
03302023-3984	0 IL83 TFLT RT/25	33.30
TOTAL BA	NK CODE: 40208	83.04
TOTAL VE	INDOR AEP ENERGY AEP ENERGY	83.04
VENDOR CODE: AFL BANK CODE: 40208		
887305	AFLAC	2,370.65
TOTAL BA	NK CODE: 40208	2,370.65
TOTAL VE	NDOR AFLAC AFLAC	2,370.65
VENDOR CODE: ANT	AUT ANTIOCH AUTO PARTS	
BANK CODE: 40208		
276717	CREDIT/ BILLED OVER QUOTED PRICE	(18.00)
276671	TURN X-LARGE ROTOR	39.00
280060	TRUCK # 13	283.63
280079	TRUCK # 13/ ALTERNATOR	283.63
280093	HYDRAULIC OIL/ OIL CAN	89.16
TOTAL BA	NK CODE: 40208	677.42
TOTAL VE	NDOR ANTAUT ANTIOCH AUTO PARTS	677.42
VENDOR CODE: BAD BANK CODE: 40208	GLO BADGER GLOVE & SAFETY, INC.	
054053	UNIFORM ALLOWANCE- DAN/ GLOVES- PW- SAF	151.00
TOTAL BA	NK CODE: 40208	151.00
TOTAL VE	NDOR BADGLO BADGER GLOVE & SAFETY, INC.	151.00
	PRE BILLER PRESS & MFG., INC.	
BANK CODE: 40208 BP-8728	CITATION COMPLAINT FORMS	1,373.90
TOTAL BA	NK CODE: 40208	1,373.90
TOTAL VE	NDOR BILPRE BILLER PRESS & MFG., INC.	1,373.90
	ICRO BLUE CROSS/BLUE SHIELD	,
BANK CODE: 40208		
03302023	BCBS MARCH 2023 COVERAGE	43,022.72
TOTAL BA	NK CODE: 40208	43,022.72
TOTAL VE	NDOR BLUCRO BLUE CROSS/BLUE SHIELD	43,022.72

VENDOR CODE: BUREQU BURRIS EQUIPMENT CO.

BANK CODE: 40208

03/30/2023 03:50 PM User: CDENZEL

DB: Lake Villa

CUSTOM INVOICE REPORT FOR VILLAGE OF LAKE VILLA EXP CHECK RUN DATES 03/21/2023 - 04/03/2023

BOTH JOURNALIZED AND UNJOURNALIZED

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INVOIC	Ε
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NUMBER	DESCRIPTION	AMOUNT
VENDOR CODE: BUI	REQU BURRIS EQUIPMENT CO.	
BANK CODE: 4020	8	
PS2010565-1	KUBOTA	52.94
PS2010453-1	PLUG KIT/ WASHER/ AXLE OIL	59.25
TOTAL B	ANK CODE: 40208	112.19
TOTAL V	ENDOR BUREQU BURRIS EQUIPMENT CO.	112.19
VENDOR CODE: CAS BANK CODE: 4020		
03302023-AWC	WINDOW CLEANING - MARCH 2023	21.00
03092023	NSWWA LUNCH	50.00
02242023	VILLAGE HALL PLANTS	13.87
03142023	ST. PATRICK'S DAY LUNCHEON	6.83
03132023	ST. PATRICK'S DAY LUNCHEON	14.46
TOTAL BA	ANK CODE: 40208	106.16
TOTAL V	ENDOR CASH CASH	106.16
VENDOR CODE: CLA	ADAV CLARENCE DAVIDS & CO	
PROP-23-000052		193.05
PROP-23-000052	DEPOSIT ANNUAL FLOWER PROPASAL - VILLAGE DEPOSIT ANNUAL FLOWER PROPASAL - LEHMANN	742.50
PROP-23-000051	DEPOSIT ANNUAL FLOWER PROPOSAL- LEHMANN :	507.54
TOTAL B	ANK CODE: 40208	1,443.09
TOTAL V	ENDOR CLADAV CLARENCE DAVIDS & CO	1,443.09
VENDOR CODE: COI	MED COMED	
BANK CODE: 4020		
		40.40
03302023-3203	TFLT, METERED 0 RT 83	49.40
03302023-4047	222 OAK KNOLL DR UNIT A	2,309.72
TOTAL B	ANK CODE: 40208	2,359.12
TOTAL V	ENDOR COMED COMED	2,359.12
VENDOR CODE: COI BANK CODE: 4020	NFS CONSERV FS, INC. 8	
102025247	596.3 GAL DIESEL	2,235.54
102025248	397.7 GAL UNL GAS	1,337.86
TOTAL BA	ANK CODE: 40208	3,573.40
TOTAL V	ENDOR CONFS CONSERV FS, INC.	3,573.40
	RMAI CORE & MAIN LP	
BANK CODE: 40208 \$531003	8 METER REPLACEMENT	1,488.00
TOTAL B	ANK CODE: 40208	1,488.00

03/30/2023 03:50 PM

User: CDENZEL

DB: Lake Villa

CUSTOM INVOICE REPORT FOR VILLAGE OF LAKE VILLA EXP CHECK RUN DATES 03/21/2023 - 04/03/2023

BOTH JOURNALIZED AND UNJOURNALIZED

Page: 3/10

INVOICE

INVOICE NUMBER	DESCRIPTION	AMOUNT
VENDOR CODE: CORM	MAI CORE & MAIN LP	
TOTAL VEN	IDOR CORMAI CORE & MAIN LP	1,488.00
VENDOR CODE: DATI BANK CODE: 40208	NT DATA INTEGRATORS, INC.	
23094	NEWSLETTER/ UTILITY BILLING MARCH 2023	407.95
TOTAL BAN	IK CODE: 40208	407.95
TOTAL VEN	DOR DATINT DATA INTEGRATORS, INC.	407.95
VENDOR CODE: DEKC BANK CODE: 40208	OM DEKIND COMPUTER CONSULTANTS	
35558	OFFICE 365	2,953.00
TOTAL BAN	IK CODE: 40208	2,953.00
TOTAL VEN	IDOR DEKCOM DEKIND COMPUTER CONSULTANTS	2,953.00
VENDOR CODE: DYNE BANK CODE: 40208	NE DYNEGY ENERGY SERVICES	
306942723031	ELECTRIC SUPPLIER -MARCH 2023	8,975.04
TOTAL BAN	IK CODE: 40208	8,975.04
TOTAL VEN	DOR DYNENE DYNEGY ENERGY SERVICES	8,975.04
VENDOR CODE: ELYP BANK CODE: 40208	PRO ELYTE PRODUCTIONS	
E05702	ST. PATRICK'S DAY	1,526.28
TOTAL BAN	IK CODE: 40208	1,526.28
TOTAL VEN	IDOR ELYPRO ELYTE PRODUCTIONS	1,526.28
VENDOR CODE: EMPB BANK CODE: 40208	SENCOR EMPLOYEE BENEFITS CORPORATION	
3973597	FSA MEDICAL EXCESS INVOICE	851.95
3967435 3950060	BEST FLEX PLAN/ COBRA SECURE FSA	120.00 623.34
TOTAL BAN	IK CODE: 40208	1,595.29
TOTAL VEN	DOR EMPBENCOR EMPLOYEE BENEFITS CORPORATIO	1,595.29
VENDOR CODE: FACM BANK CODE: 40208	MOTPAR FACTORY MOTOR PARTS CO.	
162-139747	RETURN 12 VOLT/ TRUCK # 5	(27.27
50-4436685	SQUAD # 271	148.00
162-139749	TRUCK # 13	(143.98)
162-139748 63-429250	TRUCK # 15/ SEMI LOADED BRAKE CALIPER TRUCK # 15- GAS A JUST SHOCK	(201.60) 137.66
50-4417518	TRUCK # 15- GAS A 0031 SHOCK TRUCK # 15- STEERING STABILIZER	48.62
162-139095	TRUCK # 15- BRAKE LINING KIT	528.85
162-139845	SQUAD # 271	547.44

03/30/2023 03:50 PM User: CDENZEL

DB: Lake Villa

CUSTOM INVOICE REPORT FOR VILLAGE OF LAKE VILLA EXP CHECK RUN DATES 03/21/2023 - 04/03/2023

BOTH JOURNALIZED AND UNJOURNALIZED

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NUMBER	DESCRIPTION	AMOUNT
	ACMOTPAR FACTORY MOTOR PARTS CO.	
BANK CODE: 4020 162-139911	08 TRUCK # 13	303.63
		1,341.35
TOTAL I	BANK CODE: 40208	1,341.33
TOTAL V	VENDOR FACMOTPAR FACTORY MOTOR PARTS CO.	1,341.35
VENDOR CODE: GO BANK CODE: 4020	OVHR GOVHR USA, LLC 08	
1-03-23-182 1-03-23-183	RECRUITMENT FEE- 1ST PYMT- ASSISTANT TO RECRUITMENT FEE- 1ST PYMT- FINANCE DIREC	4,750.00 4,750.00
TOTAL F	BANK CODE: 40208	9,500.00
/ JATOT	VENDOR GOVHR GOVHR USA, LLC	9,500.00
VENDOR CODE: GR BANK CODE: 4020	RAINGER GRAINGER	
9645907651	PARKS SUPPLIES- TRASH BAGS	96.18
TOTAL F	BANK CODE: 40208	96.18
TOTAL V	VENDOR GRAINGER GRAINGER	96.18
	ACOP ILLINOIS ASSOC OF CHIEFS OF POLICE	
BANK CODE: 4020 13082	2023 ILACP ANNUAL CONF	329.00
TOTAL E	BANK CODE: 40208	329.00
/ JATOT	VENDOR IACOP ILLINOIS ASSOC OF CHIEFS OF POLI	329.00
VENDOR CODE: ICBANK CODE: 4020		
	PAY PERIOD 03/04-03/17/2023	276.00
TOTAL E	BANK CODE: 40208	276.00
TOTAL V	VENDOR ICOPS	276.00
VENDOR CODE: II BANK CODE: 4020	LSECSTA ILLINOIS SECRETARY OF STATE	
AF11007	KIA PLATE RENEWAL	151.00
TOTAL E	BANK CODE: 40208	151.00
/ JATOT	VENDOR ILSECSTA ILLINOIS SECRETARY OF STATE	151.00
VENDOR CODE: JABANK CODE: 4020	ACFRO JACK FROST IRON WORKS INC	
13668	REPAIR PLOW	760.00
TOTAL E	BANK CODE: 40208	760.00

03/30/2023 03:50 PM

User: CDENZEL

DB: Lake Villa

CUSTOM INVOICE REPORT FOR VILLAGE OF LAKE VILLA EXP CHECK RUN DATES 03/21/2023 - 04/03/2023

BOTH JOURNALIZED AND UNJOURNALIZED

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INVOICE

NUMBER DESCRIPTION	F	INUOMA
VENDOR CODE: JACFRO JACK FROST IRON WORKS IN	NC	
TOTAL VENDOR JACFRO JACK FROST IRON	WORKS INC 76	60.00
VENDOR CODE: JGUNI J.G. UNIFORMS BANK CODE: 40208		
111676 UNIFORM ALLOWANCE- ESTEBA	IN GOMEZ 29	94.40
TOTAL BANK CODE: 40208	29	94.40
TOTAL VENDOR JGUNI J.G. UNIFORMS	29	94.40
VENDOR CODE: JIM BOWLES JIM BOWLES BANK CODE: 40208		
03202023-SHELL TRAINING/ TRAVEL- JIM BOW 03302023 TRAINING/ TRAVEL- JIM BOW		53.03 35.16
TOTAL BANK CODE: 40208	38	88.19
TOTAL VENDOR JIM BOWLES JIM BOWLES	38	88.19
VENDOR CODE: KIMMID KIMBALL MIDWEST BANK CODE: 40208		
100864797 SHOP SUPPLIES 100864479 SHOP SUPPLIES		20.99 45.01
TOTAL BANK CODE: 40208	66	66.00
TOTAL VENDOR KIMMID KIMBALL MIDWEST	66	66.00
VENDOR CODE: LAFONFOR LAFONTAINE FORD OF BIR	RCH RUN	
BANK CODE: 40208 03232023 2022 FORD SUPER DUTY	121,84	47.00
TOTAL BANK CODE: 40208	121,84	47.00
TOTAL VENDOR LAFONFOR LAFONTAINE FOR	RD OF BIRCH RUN 121,84	47.00
VENDOR CODE: LAKINT LAKESIDE INTERNATIONAL TBANK CODE: 40208	PRUCKS	
2303099P TRUCK # 6 2303100P TRUCK # 6		97.04 99.65
TOTAL BANK CODE: 40208	19	96.69
TOTAL VENDOR LAKINT LAKESIDE INTERNA	ATIONAL TRUCKS	96.69
VENDOR CODE: LCMUNLEA LAKE COUNTY MUNICIPAL BANK CODE: 40208	LEAGUE	
03272023 2023-2024 LCML DUES	1,08	85.67
TOTAL BANK CODE: 40208	1,08	85.67
TOTAL VENDOR LCMUNLEA LAKE COUNTY MU	JNICIPAL LEAGUE 1,08	85.67

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CUSTOM INVOICE REPORT FOR VILLAGE OF LAKE VILLA

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NUMBER	DESCRIPTION	AMOUNT
	LCTREAS LAKE COUNTY TREASURER	
BANK CODE: 40		
280207945	FEBRUARY 2023 BUILDING SERVICES	2,818.60
430033657	SIGN SHOP -FEB 2023	86.40
TOTAL	BANK CODE: 40208	2,905.00
TOTAL	VENDOR LCTREAS LAKE COUNTY TREASURER	2,905.00
VENDOR CODE: BANK CODE: 40	LKCNTRBL LAKE COUNTY TREASURER	
110001014	DATA CONVERSION- REIMB TYLER TECHN INV#	11.50
110000974	DATA CONVERSION- REIMB TYER TECHN INV# 1	722.26
TOTAL	BANK CODE: 40208	733.76
TOTAL	. VENDOR LKCNTRBL LAKE COUNTY TREASURER	733.76
	LVPOL LAKE VILLA POLICE PENSION FUND	
BANK CODE: 40		
LVPOL 0323202	PAY PERIOD 03/04-03/17/2023	5,960.37
TOTAL	BANK CODE: 40208	5,960.37
TOTAL	. VENDOR LVPOL LAKE VILLA POLICE PENSION FUND	5,960.37
	MAGIC MAGIC DAVE	
BANK CODE: 40 090923	RETAINER FEE FOR COF BALLOON ART	100.00
TOTAL	BANK CODE: 40208	100.00
TOTAL	VENDOR MAGIC MAGIC DAVE	100.00
VENDOR CODE:	MENANT MENARDS - ANTIOCH	
BANK CODE: 40	1208	
26148	RETURN FROM INVOICE 25971	(20.20)
26149	SHOP SUPPLIES	60.03
25931	SHOP SUPPLIES- LADDER	237.97
25930	SHOP SUPPLIES	63.92
25853	PARKS SUPPLIES	48.30
25938	SHOP SUPPLIES/ STREET SUPPLIES	78.05
25810	SHOP SUPPLIES	26.57
25971	SHOP # 2 SUPPLIES	50.16
26202	SHOP SUPPLIES - SOLAR RAIL LIGHT	11.19
26094 26150	SHOP SUPPLIES- SANDING BELTS FENCE REPAIR/ WATER SUPPLIES WELL 8/9	17.98 18.37
TOTAL	BANK CODE: 40208	592.34
поплт	VENDOD MENANT MENADOS _ ANTITOCH	592.34
TOTAL VENDOR MENANT MENARDS - ANTIOCH VENDOR CODE: MIDAGR MIDWEST AGGREGATES		592.34
BANK CODE: 40		
1852639	COLD MIX UPM	534.60

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NUMBER DESCRIPTION	AMOUN
VENDOR CODE: MIDAGR MIDWEST AGGREGATES	
BANK CODE: 40208	
TOTAL BANK CODE: 40208	534.60
TOTAL VENDOR MIDAGR MIDWEST AGGREGATES	534.60
VENDOR CODE: MUNFLEMANA MUNICIPAL FLEET MANAGERS ASSOCIATIO BANK CODE: 40208	
03302023 MUNICIPAL MANAGER MEMBERSHIP	50.00
TOTAL BANK CODE: 40208	50.00
TOTAL VENDOR MUNFLEMANA MUNICIPAL FLEET MANAGERS AS	50.00
VENDOR CODE: NACO NACO RETIREMENT SOLUTIONS BANK CODE: 40208	
NACO 03232023 PAY PERIOD 03/04-03/17/23	2,725.38
TOTAL BANK CODE: 40208	2,725.38
TOTAL VENDOR NACO NACO RETIREMENT SOLUTIONS	2,725.38
VENDOR CODE: NEMRT NORTH EAST MULTI-REGIONAL BANK CODE: 40208	
322148 TRAINING/ TRAVEL -ZACHARY BECH/ KURTIS K	100.00
TOTAL BANK CODE: 40208	100.00
TOTAL VENDOR NEMRT NORTH EAST MULTI-REGIONAL	100.00
VENDOR CODE: NICOR NICOR GAS BANK CODE: 40208	
	0.38
	3.56
03232023-8978	0.28
03232023-3343	2.60
03292023-96935 485 N MILWAUKEE/ MANSION	15,087.95
TOTAL BANK CODE: 40208	15,094.77
TOTAL VENDOR NICOR NICOR GAS	15,094.77
VENDOR CODE: PITBOW PITNEY BOWES GLOBAL FINANCIAL SERVI BANK CODE: 40208	
1022740521 RED INK	182.58
TOTAL BANK CODE: 40208	182.58
TOTAL VENDOR PITBOW PITNEY BOWES GLOBAL FINANCIAL S	182.58
VENDOR CODE: PLAILL PLAY ILLINOIS, LLC BANK CODE: 40208	
1571 CEDAR CROSSING PARK	5,820.60

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CUSTOM INVOICE REPORT FOR VILLAGE OF LAKE VILLA

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INVOICE NUMBER	DESCRIPTION	AMOUNT
	PLAILL PLAY ILLINOIS, LLC	
BANK CODE: 402	208 BANK CODE: 40208	5,820.60
101111	21m (6022 . 10200	3,020.00
TOTAL	VENDOR PLAILL PLAY ILLINOIS, LLC	5,820.60
	POMPS POMP'S TIRE SERVICE	
BANK CODE: 402		410.00
2100003418 2100003788	TRUCK # 20 KUBOTA	410.00 460.00
290241547	SQUAD # 292	870.92
ТОТАТ	BANK CODE: 40208	1,740.92
101111	2 00221 10200	1,710.32
TOTAL	VENDOR POMP'S TIRE SERVICE	1,740.92
VENDOR CODE: H	RACK'MUP RACK 'M UP	
BANK CODE: 402		360.00
32049	SERVICE CALL OUT -LIFT INSPECTION	
TOTAL	BANK CODE: 40208	360.00
TOTAL	VENDOR RACK'MUP RACK 'M UP	360.00
VENDOR CODE: 1	ROGSHO ROGAN SHOES, INC.	
280225	UNIFORM ALLOWANCE- JIM BOWLES	140.25
TOTAL	BANK CODE: 40208	140.25
TOTAL	VENDOR ROGSHO ROGAN SHOES, INC.	140.25
VENDOR CODE: SBANK CODE: 402	SAFARI SAFARILAND, LLC	
	UNIFORM ALLOWANCE- JAMES DECARO	179.00
TOTAL	BANK CODE: 40208	179.00
TOTAL	VENDOR SAFARI SAFARILAND, LLC	179.00
	STREICH STREICHER'S	
BANK CODE: 402		
I1622100 I1621755	UNIFORM ALLOWANCE- ESTEBAN GOMEZ BEAN BAGS	109.00 632.00
TOTAL	BANK CODE: 40208	741.00
TOTAL	VENDOR STREICH STREICHER'S	741.00
VENDOR CODE: 5	TECAME TECHSTAR AMERICA CORPORATION	
46020	YRLY CONTRACT RATE FOR 4/29/2023- 4/27/2	2,099.25
TOTAL	BANK CODE: 40208	2,099.25

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NUMBER	DESCRIPTION	AMOUNT
VENDOR CODE:	TECAME TECHSTAR AMERICA CORPORATION	
TOTAL	L VENDOR TECAME TECHSTAR AMERICA CORPORATION	2,099.25
	TESASS TESKA ASSOCIATES, INC.	
BANK CODE: 40 13041	J208 STARLING SENIOR- DEVELOPMENT REVIEW/ PL	930.00
13041	SSSA MAPPING	2,595.00
TOTAI	L BANK CODE: 40208	3,525.00
TOTAL	L VENDOR TESASS TESKA ASSOCIATES, INC.	3,525.00
	THEPRIFAC THE PRINTING FACTORY	
BANK CODE: 40 31521	BUDGET TABS	362.00
TOTAI	L BANK CODE: 40208	362.00
TOTAI	L VENDOR THEPRIFAC THE PRINTING FACTORY	362.00
VENDOR CODE: BANK CODE: 40	THESTA STANDARD INSURANCE COMPANY RC	
03152023	APRIL 2023 VISION INSURANCE	105.55
03152023 03302023	MARCH 2023 DENTAL INSURANCE LIFE INSURANCE APRIL 2023	2,487.69 1,077.70
	L BANK CODE: 40208	3,670.94
Ψ∩πΔτ	L VENDOR THESTA STANDARD INSURANCE COMPANY RC	3,670.94
	THOELE THOMPSON ELEVATOR	3,070.34
BANK CODE: 40		
23-0834 23-0815	INSPECTION- SANCTUARY COMM HOUSE 4 ELEVATOR CODE INSPECTIONS/ CERTIFICATE	41.00 192.00
'I'O'I'AI	L BANK CODE: 40208	233.00
TOTAI	L VENDOR THOELE THOMPSON ELEVATOR	233.00
	ULINE ULINE, INC.	
BANK CODE: 40 161378781	PARK SUPPLIES- DOG WASTE BAGS	102.67
TOTAL	L BANK CODE: 40208	102.67
TOTAI	L VENDOR ULINE ULINE, INC.	102.67
VENDOR CODE: BANK CODE: 40	USABLU USA BLUE BOOK 1208	
288341	WELL HOUSE CHEMICAL CONVERSION	116.52
TOTAI	L BANK CODE: 40208	116.52
TOTAL	L VENDOR USABLU USA BLUE BOOK	116.52

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NUMBER	DESCRIPTION	AMOUNT
VENDOR CODE:	WARDIR WAREHOUSE DIRECT	
BANK CODE: 40	208	
5460236-0	OFFICE SUPPLIES- FASH DRIVE/ HILIGHTER/	131.50
5458545-0	OFFICE SUPPLIES- TISSUE	58.99
5454954-0	OFFICE SUPPLIES- PAPER	153.71
5453028-1	OFFICE SUPPLIES- FLASH DRIVE	101.90
TOTAL BANK CODE: 40208		446.10
TOTAL	VENDOR WARDIR WAREHOUSE DIRECT	446.10
GRAND TOTAL:		257,665.78

VILLAGE OF LAKE VILLA

ORDINANCE NO. 2023-04-01

AN ORDINANCE GRANTING PRELIMINARY APPROVAL
FOR A REQUEST FOR REZONING AND
FOR AN AMENDMENT TO AN EXISTING CONDITIONAL USE PERMIT
FOR A PLANNED DEVELOPMENT PREVIOUSLY GRANTED BY
VILLAGE OF LAKE VILLA ORDINANCE NO. 2020-07-07
FOR THE LAKE TOWER CROSSING PHASE 3 PLANNED DEVELOPMENT
AND A CONDITIONAL USE PERMIT FOR THE PROPOSED
STARLING SENIOR APARTMENTS PLANNED DEVELOPMENT

(RE: Petition of Lincoln Avenue Capital, LLC - 0 Deep Lake Road, Lake Villa, IL)

ADOPTED BY THE CORPORATE AUTHORITIES OF THE VILLAGE OF LAKE VILLA, ILLINOIS THIS 3rd DAY OF APRIL, 2023.

Published in pamphlet form by authority of the Corporate Authorities of the Village of Lake Villa, Lake County, Illinois, this 3rd day of April, 2023.

AN ORDINANCE GRANTING PRELIMINARY APPROVAL
FOR A REQUEST FOR REZONING AND
FOR AN AMENDMENT TO AN EXISTING CONDITIONAL USE PERMIT
FOR A PLANNED DEVELOPMENT PREVIOUSLY GRANTED BY
VILLAGE OF LAKE VILLA ORDINANCE NO. 2020-07-07
FOR THE LAKE TOWER CROSSING PHASE 3 PLANNED DEVELOPMENT
AND A CONDITIONAL USE PERMIT FOR THE PROPOSED
STARLING SENIOR APARTMENTS PLANNED DEVELOPMENT

(RE: Petition of Lincoln Avenue Capital, LLC - 0 Deep Lake Road, Lake Villa, IL)

WHEREAS, the Village of Lake Villa (the "Village") has received an application from the Petitioner, Lincoln Avenue Capital, LLC or its assigns (hereinafter referred to as the "Petitioner"), the contract purchaser of the property commonly known as 0 Deep Lake Road, Lake Villa, IL which is identified as P.I.N. 02-28-201-178 (the "Property") requesting rezoning of the Property to the Village's UR-4 Zoning District and approval of an amendment to an existing Conditional Use Permit for a Planned Development previously granted by Village of Lake Villa Ordinance No. 2020-07-07 for the Lake Tower Crossing Phase 3 Planned Development and a Conditional Use Permit for a Residential Planned Development for Elderly Housing and to permit the Petitioner to construct a forty (40) unit senior apartment development which shall be age-restricted to persons 55 years of age and older, with a mix of one-bedroom and two-bedroom apartments on the Property, as well as other related and/or required improvements which include but are not limited to water mains, sanitary sewers, storm sewers, storm water management facilities, parking, lighting, landscaping, and off-site sidewalks (hereinafter sometimes collectively referred to as the "Development"); and

WHEREAS, the Property consists of approximately 5.208 acres of vacant land located generally on the west side of Deep Lake Road and south of both Grass Lake Road and Tower

Drive in the Village of Lake Villa which is presently zoned and classified as part of the Village's SB (Suburban Business) Zoning District, within the corporate limits of the Village; and

WHEREAS, the Property is legally described as follows:

LOT A IN LAKE TOWER CROSSING PLANNED UNIT DEVELOPMENT PHASE 2, BEING A RESUBDIVISION OF PART OF SECTION 28, TOWNSHIP 46 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN LAKE COUNTY, ILLINOIS ACCORDING TO THE PLAT THEREOF RECORDED MAY 1, 2008 AS DOCUMENT NUMBER 6340408, IN THE VILLAGE OF LAKE VILLA, LAKE COUNTY, ILLINOIS.

WHEREAS, the Village of Lake Villa, Illinois, pursuant to the applicable Illinois statutes, has adopted Zoning Regulations as set forth in Chapter 10 of the Lake Villa Village Code, as amended from time to time (the "Zoning Regulations") and certain subdivision regulations as set forth in Chapter 11 of the Lake Villa Village Code, as amended from time to time (the "Subdivision Regulations") to regulate, among other things, land use and development within the Village; and

WHEREAS, Title 10, "Zoning Regulations", and Title 11, "Subdivision Regulations", of the Lake Villa Village Code provide regulations for the planning, review, and approval of conditional use permits for planned unit developments ("PUDs") within the Village; and

WHEREAS, the Petitioner has proceeded through the preliminary approval phase for rezoning of the Property from the Village's SB (Suburban Business) Zoning District to the Village's UR-4 Zoning District (the "Application") and for a Conditional Use Permit for the establishment of an Elderly Housing development as permitted in the UR-4 Zoning District on property which currently is located within and is part of the Lake Tower Crossing Phase 3 Planned Development, and has also applied to the Village for amendments to the existing Conditional Use for the Lake Tower Crossing Phase 3 Planned Development which was previously authorized by Village of Lake Villa Ordinance No. 2020-07-07 in order to establish said Development; and

WHEREAS, commencing on January 19, 2023 and concluding on February 21, 2023, the Village's Plan Commission, pursuant to proper notice, did conduct a public hearing on the Petitioner's Application; and

WHEREAS, at the conclusion of such public hearing, the Plan Commission did recommend approval of the Petitioner's Application based upon certain findings of fact and subject to certain conditions as follows:

I. <u>FINDINGS OF FACT</u>:

1. The Property consists of approximately 5.208 acres, more or less, is located within the corporate limits of the Village of Lake Villa, is commonly known as 0 Deep Lake Road, Lake Villa, IL (Permanent Index Number 02-28-201-178) and is generally located on the west side of Deep Lake Road and south of both Grass Lake Road and Tower Drive in the Village of Lake Villa and is legally described as follows:

LOT A IN LAKE TOWER CROSSING PLANNED UNIT DEVELOPMENT PHASE 2, BEING A RESUBDIVISION OF PART OF SECTION 28, TOWNSHIP 46 NORTH, RANGE 10 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN LAKE COUNTY, ILLINOIS ACCORDING TO THE PLAT THEREOF RECORDED MAY 1, 2008 AS DOCUMENT NUMBER 6340408, IN THE VILLAGE OF LAKE VILLA, LAKE COUNTY, ILLINOIS.

- 2. The Property is presently zoned and classified as part of the Village's SB (Suburban Business) Zoning District, subject to the Lake Tower Crossing Phase 3 Planned Development. The Petitioner is also requesting rezoning to the UR-4 Zoning District to permit the construction, operation and maintenance of one three (3) story building consisting of senior apartment dwelling units, not exceeding forty (40) units in a single building, having a mix of one- or two-bedroom apartments intended for persons 55 years of age and older and other related improvements, including parking, lighting, landscaping, and storm water management facilities which would be in lieu of the 91 apartments previously authorized by the aforesaid Ordinance No. 2020-07-07, which senior apartments proposal will also require a modification of the phasing requirements set forth in Section 4(P) of Ordinance No. 2020-07-07 (collectively referred to as the "Development").
- 3. The proposed amendments to the Conditional Use Permit previously approved for the Property by Ordinance No. 2020-07-07 (the "existing Conditional Use Permit") and the New Conditional Use Permit requested by the Petitioner to authorize the Development:
 - (a) are consistent with the particular physical surroundings of the Property, the mixed uses on properties in the general vicinity thereof, and the present zoning of the Property, and that the granting of certain relief from the Village's Zoning Regulations will not be detrimental to the public welfare or injurious to other property owners in the vicinity of the Property;

- (b) are consistent with the general purpose and intent of the Lake Villa Zoning Regulations;
- (c) are consistent with the Village's Comprehensive Plan;
- (d) are designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity;
- (e) will not significantly diminish the safety, use and enjoyment of surrounding property;
- (f) will be adequately served by essential public facilities and services such as streets, police and fire service, drainage, refuse disposal, and schools, or such services will be provided by the Petitioner at the Petitioner's sole expense;
- (g) do not create excessive additional requirements at public expense for public facilities and service and will not be detrimental to the economic welfare of the community;
- (h) do not involve uses, activities, processes, materials, equipment and conditions of operation that will be detrimental to any persons, property, or the general welfare by reason of excessive production of traffic, noise, smoke, fumes, glare or odors;
- (i) will provide vehicular access to the Property designed so that such use does not create any interference with traffic on surrounding public thoroughfares;
- (j) will not result in the destruction, loss, or damage of a natural, scenic, or historic feature of major importance;
- (k) will comply with all additional regulations in this Ordinance specific to the Conditional Use Permit requested.
- (l) will be consistent with the existing zoning of and with the existing uses of nearby properties;
- (m) will not diminish property values by the particular zoning restrictions at issue or by granting of the proposed New Conditional Use;
- (n) will not diminish property values and will promote the general health, safety, and welfare;
- (o) will provide a gain to the public as a result of the establishment of the proposed New Conditional Use for a senior apartment building, and there will be no hardship imposed upon the Petitioner;
- (p) will satisfy a community need for the uses which are the subject of the New Conditional Use Permit requested by the Petitioner;
- (q) will be consistent with the intent and purpose of the Lake Villa Zoning Regulations;

- (r) will be generally compatible with the character of the UR-4 Zoning District and the neighborhood in which it will be located;
- (s) will preserve the value of the surrounding residential area and will be compatible with surrounding land uses;
- (t) The Property is suitable for the Development;
- (u) The Village has undertaken its planning and land use regulations with great care;
- (v) The Property contains no topographical, environmentally sensitive, or historical features which require preservation;
- 4. The proposed amendments to the existing Conditional Use Permit as provided by Village of Lake Villa Ordinance No. 2020-07-07 and the New Conditional Use Permit for Elderly Housing would authorize the establishment, operation, and maintenance of a planned development for Elderly Housing in the nature of one 3-story apartment building consisting of not more than forty (40) senior apartment dwelling units in a single building, pursuant to the Village's Zoning Regulations in the UR4 Zoning District to which District the Property will be rezoned and re-classified, and the Village has hereby determined that the proposed Development is compatible with other uses permitted in the UR4 Zoning District;
- 5. The proposed Development is consistent with the stated purpose of the planned development regulations set forth in the Village's Zoning Regulations and the proposed preliminary plan meets the requirements and standards for planned developments.
- 6. The proposed preliminary plan for this planned development indicates that the New Conditional Use will produce a public benefit meeting the planning objectives and standards of the Village.
- 7. The design of the proposed preliminary plan makes adequate provision for public services, provides adequate control over vehicular traffic, provides for and protects areas for common open space and other amenities.
- 8. The proposed Development will be compatible with and beneficial to the adjacent properties and to the neighborhood, and the proposed Development is a desirable addition to the Village's available housing options, tax base and economic well being.
- 9. In reviewing requests for Conditional Uses, the following standards were reviewed and considered pursuant to the Village's Zoning Code:
 - (a) <u>Location</u>: The site shall be so situated that the proposed use is compatible with the existing or planned future development in the area.
 - The Plan Commission found that the proposed Development is located along an arterial with compatible commercial development to the north and residential development to the west.

- (b) Zoning District Requirements: All regulations of the zone in which a conditional use is located shall apply to such uses, except where specifically amended by the conditions under which the conditional use permit is granted.
 - The Plan Commission found that zoning variances may be provided through the adoption of the conditional use for a planned development.
- (c) <u>Lot Area</u>: A conditional use shall be located on a lot or a zoning lot which conforms to the applicable zone regulations, unless the lot area requirement is specified in this section.
 - The Plan Commission found that the proposed Development is in compliance with minimum requirements of the UR4 Zoning District.
- 10. In evaluating a Planned Development, the Plan Commission considered the degree to which that development varies from underlying zoning standards of the district in which it will be located, and also considered benefits of the development such as the following (summary of Lake Villa Zoning Ordinance Section 9-1-2):
 - (a) The proposed Development will provide a number of off-site connected sidewalks for use by both residents of the Development and other residents of the Village; or
 - (b) The amount of landscaping is substantially greater than the minimum required by the Village Code; or
 - (c) With the new building elevation, the proposed Development has substantially greater architectural amenities; or
 - (d) Other extraordinary site amenities, including the community garden and a dog-run area.

The Plan Commission found that the proposed Development exceeds the amount of landscaping that is required by providing two of the standards:

- (i) The proposed Development provides a number of connected off-site sidewalks for use by residents of the Development and for use by Village residents; and
- (ii) The proposed Development exceeds landscape requirements by providing common open space, a community garden and dog run.
- 11. The Plan Commission also considered: (a) the degree to which the Development exhibits extra care and attention to details in excess of Village requirements which enhance the character of the Development, (b) the degree to which any requested increase in density reflects an investment in better design, landscaping, or facilities, and (c) the degree to which the developer has gone to better preserve critical natural environments, restore or mitigate degraded or distressed environments, alleviated off-site problems, and/or provided other improvements.

The Plan Commission found that the proposed Development will provide moderate-density senior apartments which are needed in the community, as well as additional open space, in the form of a number of off-site connected sidewalks, community garden and dog run, a sidewalk along Deep Lake Road, and also exceeds requirements for parking and accessible parking spaces.

The proposed Development is located along an easily accessible arterial, complements the commercial development to the north, and serves as a buffer to residential development to the west.

The wet bottom detention basin shall be designed with native wetland vegetation to enhance the natural environment and the abutting wetland to the south.

- II. <u>CONDITIONS OF PRELIMINARY APPROVAL</u>: The Plan Commission of the Village recommended that the Petitioner be granted preliminary approval, subject to the following conditions:
- 1. Prior to commencement of construction:
 - (a) The Petitioner shall construct or pay for the construction of all stormwater management, sanitary sewer, water system improvements required for the Development, all in accordance with the final engineering approved by the Village Administrator and post a letter of credit as a performance guarantee for all required onsite and off-site improvements required for the Development, other than for the senior apartment building itself.
 - (b) The Petitioner shall pay all required developer school and park impact fees prior to the commencement of construction and transition impact fees as provided by Section 8-5-2 of the Lake Villa Village Code prior to the Village's issuance of the building permit for the Development.
 - (c) The Petitioner shall secure in writing all permits and approvals from the Village, from the IEPA, from CLCJAWA, from Fox Lake and Lake County Public Works, for sewer, water and storm sewer service for the Development.
 - (d) The Petitioner shall provide evidence satisfactory to the Village's consultant that adequate water, sanitary sewer and stormwater storage capacity has been reserved to serve the balance of the Lake Tower Crossing Planned Development.
 - (e) The Petitioner shall secure in writing all permits and approvals from the Lake County Division of Transportation for all access, road improvements, or other transportation infrastructure required for the Development.
 - (f) The Petitioner shall file with the Village Treasurer an irrevocable letter of credit approved by the Village Attorneys and in an amount approved by the Village Administrator as a performance guarantee for all required on-site and off-site improvements for the Development, other than for the senior apartment building itself.
- 2. Within six (6) months of the Petitioner's acquisition of the development site, the Village shall establish a back-up Special Service Area for the Development with a maximum SSA special tax rate not to exceed .10%. The Petitioner's maintenance obligations for the Development will be secured by the back-up Special Service Area and shall be subject to a 30-day notice and cure period for the following maintenance and other purposes:
 - (a) Infrastructure, including but not limited to streets, water and sanitary sewer services, sidewalks, trails, and landscaping. This does not include any water mains and sanitary sewer mains which will be dedicated to and maintained by the Village.
 - (b) Maintenance of common areas and amenities.
 - (c) Snow removal and ice control within the Development.
 - (d) Payment of any unpaid water and sewer bills.

The Village will not levy any special taxes to fund said back-up Special Service Area so long as the Petitioner complies in a timely manner with all of its maintenance obligations for the Development.

- 3. Prior to the issuance of any temporary or final Certificate of Occupancy for the Development, the Petitioner shall provide to the Village "as built" final plans showing the precise location of all improvements to the Property, including all buildings, utilities, streets, sidewalks, detention or retention ponds and drainage swales, dog run and community garden.
- 4. The Final Plat for the Development shall include the dedication of an easement over, under, across, and through designated portions of the Property for the purpose of maintenance and reconstruction by the Village of any water and sewer mains to be dedicated to the Village, if any, at such times and in such circumstances as the Village deems expedient, but the Village shall have the right but not the obligations to perform any of such work. The Village shall also have such a blanket easement over the Property, but not the obligation to perform such maintenance as it deems necessary through such a Special Service Area.
- 5. During both the construction and operation of the Development, the Petitioner shall, at its expense, comply with all of the consultation recommendations of the Illinois Department of Natural Resources relative to Blanding's Turtles, King Rail and Least Bittern.
- 6. The following submittals are the subject of this recommendation for preliminary PUD approval:
 - (a) Preliminary Landscape Plan Set dated 02/06/23 by Manhard Consulting;
 - (b) Photometric Plan dated 02/06/23 by Manhard Consulting;
 - (c) Revised Preliminary Engineering Plan Set dated 02/06/23 by Manhard Consulting;
 - (d) Stormwater Brochure dated 02/06/23 by Manhard Consulting:
 - (e) Wetland Report dated 02/06/23 by Gary R. Webber Associated, Inc.;
 - (f) Revised Elevation and Floorplans dated 02/16/23 by North Arrow Architecture;
 - (g) IDNR Consultation EcoCat Review #2306326 dated November 14, 2022
- 7. At the Plan Commission hearing on the Petitioner's Application, the Petitioner submitted the following the major revisions:
 - (a) Site Plan Changes and Modifications: The Petitioner has submitted revised preliminary engineering plans and a revised plat that modifies the site plan for the Development which includes, among other things, reducing the size of the building footprint, increasing setbacks from the property lines, relocating the refuse container enclosure to the East side of the senior apartment building and designating the western access road to the parking lot as for emergency vehicular access only.
 - (b) Stormwater Management: The Petitioner has submitted revisions to its preliminary stormwater management report and engineering plans which include the installation of a CDS© Water Quality Structure (Hydrodynamic separator) that will be installed in the outfall pipe adjacent to the parking lot, the purpose of which structure will be to remove garbage, debris, hydrocarbons and other sediment from the stormwater runoff that flows into the on-site detention basin which will be constructed on the Property. This

- outfall pipe will now discharge into a level spreader to discharge the stormwater toward the Painted Lakes detention basin.
- (c) Landscape/Tree Preservation: The Petitioner has proposed to preserve additional existing trees on the Property. Additionally, a greater amount of buffer yard shrubs have been proposed by the Petitioner to be planted on the west side of the Development to provide greater landscaping buffering between the Development and the adjacent residential townhome development. Lastly, the Petitioner has removed Round-Up from its specifications for plant material installation, and a more environmentally-friendly alternative, AquaPro Aquatic Herbicide, is now proposed for site preparation and planting preparation purposes.
- (d) Architectural Elevations: The Petitioner has submitted a new architectural elevation and details for the proposed senior apartment building. Pursuant to direction provided by the Plan Commission, new architectural details to the Building's roofline are now being proposed, including an asphalt shingle mansard roof, face brick along the lower level of the Building, and cementitious fiber lap siding on the second and third floors.
- 8. An accurate elevation of the profile of the north side of the senior apartment building shall be presented to the Plan Commission and reviewed as part of Final P.U.D. approval.
- 9. The sidewalk proposed by the Petitioner to be located in the public right-of-way of Deep Lake Road shall be extended approximately 100 more feet to the south so it extends along the entire boundary of the Property along Deep Lake Road.
- 10. The Plan Commission has recommended that the Conditional Use for this Development and the rezoning of the Property to the UR4 Zoning District should both automatically terminate unless the Petitioner commences construction of the Development within four (4) years after Final P.U.D. approval, but this date should be able to be extended by the Corporate Authorities of the Village by a separate ordinance at their sole discretion.
- 11. An exception from Section 10-2-2 (Definition of "Elderly Housing") of the Village of Lake Villa Zoning Regulations should be granted to the Petitioner by the Ordinance providing for final PUD approval for the Development to allow these senior apartments to be agerestricted, but for persons of 55 years of age and older, notwithstanding the fact that the Zoning Regulations would otherwise require Elderly Housing to be age-restricted to persons 62 years of age and older.

WHEREAS, subject to the terms and conditions hereinafter set forth, the Mayor and Board of Trustees of the Village have determined that it is in the best interests of the Village and its residents to grant preliminary (i.e., conceptual and tentative) approval of the Petitioner's Application for the Property in accordance with the Zoning Ordinance of the Village and the other applicable ordinances of the Village:

NOW, THEREFORE, BE IT ORDAINED by the Mayor and Board of Trustees of the Village of Lake Villa, Lake County, Illinois, as follows:

<u>SECTION 1</u>: The Corporate Authorities of the Village find that the facts stated in the preamble of this Ordinance are true and correct and the same are incorporated into the text of this Ordinance as findings of fact to the same extent as if each had been set forth in its entirety herein.

SECTION 2: The Mayor and Board of Trustees of the Village of Lake Villa hereby accept and tentatively and conceptually approve the Recommendation and Findings of Fact of the Lake Villa Plan Commission dated February 21, 2023, which are hereby incorporated herein by reference.

SECTION 3: Preliminary Approval of Petitioner's Application: Subject to the terms and conditions of this Ordinance, as well as the conditions and limitations in the Zoning Regulations and/or Subdivision Regulations of the Village, the Mayor and Board of Trustees hereby tentatively and conceptually approve the Petitioner's Application for Rezoning to the UR-4 Zoning District, for amendments to the existing Conditional Use Permit, as amended, as provided by Village of Lake Villa Ordinance No. 2020-07-07, and for Preliminary Approval of a Conditional Use for an Elderly Housing Planned Unit Development which consists of the following revised preliminary exhibits, copies of which are attached hereto as Group Exhibit A and thereby made a part hereof:

- (a) Preliminary Landscape Plan Set dated 02/06/23 by Manhard Consulting;
- (b) Photometric Plan dated 02/06/23 by Manhard Consulting;
- (c) Revised Preliminary Engineering Plan Set dated 02/06/23 by Manhard Consulting;
- (d) Stormwater Brochure dated 02/06/23 by Manhard Consulting;
- (e) Wetland Report dated 02/06/23 by Gary R. Webber Associated, Inc.;
- (f) Revised Elevation and Floorplans dated 02/16/23 by North Arrow Architecture;
- (g) IDNR Consultation EcoCat Review #2306326 dated November 14, 2022

Notwithstanding anything shown on or implied by the above preliminary exhibits, no variation, exception or waiver shall be approved or implied by this Ordinance or by the Ordinance which may grant final PUD approval, unless such variation(s), exception(s), or waiver(s) are each specifically and expressly stated in writing in one or both of such ordinances. Any approval of

preliminary exhibits for the purposes of this Ordinance, and/or by the Ordinance hereafter providing for final PUD approval, and/or by any amendments thereto shall not constitute approval of said plans for any other purposes under the Lake Villa Village Code, the Lake Villa Zoning Regulations, or any other applicable ordinances of this Village, and no grant of any variation(s), waiver(s) or exception(s) from any ordinances of the Village are intended or provided unless same are specifically and expressly stated in one or both of said PUD ordinances.

SECTION 4: Express Conditions of Preliminary Approvals: The preliminary approvals for the proposed Development granted pursuant to this Ordinance shall be subject to the following conditions, restrictions, and limitations, and the Petitioner's failure to comply with any of the provisions of this Ordinance may, in the reasonable discretion of the Village Board, and upon adoption of a subsequent Ordinance relative thereto, revoke such preliminary approvals as herein granted:

(A) No Authorization for Development Activity: The approvals granted by this Ordinance are not and shall not be interpreted in any manner as an authorization for Petitioner and/or its assigns, employee(s), contractor(s), and/or agent(s) to commence any development activity on the Property. The approval(s) granted in this Ordinance are preliminary only and do not authorize and/or imply the authorization of the issuance of any Village permit(s) for the Development, including but not limited to no watershed development permit(s), no building permit(s), no earth-moving permit(s), nor any sewer or water connection permits, which permits shall not occur unless and until the Village Board has first issued its final approval of a Conditional Use Permit for a Planned Development for the Property by a separate and subsequent Ordinance of the Village. The Conditional Use Permit for the Development, as ultimately approved in final form by a separate Ordinance, shall be subject to such reasonable conditions of approval as the Village Board shall determine to be necessary, expedient, desirable, and/or appropriate and may include, at the sole discretion of the Village Board,

such other requirement(s) and/or condition(s) which shall be applicable to the proposed Development.

- (B) Prior to commencement of construction of the Development:
 - (i) The Petitioner shall obtain and record a permanent access easement to provide the Development access for ingress and egress to and from Tower Road.
 - (ii) The Petitioner shall, at its sole expense, construct or pay for the construction of all stormwater management facilities and all sanitary sewer and water system improvements required for the Development as determined by the Village Administrator, all in accordance with the final engineering which will be approved by the Village.
 - (iii) The Petitioner shall pay all required developer school and park impact fees prior to the commencement of construction. The Petitioner has also agreed to voluntarily pay builder transition permit fees as provided by Section 8-5-2 of the Lake Villa Village Code at the time individual building permits are issued to the Petitioner.
 - (iv) The Petitioner shall secure in writing all permits and approvals from the Village, from CLCJAWA, from Fox Lake and Lake County Public Works, for sewer, water and storm sewer service for the Development.
 - (v) The Petitioner shall secure in writing all permits and approvals from the Lake County Division of Transportation for all access, road improvements, or other transportation infrastructure required for the Development, including the sidewalk within the Deep Lake Road right-of-way.
 - (vi) The Petitioner shall file with the Village Treasurer an irrevocable letter of credit in a form acceptable to the Village Attorney and in an amount approved by the Village Administrator as a performance guarantee for all required on-site and off-site improvements for the Development, other than the senior apartment building itself.
 - (vii) With respect to the Property, the Village shall record a release of that certain Statement of Agreement dated September 14, 2005 by and between DEKA Investments, L.L.C. and the Village Re: Lake Tower Crossing P.U.D. recorded with the Lake County, IL Recorder on October 6, 2005 as Document 5871255.
- (C) Within six (6) months of the Petitioner's acquisition of the Property, the Village shall establish a back-up Special Service Area for the Development with a maximum SSA special tax rate not to exceed .10%. The Petitioner's maintenance obligations for the Development will be secured by such back-up Special Service Area and shall be subject to a 30-day notice and cure period for the following maintenance and other purposes:

- (i) Infrastructure, including but not limited to streets, water and sanitary sewer services, stormwater management improvements, sidewalks, and landscaping, and a permanent easement in favor of the Village for such improvements pursuant to which the Village shall have the right but not the obligation to do any such maintenance, should the Petitioner and/or its successor(s) and/or assign(s) fail to do so. However, this does not include any water mains and sanitary sewer mains, which will be dedicated to and maintained by the Village and located in an easement in favor of the Village for such purposes;
- (ii) Maintenance of common areas and amenities;
- (iii) Snow removal and ice control within the Development; and
- (iv) Payment of any unpaid water and sewer bills.

The Village will not levy any special taxes to fund said back-up Special Service Area so long as the Petitioner complies in a timely manner with all of its maintenance obligations for the Development.

- (D) Prior to the issuance of the final Certificate of Occupancy for the Development, the Petitioner shall provide to the Village "as built" final plans showing the precise location of all improvements on or related to the Property, including all buildings, utilities, sewer mains, water mains, streets, sidewalks, detention and/or retention ponds, drainage swales and other stormwater management facilities.
- (E) The Final Plat of Subdivision for the Development shall include the dedication to the Village of a non-exclusive easement over, under, across, and through designated portions of the Property for the purpose of maintenance by the Village of the water and sewer mains to be dedicated to the Village at such times and in such circumstances as the Village deems expedient.
- (F) The Petitioner shall also record in favor of the Village and the Lake Villa Township Fire Protection District, as part of the Final Plat of Subdivision for the Development, a permanent non-exclusive blanket access easement over the Property for police protection, fire and EMS services, and building inspection services.
- (G) Prior to issuance by the Village of a final occupancy permit for the Development, the Petitioner shall cause to be installed in each dwelling unit and in each of the common spaces

of the senior apartment building, smoke and fire detection, and fire suppression pursuant to plans approved in advance in writing by both the Fire Protection District and the Village, and such systems shall each pass operational inspections by the Fire Protection District. The Petitioner shall also install such knox boxes as requested by the Fire Protection District.

- (H) The final engineering for the Development shall include final engineering for the design and construction of all off-site sidewalks, one of which shall be installed from the Development to Tower Road along the West side of the Village Water Tower site, along the North side of such Water Tower site along Tower Road, and South on the West side of Deep Lake Road to where the Property is no longer adjacent to Deep Lake Road, which sidewalks shall be constructed of a hard surface material of either asphalt or concrete. Such sidewalks shall be dedicated to the Village after completion by the Petitioner and acceptance of such sidewalks by the Village.
- (I) During both the construction and operation of the Development, the Petitioner shall, at its expense, comply with all of the endangered species consultation recommendations of the Illinois Department of Natural Resources ("IDNR") relative to Blanding's Turtles, King Rail and Least Bittern, as follows, provided, however, these standards may be narrowed or otherwise modified in the Village ordinance granting final approval for the Conditional Use Permit for the proposed PUD if and to the extent that the IDNR modifies its consultation recommendation:

a. Blanding's Turtle:

- (i) All on-site personnel shall be educated by the Petitioner about this species and be instructed to stop work immediately and contact the Department (Brad Semel, Natural Heritage Division, 815-675-2386, Ext. 216) if any such turtles are encountered in the project area.
- (ii) Fliers with photos of adult and juvenile Blanding's turtles, and life-history information, shall be distributed by the Petitioner to personnel and to the Petitioner's contractors and subcontractors.
- (iii) Exclusionary fencing as approved by the Village Administrator shall be installed by the Petitioner, at the Petitioner's expense, around any area disturbed by the

- Development during construction and thereafter to partition off any wetland areas before the active season of such turtles (March 1st November 1st).
- (iv) Exclusionary fencing shall be trenched into the ground (a minimum of 4 inches), and inspected daily for Blanding's turtles by the Petitioner or by its agent(s).
 - (a) Fencing shall be installed by the Petitioner, at the Petitioner's expense, with turnarounds at open ends and at any access openings needed in the fencing, in order to redirect animals away from openings.
- (v) Excavations shall be inspected daily by the Petitioner for trapped wildlife and safely covered overnight. Soil or other potential turtle nesting medium stockpiles shall also have exclusionary fencing installed around the perimeter to discourage turtle nesting and potential harm to the animals.
- (vi) A permanent exclusionary barrier as approved by the Village Administrator between any wetlands and the project site shall be incorporated into project plans and installed by the Petitioner, at the Petitioner's sole expense, to prevent turtles from entering areas where they may be adversely impacted by daily activity. Such barrier shall include turnarounds where needed and shall be trenched by the Petitioner into the soil a minimum of 4 inches.
- b. King Rail and Least Bittern: To avoid adverse impacts to King Rail and Least Bittern, the Petitioner shall be required to take the following steps:
 - (i) A 50-foot buffer shall be maintained on all wetlands;
 - (ii) When feasible, work near wetlands shall be avoided between April 1st and September 30th to avoid the prime nesting and fledgling season for these protected bird species;
 - (iii) All lighting shall be fully shielded fixtures that emit no light upward;
 - (iv) Only "warm-white" or filtered LEDs (CCT < 3,000 K; S/P ratio < 1.2) shall be used to minimize blue emission.
 - (v) The only lighting used on the Property shall be limited to the exact space and those lumens needed to meet the Development's safety requirements.
- c. If additional protected resources are unexpectedly encountered during the Development's construction and operations, the Petitioner must comply with the applicable IDNR and federal statutes and regulations.
- d. No take of an endangered species is permitted without an Incidental Take Authorization or the required permits. Anyone who takes a listed or endangered species without an Incidental Take Authorization or required permit may be subject to criminal and/or civil penalties pursuant to the Illinois Endangered Species Act, the Fish and Aquatic Life Act, the Wildlife Code and other applicable authority.
- (J) <u>Fees and Costs</u>: In compliance with applicable provisions of the Village of Lake Villa Village Code, including but not limited to Title 10, "Zoning Regulations", Title 11, "Subdivision Regulations", and Section 1-5-3, "Debts and Legal Obligations Due to the Village" thereof, Petitioner is and shall be required to timely pay all applicable fees and costs and/or to reimburse the Village for any and all costs incurred by the Village relating to the

proposed development of the Property and any approvals related thereto (including but not limited to review and preparation of documents for granting preliminary and final approvals thereof and enforcement of such approvals), including any costs associated with the review and approval of plans and other documents prepared or to be prepared by Petitioner relative to the proposed Development. Any amount not paid within 30 days after delivery of a demand in writing for such payment shall, along with interest and the costs of collection, become a lien upon the Property, and the Village shall have the right to foreclose such lien in the name of the Village as in the case of foreclosure of liens against real estate, provided, however, that such lien shall be subordinate to any mortgage or regulatory agreement recorded against the Property. The Village shall provide a tax-exempt letter to the Petitioner but only relative to materials used to construct public improvement(s) to be owned by or dedicated to the Village.

(K) <u>Binding Effect</u>: The rights and obligations set forth in this Ordinance shall be and are binding upon and inure to Petitioner and upon any and all of Petitioner's heirs, successors, and assigns, and upon any and all successor legal or beneficial owners of all or any portion of the Property; provided that the effect of this Ordinance shall be superseded upon passage of an ordinance granting the rezoning and final PUD approval for the Property. To the extent that a successor becomes bound to the obligations created herein pursuant to a transferee assumption agreement acceptable to the Village, and such successor demonstrates to the Village that it has the financial viability to meet the obligations herein, the Petitioner shall be released from its obligations under this Ordinance, but only to the extent of the transferee's assumption of such liability. The failure of the Petitioner to provide the Village with an enforceable transferee assumption agreement as herein provided shall result in the Petitioner remaining fully liable for all of its obligations under this Ordinance but shall neither preclude a transfer nor relieve the transferee of its liability for all such obligations as a successor to

Petitioner. Notwithstanding the foregoing, Petitioner may assign its rights and obligations set forth in this Ordinance to one or more affiliates, which affiliate(s) will become the fee simple owner of the Property, and the Village consents to such assignment to Petitioner's affiliate(s) without the need for a transferee assumption agreement, but the assignment of this Ordinance and the preliminary approval herein provided to any third party other than an affiliate of the Petitioner shall require such a transferee assumption agreement executed by such third-party transferee and the written consent of the Corporate Authorities of the Village.

(L) <u>Duration and Vacation of Approved Preliminary Plan</u>: The Approved Preliminary Plans shall remain in force subject to the limitations set forth in Section 11-2-2 of the Lake Villa Village Code and 65 ILCS 5/11-12-8, but such preliminary approval may be extended at the sole discretion of the Corporate Authorities of the Village.

(M) <u>Indemnification</u>:

(1) The Village agrees to cooperate with the Petitioner, and/or its successors and/or assigns, in defending any action which contests any aspect of this Ordinance or of the rezoning of the Property and Conditional Use for a Planned Development which are granted preliminary approval herein. The Petitioner, for itself individually as well as on behalf of its successors and/or assigns, agrees to hold harmless and indemnify the Village, its elected and appointed officials, officers, employees, and other agents (the "Indemnified Village Parties") relative to any such actions and/or costs, claims, or expenses relative thereto, and all costs, including attorneys' fees, incurred by the Village in connection therewith (but excluding any actions, costs, claims, or expenses resulting from the gross negligence or willful misconduct of the Indemnified Village Parties) shall be paid for by the Petitioner or reimbursed to the Village by the Petitioner. The Village may require reasonable deposit(s) by the Petitioner to cover any such

anticipated costs in the event that the Village receives notice of any threatened or actual actions and/or costs, claims, or expenses. The Village shall refund to Petitioner any deposit remaining upon its reasonable determination that no further anticipated costs will be incurred by the Village.

(2) The Petitioner hereby undertakes and agrees, to the greatest extent permitted by law, only as to its own acts or omissions, to indemnify, defend, save and keep harmless the Indemnified Village Parties from and against any loss, cost, damage, liability, claim or expense, including attorneys' fees, which any of the Indemnified Parties may suffer, incur or sustain from or arising out of any injuries to or death of any person or persons, or damage to or loss of any real or personal property, including but not limited to damage to the Property of the Petitioner and/or to the property of tenants or invitees of the tenants, including but not limited to damages due to or resulting directly or indirectly from the Property and/or from any use and/or occupancy of the Property and/or from the Conditional Use Permit herein granted preliminary approval (but excluding any actions, costs, claims, or expenses resulting from the gross negligence or willful misconduct of the Indemnified Village Parties).

(N) <u>Remedies</u>:

(1) Any violation of this Ordinance shall also be deemed a violation of the Village of Lake Villa Zoning Code and the Lake Villa Village Code and each day such a violation exists or continues shall constitute a separate offense. As provided in the Village of Lake Villa Village Code, each such offense shall be punishable by a mandatory minimum daily fine of not less than \$100.00 per day and not more than \$750.00 per day as provided by the Village of Lake Villa Zoning Regulations and the Lake Villa Village Code.

- In the event the Petitioner, and/or its successors and/or assigns, fails to timely pay or reimburse the Village for any fees and/or expenses due pursuant to this Ordinance, or pursuant to the other applicable ordinances of the Village, or if the Petitioner otherwise violates this Ordinance, or is otherwise in default in its obligations under this Ordinance, and has been notified of and failed to cure such default within fortyfive (45) days after receipt of such notice by the Petitioner and/or its successor(s) and/or assign(s) ("Cure Period"), the Village shall be entitled to all remedies available at law and/or in equity and, in addition to all other remedies available including those otherwise set forth in this Ordinance, the Village may suspend, revoke, or decline to issue any building, occupancy and/or other permit, license(s), or approvals required by the ordinances of the Village and/or the Village may suspend or revoke the Conditional Use Permit herein granted; provided, however, that the Village shall not suspend or revoke the Conditional Use Permit herein granted without providing a hearing, if requested by the Petitioner in writing to the Village within the Cure Period, before the Mayor and Board of Trustees of the Village. Such notices as required by this Subparagraph 2 may be sent via U.S. Certified Mail, Return Receipt Requested, and Postage Prepaid.
- (O) <u>Severability Clause:</u> It is the intention of the Corporate Authorities that this Ordinance and every provision thereof shall be considered separable and the invalidity of any section, clause, provision, part, or portion of any section, clause, or provision of this Ordinance shall not affect the validity of any other portion of this Ordinance. If any section, subsection, subdivision, paragraph, sentence, clause or phrase of this Ordinance or any part thereof is for any reason held to be unconstitutional or invalid or ineffective by any court of competent jurisdiction, such decision shall not affect the validity or effectiveness of the remaining portions of this Ordinance, or any part thereof. The Corporate Authorities

hereby declare that it would have approved each section, subsection, subdivision, paragraph, sentence, clause or phrase thereof irrespective of the fact that any one or more sections, subsections, subdivision, paragraphs, sentences, clauses or phrases be declared unconstitutional, invalid or ineffective.

- (P) Exhibits: Attached hereto as Group Exhibit A and thereby incorporated herein by reference, are all the submittals which were reviewed and considered by the Plan Commission and by the Board of Trustees of the Village. All such exhibits attached to this Ordinance are deemed to be and are expressly made a part of and incorporated into this Ordinance to the same extent as if each such exhibit had been set forth in its entirety in the body of this Ordinance, provided, however, the exhibits attached to this Ordinance as herein provided are tentative, conceptual, and preliminary only (i.e., tentative and conceptual), and the incorporation by reference of such exhibits shall not constitute final approval for the purposes of issuance by the Village of building permits, Watershed Development Ordinance permits, or for any other Village permits or approvals.
- (Q) Approval Authority: If any provisions of this Ordinance delegate approval authority to any Village officer, employee, or agent for any aspect of this Ordinance, then either the Petitioner or such officer, employee, or agent of the Petitioner, and/or its successors and/or assigns, as the case may be, shall have the right to have any such decision of such Village officer, employee or agent, or his or her designee, reviewed, reconsidered, and a final decision thereon made by the Board of Trustees of the Village. Any reference in this Ordinance to the authority of the Mayor or the Village Administrator to grant or deny an approval shall, whether or not so specified, include the authority for such decision to be reviewed and made by the Mayor and Board of Trustees as the Corporate Authorities of the Village.

SECTION 5: This Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided however, that the approval(s) granted by this Ordinance shall have no force or effect unless and until Petitioner has caused a duly authorized person to execute and thereafter file with the Village the unconditional agreement and consent in the form entitled "Acceptance" attached hereto and by this reference incorporated herein and made a part hereof (the "Acceptance"); provided further that, if the Petitioner does not so file the Acceptance within sixty (60) days following the passage of this Ordinance, the Village Board may, in its discretion and without public notice or hearing, repeal this Ordinance and thereby revoke all preliminary approvals granted in this Ordinance.

SECTION 6: The sidewalk proposed by the Petitioner to be located in the public right-of-way of Deep Lake Road shall be extended approximately 100 more feet to the south beyond that which is shown on Group Exhibit A so it extends along the entire boundary of the Property along Deep Lake Road.

SECTION 7: The Plan Commission has recommended that the Conditional Use for this Development and the rezoning of the Property to the UR4 Zoning District should both automatically terminate unless the Petitioner commences construction of the Development within four (4) years after Final P.U.D. approval, but this date should be able to be extended by the Corporate Authorities of the Village by a separate ordinance at their sole discretion.

SECTION 8: The Village Clerk is hereby directed to publish this Ordinance in pamphlet form and this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law but only upon written acceptance thereof by the Petitioner. The Village Clerk is also hereby directed to record a certified copy of this Ordinance, with all attachments, with the Lake County Recorder of Deeds.

Passe	d by the Corporate Authoritie	es on April 3 rd , 2023, on a roll call vote as follows:
AYES:	Trustees	
NAYS:		
ABSENT:		
ABSTAIN:		
		Approved by the Mayor on April 3 rd , 2023.
		James McDonald, Mayor,
		Village of Lake Villa
ATTEST:		
Mary Konrac	l, Village Clerk	
Published in	pamphlet form this 3 rd day of	April, 2023.

<u>ACCEPTANCE</u>

The undersigned on behalf of the Petitioner, Lincoln Avenue Capital, LLC as the								
Petitioner, and its successors and assigns, hereby states that the undersigned is a duly authorized								
agent of the Petitioner and on behalf of such Petitioner hereby accepts, consents to and agrees to								
the terms, conditions, and restrictions of the foregoing Ordinance this day of								
, 2023.								
DETITIONED.								
<u>PETITIONER</u> :								
Lincoln Avenue Capital, LLC								
By:								
Print Name:								
Its Authorized Manager and Authorized Agent								

GROUP EXHIBIT A

2023 APPROVED PRELIMINARY PLANS

- (a) Preliminary Landscape Plan Set dated 02/06/23 by Manhard Consulting;
- (b) Photometric Plan dated 02/06/23 by Manhard Consulting;
- (c) Revised Preliminary Engineering Plan Set dated 02/06/23 by Manhard Consulting;
- (d) Stormwater Brochure dated 02/06/23 by Manhard Consulting;
- (e) Wetland Report dated 02/06/23 by Gary R. Webber Associated, Inc.;
- (f) Revised Elevation and Floorplans dated 02/16/23 by North Arrow Architecture;
- (g) IDNR Consultation EcoCat Review #2306326 dated November 14, 2022

EXHIBIT B

FORM OF LETTER OF CREDIT

(Issuer's Letterhead)

IRREVOCABLE LETTER OF CREDIT NO. _____

Date:		Expiration Date:
Amou	nt:	
Applic	cant/Permittee:	
		(Name)
		(Address)
		(City, State, Zip Code)
BENE	EFICIARY:	Village of Lake Villa
		65 Cedar Avenue
		Lake Villa, IL 60046
PERM	IITTEE:	
ADDF	RESS OF PROJ	ECT:
BUILI	DING PERMIT	`NO
Dear I	Beneficiary:	
	cable Letter of on	ned Bank (the "Bank" or the "Issuer") hereby established in your favor our Credit No which is available for negotiation of your draft at sight,, bearing the clause: "Drawn under Irrevocable Letter of Credit No", and accompanied by:
that:	A signed state	ment by any officer, or authorized employee, or agent of the Village stating
1.	remodeling of and in compli	r Village Administrator has found that the construction, addition, and/or the Project as identified above has not been completed in a timely manner ance with the rules, regulations and provisions of the Village of Lake Village and with State law; and/or
2.	This letter of	credit will expire within thirty-five (35) days or less and the Village has not

- received a renewal letter of credit; and/or
- 3. The Village has received written notice that this Letter of Credit is about to expire, and no replacement letter of credit in a form satisfactory to the Village of Lake Villa has been received by it on or before thirty-five (35) days prior to the expiration of this letter of credit; and/or
- The Permittee has not paid, or caused to be paid within forty-five (45) days of the date 4. when billed by the Village, professional expenses incurred by the Village relating to the Project.

Notwithstanding the expiration date stated above, this Letter of Credit shall continue in full force and effect and shall not expire unless and until the Village has been given written notice by

certified mail, return receipt requested, that the Letter of Credit is about to expire. The Letter of Credit shall thereafter expire thirty-five (35) days after said notice, but no sooner than the above-described expiration date.

The undersigned Bank hereby undertakes and engages that all demands made in conformity with this Irrevocable Letter of Credit will be duly honored upon presentation. If, within three (3) business days of the date any demand made in conformity with this Irrevocable Letter of Credit is presented, the undersigned Bank fails to honor the same, we agree to pay all attorneys' fees, court costs, and other expenses incurred by the Village of Lake Villa in enforcing the terms of this Letter of Credit.

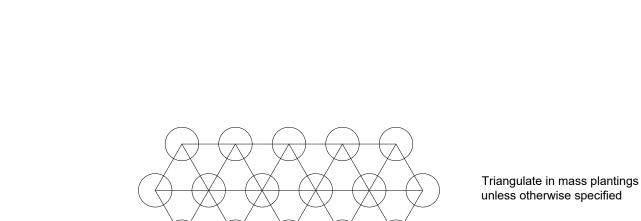
We hereby engage with drawers and/or bona fide holders that drafts drawn and negotiated in conformity with the terms of this credit will be duly honored on presentation and that drafts accepted within the terms of this Letter of Credit will be duly honored at maturity. The amount of each draft must be endorsed on the reverse of this Letter of Credit by the Bank. Any demand made on this Letter of Credit may be presented by U.S. mail, overnight courier, or in person to any office or branch of the Bank in Illinois.

Any action to enforce or otherwise relating to this Letter of Credit shall be brought in Lake County, Illinois, and Illinois law shall govern.

	Very truly yours,	
	("Bank")	
	By: President	
[CORPORATE SEAL]	ATTEST:	
	By:	

DECIDUOUS TREE PLANTING

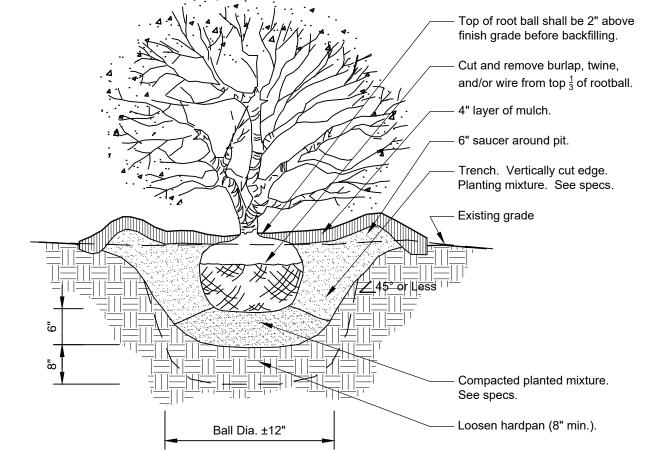
32 9343.33-20



2-5x Root Ball Dia

6' Min. Dia.

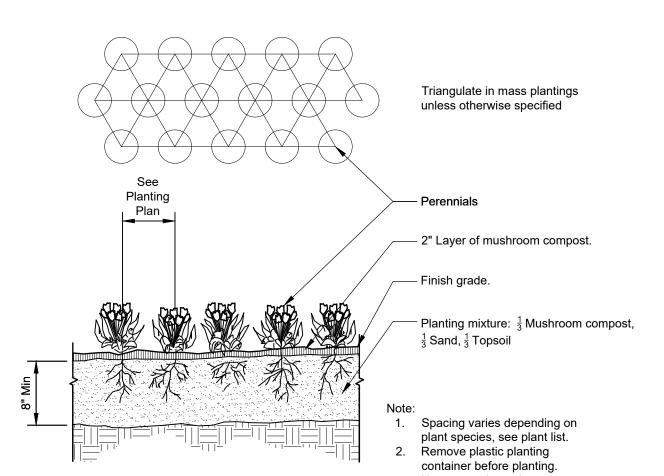
CONIFER TREE PLANTING



SHRUB PLANTING DETAIL

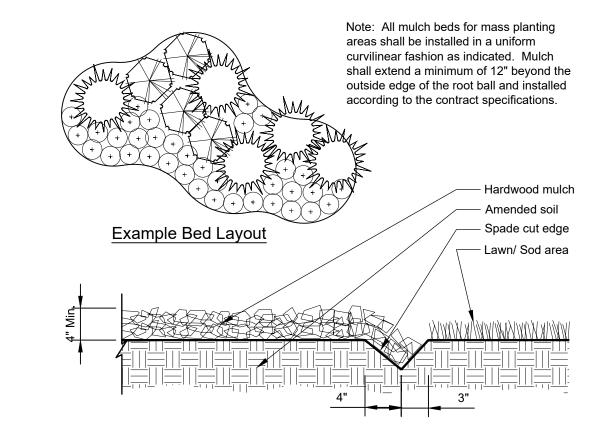
32 9333.16-05

ORNAMENTAL GRASS PLANTING



PERENNIAL / ANNUAL PLANTING

system intact.



32 9313-02

CONTINUOUS MULCH EDGING

Village of Lake Villa Required Landscaping

PLANTING AREA REQUIREMENTS

2 -Ply rubber hose $\frac{2}{3}$ up tree height

Guying cables @ 3 guys per tree. Top of root ball shall be 3" above finish grade before backfilling.

Galvanized turnbuckle. See specs.

Remove burlap from top $\frac{1}{3}$ of root ball; cut and remove as much wire

basket as possible from the root

4" Layer of mulch. 3' Dia. Mulch

Steel guying stake- auger type.

Compacted planting mixture.

Loosen hardpan (min. 24")

Note: Remove all stakes

and wires after one year of

32 9343.46-01

18" min. set top of stake at grade.

White guy wire flag.

Existing grade.

- Planting mixture.

See specs.

Ornamental grass

Finish grade.

2" Layer of mushroom compost.

Spacing varies depending on plant species, see plant list.

Remove plastic planting

container before planting

Use care to keep the root

32 9313-01

32 9113.26-01

Requirement: Canopy trees must be 2.5" Cal min., Understory trees must be 1.5" Cal min. and Shrubs must be 2' Height min.

STREET TREE REQUIREMENT -Arterial Road

Requirement: 1 Canopy Tree and 2 Understory Trees per 50 linear feet located 15' from the Right-of-Way Deep Lake Road - 196.78 linear feet $196.78 / 50 = 3.93 \times 1 = 4 \text{ Canopy Trees}$

 $3.93 \times 2 = 8$ Understory Trees

Required- 4 Canopy Trees and 8 Understory Trees On Plan - 4 Canopy Trees and 8 Understory Trees

INTERIOR LANDSCAPING FOR PARKING LOTS Requirement: For every 10 Parking Spaces 160 square feet of landscape area. 1 Canopy Tree and 3 shrubs per 160 square feet.

Parking Lot Spaces: 92 Spaces 92 / 10 = 9.2 x 160 = 1,472 Square Feet of Landscape Area $9.2 \times 1 = 9 \text{ Canopy Trees}$

Required- 9 Canopy Trees and 28 Shrubs, 1,472 square feet of green space

On Plan - 9 Canopy Trees and 28 Shrubs, 2,897 square feet of green space

PERIMETER LANDSCAPE FOR PARKING LOTS AND VEHICULAR USE AREAS

Requirement: 1 Canopy Tree or Understory Tree per 25 linear feet. Solid deciduous shrub screen 24" in height with a decorative fencing at least 3' in height.

Deep Lake Road - 196.78 196.78 / 25 = 8 Trees

 $9.2 \times 3 = 28 \text{ Shrubs}$

Required- 8 Canopy or Understory Trees with solid deciduous shrub buffer and decorative fencing at least 3' in height.

On Plan - 8 Canopy or Understory Trees with solid deciduous shrub buffer and decorative fencing at

WEST BUFFER YARD - SB adjacent to SR3 Requirement: (C Buffer Required) 30 width buffer area with 1 Canopy Tree, 1 Understory Tree, and 2 Shrubs per 100 linear feet

West property line - 523.62 / 100 = 5.24 $5.24 \times 1 = 5$ Canopy Trees $5.24 \times 1 = 5$ Understory Tree

 $5.24 \times 2 = 10 \text{ Shrubs}$

Required- 5 Canopy Trees, 5 Understory Trees and On Plan - 6 Canopy Trees, 6 Understory Trees and

15 Shrubs

115% of Requirements for Buffer Yard

SOUTH BUFFER YARD - SB adjacent to SR3 Requirement: (C Buffer Required) 30 width buffer area with 1 Canopy Tree, 1 Understory Tree, and 2 Shrubs per 100 linear feet

South property line - 427.5 / 100 = 4.28 $4.28 \times 1 = 4 \text{ Canopy Trees}$ $4.28 \times 1 = 4$ Understory Tree $4.28 \times 2 = 9 \text{ Shrubs}$

Required- 4 Canopy Trees, 4 Understory Trees and

On Plan - 4 Canopy Trees, 4 Understory Trees and 9

EAST BUFFER YARD - SB adjacent to SR2 Requirement: (C Buffer Required)

30 width buffer area with 1 Canopy Tree, 1 Understory Tree, and 2 Shrubs per 100 linear feet

East property line - 344.91 / 100 = 3.45 $3.45 \times 1 = 3$ Canopy Trees $3.45 \times 1 = 3$ Understory Tree $3.45 \times 2 = 7 \text{ Shrubs}$

Required- 3 Canopy Trees, 3 Understory Trees and 7 Shrubs

On Plan - 3 Canopy Trees, 3 Understory Trees and 7

NORTH BUFFER YARD - SB adjacent to SB No Buffer Yard Required

FOUNDATION LANDSCAPING Requirement: The developer shall provide adequate foundation landscaping for all multi-family residential buildings in keeping with the overall landscape concept for the project.

Meets Requirement

TREE REPLACEMENT TREES REQUIRED See Sheet L2 for Replacement Trees

Landscape Notes:

- 1. Seed/ Sod limit line is approximate. Seed/ Sod to limits of grading and disturbance. Contractor responsible for restoration of any unauthorized disruption outside of designated construction area.
- 2. Contractor responsible for erosion control in all seeded/ sodded areas. Tree mulch rings in turf areas are 5' diameter. Contractor shall provide a mulch ring around all existing trees within the limits of work. Remove all existing grass from area to be mulched and provide a typical spade cut edge. Landscape Fabric shall not be installed under mulch. Root flares shall be at or above grade, per specifications, and all rope/cord shall be removed from the base of tree trunks.
- Bedlines are to be spade cut to a minimum depth of 3". Curved bedlines are to be smooth and not
- 4. All planting, beds shall receive top dressing of mulch. Landscape fabric shall not be installed under mulch. 5. Do not locate plants within 10' of utility structures or within 5' horizontally of underground utility lines unless otherwise shown on plans. Consult with Landscape Architect if these conditions exist.
- 6. For Lump Sum Contracts, plants and other materials are quantified and summarized for the convenience of the Owner and jurisdictional agencies only. Confirm and install sufficient quantities to complete the work as drawn and specified. No additional payments will be made for materials required to complete the work as drawn and specified.
- 7. For Unit Price Contracts, payments will be made based on actual quantities installed as measured in place by the Owner's Representative.
- 8. It is the responsibility of the contractor to locate and provide plant material as specified on this plan. The contractor may submit a request to provide substitutions for the specified plant material under the following
 - a. Any substitutions proposed shall be submitted to the project owner's representative within two weeks of the award of contract. Substitutions must meet equivalent design and functional goals of the original materials as determined by the owner's representative. Any changes must have the approval of the owner's representative,
- b. The request will be accompanied by at least three notices from plant material suppliers that the plant material specified is not available and will not be available prior to construction.
- 10. Verify site conditions and information on drawings. Promptly report any concealed conditions, mistakes, discrepancies or deviations from the information shown in the Contract Documents. The Owner is not responsible for unauthorized changes or extra work required to correct unreported discrepancies. Commencement of work shall constitute acceptance of conditions and responsibility for corrections
- 11. A minimum of two working days before performing any digging, call underground service alert for information on the location of natural gas lines, electric cables, telephone cables, etc. The contractor shall be responsible for location and protection of all utilities, and repair of any damage resulting from his work at no additional cost to the owner.
- 12. Contractor shall promptly repair all damages to existing site at no cost to owner.
- 13. Refer to landscape specifications for additional conditions, standards, and notes.

CONCEPT	PLANT SCHEDULE	
	STREET CANOPY TREES	4
	STREET UNDERSTORY TREES	8
	INTERIOR PARKING LOT TREES	8
N. C.	PERIMETER UNDERSTORY TREES -	8
	BUFFER CANOPY TREES	13
	BUFFER UNDERSTORY TREES	14
	REPLACEMENT TREES	41
	EXISTING DECIDUOUS TREES TO REMAIN	11
A CANAL CARE	EXISTING EVERGREEN TREES TO REMAIN	10
\odot	INTERIOR PARKING LOT SHRUBS	22
	PERIMETER LANDSCAPE SHRUB BUFFER	46
\odot	BUFFER YARD SHRUBS	31
₹÷}	LARGE EVERGREEN SHRUBS	7
\bigcirc	MEDIUM SHRUBS	67
\odot	LARGE SHRUBS	52
\bigcirc	SMALL SHRUBS	15
	ORNAMENTAL GRASSES	34
	PERENNIALS -	126 sf
	ECONOMY PRAIRIE SEED MIX	74,755 sf

NOTE: Proposed Plant Material on the Landscape Plan to be a native species that is native to Illinois

TURF AREA

STORMWATER SEED MIX

EMERGENT STORMWATER SEED MIX





26,015 sf

4,621 sf

11-23-22 _1"=XX' SHEET

LAC.LVIL01

PROJ. MGR.: MDE

ILLINOIS

VILLA

OF

VILLAGE

LOFTS

SENIOR

VILLA

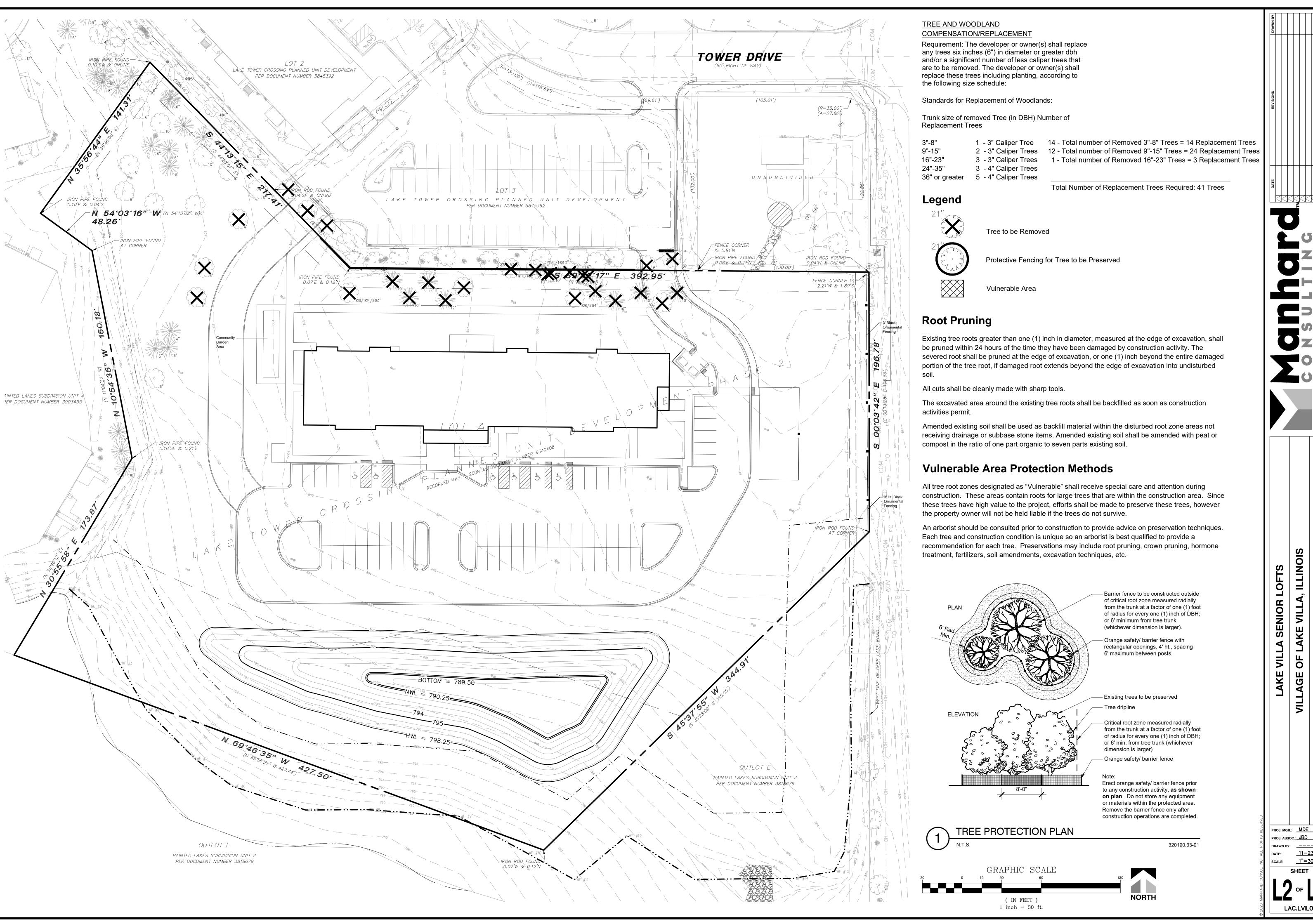
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LANDSCAPE

AN

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VILLA, ILLINOIS PRESERVATION PLAN LOFTS

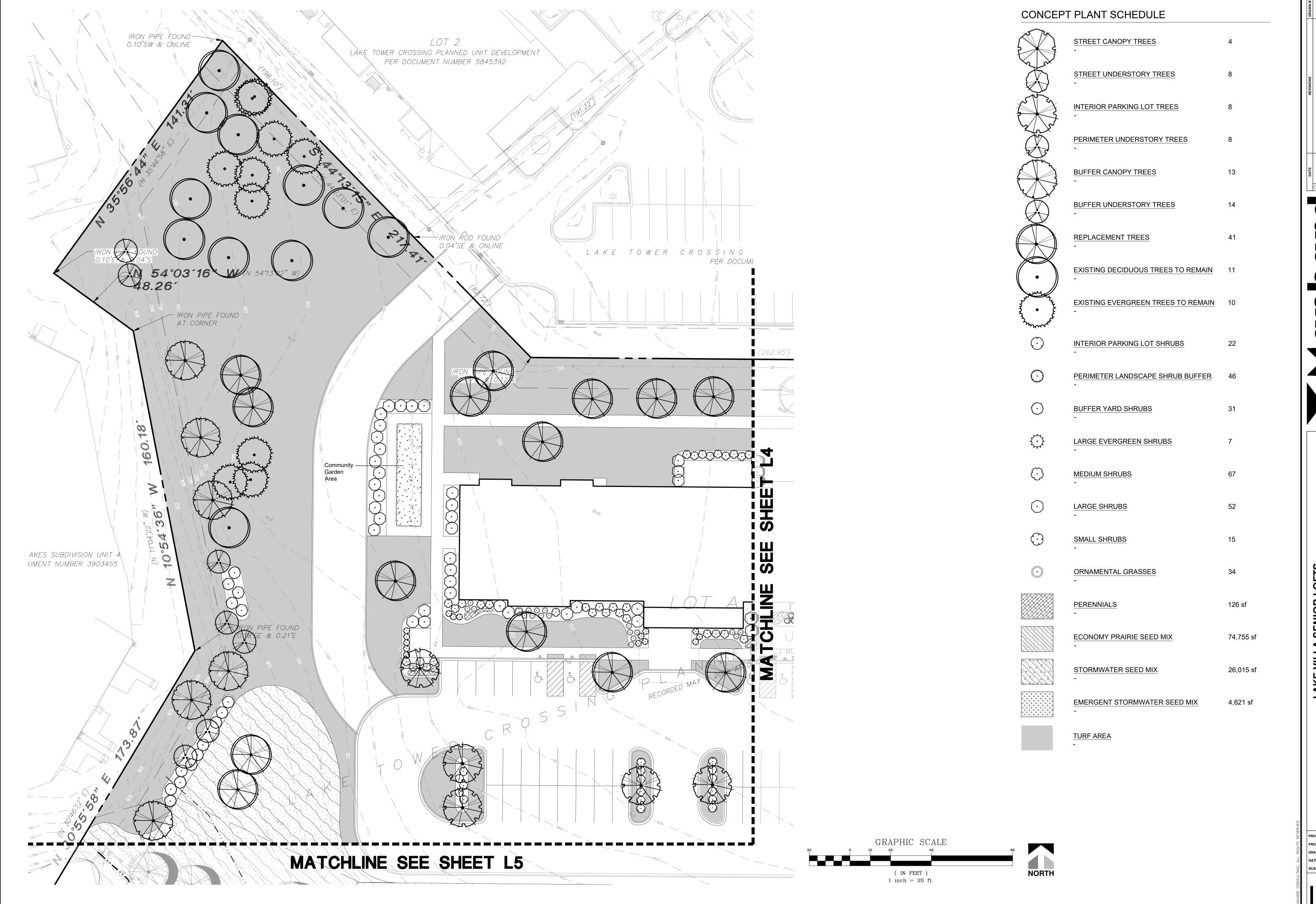
OF

VILLAGE

11-23-22

<u>1"=30'</u>

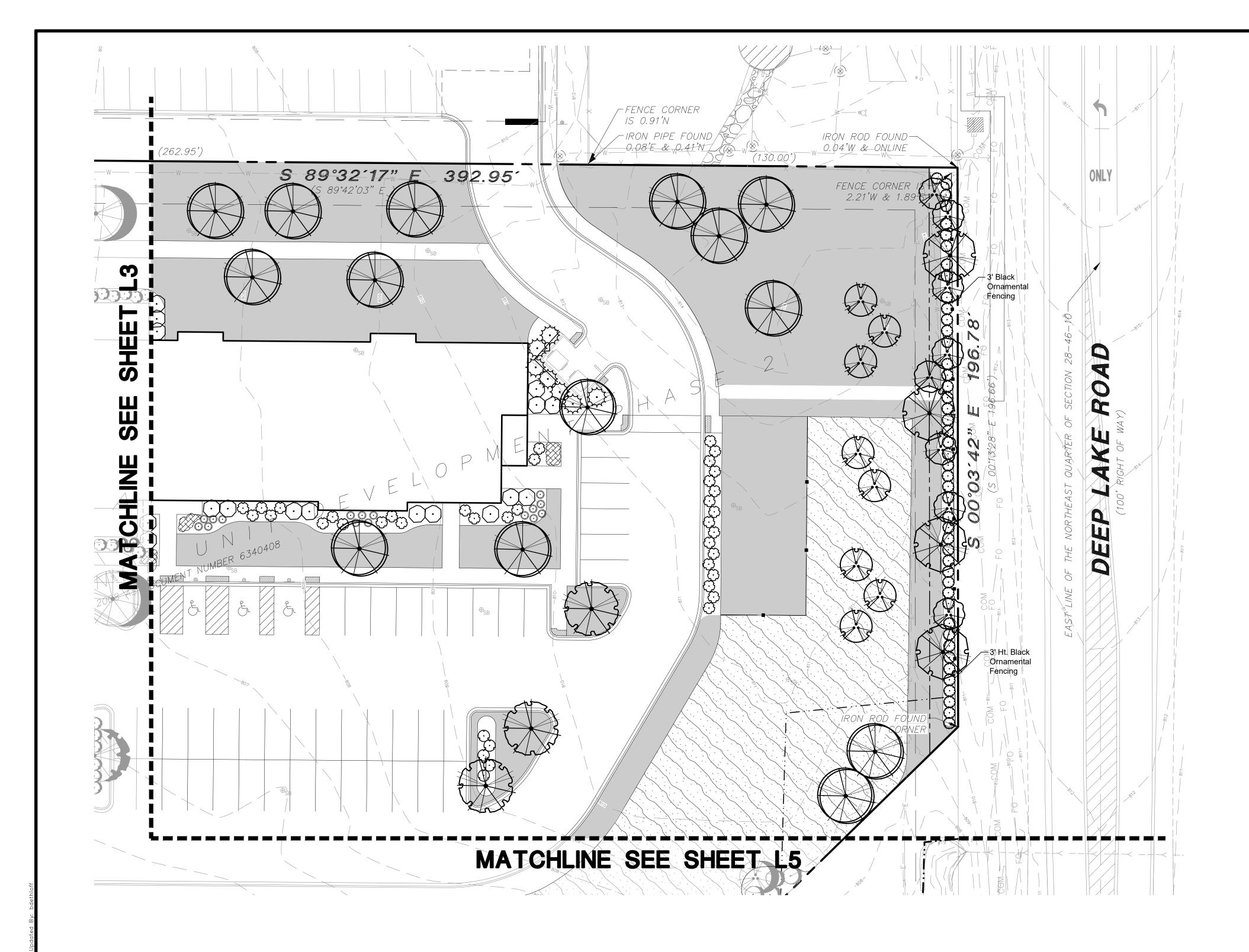
TREE

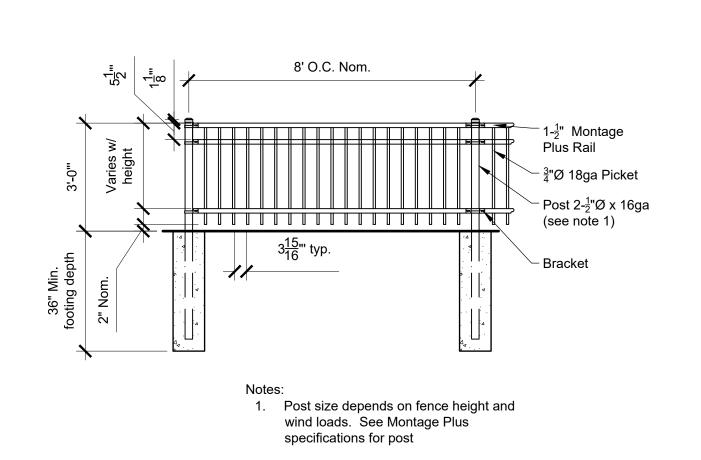


VILLAGE OF LAKE VILLA, ILLINOIS LAKE VILLA SENIOR LOFTS

PRELIMINARY LANDSCAPE PLAN - NORTHWEST

11-23-22 1"=20'





3' MONTAGE PLUS ORNAMENTAL FENCE- MAJESTIC
3/8" = 1'-0"
323119-02

CONCEPT PLANT SCHEDULE STREET CANOPY TREES -

STREET UNDERSTORY TREES

INTERIOR PARKING LOT TREES

-

PERIMETER UNDERSTORY TREES
-

BUFFER CANOPY TREES 13

BUFFER UNDERSTORY TREES
-

REPLACEMENT TREES 41
EXISTING DECIDUOUS TREES TO REMAIN 11

EXISTING EVERGREEN TREES TO REMAIN 10

INTERIOR PARKING LOT SHRUBS

PERIMETER LANDSCAPE SHRUB BUFFER
46

BUFFER YARD SHRUBS
-

LARGE EVERGREEN SHRUBS
-

MEDIUM SHRUBS

LARGE SHRUBS 52

SMALL SHRUBS 15

ORNAMENTAL GRASSES

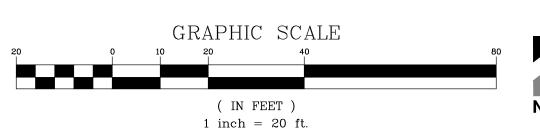
PERENNIALS

ECONOMY PRAIRIE SEED MIX 74,755 sf

STORMWATER SEED MIX 26,015 sf

EMERGENT STORMWATER SEED MIX 4,621 sf

TURF AREA





67

34

126 sf

One Overlook Point, Suite 290, Lincolnshine, IL 60069 ph:847.634.5550 fx:847.634.0095 menthand.com
Civil Engineers • Water Resource Engineers • Water & Wasteweter Engineers

LAKE VILLA SENIOR LOFTS

VILLAGE OF LAKE VILLA, ILLINOIS

PRELIMINARY LANDSCAPE PLAN - NORTHEAST

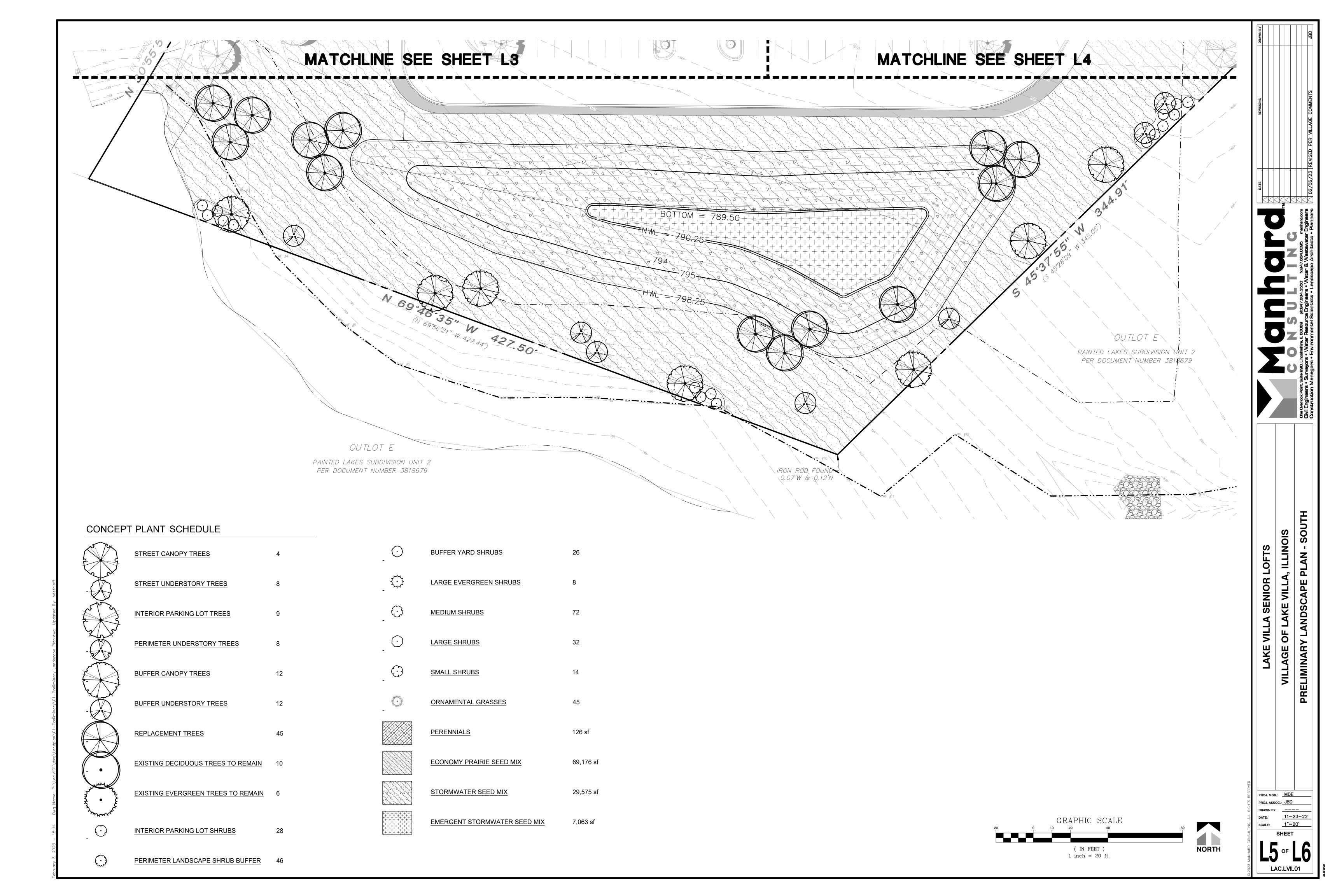
PROJ. MGR.: MDE
PROJ. ASSOC.: JBD

DRAWN BY: ---DATE: 11-23-22
SCALE: 1"=20'

SHEET

L4 OF L6

LAC.LVIL01



GENERAL PLANTING SPECIFICATIONS:

PART 1 - GENERAL

1-01 DESCRIPTION:

- A. Provide trees, shrubs, perennials and groundcovers as shown and specified. This work includes:
- 1. Spreading of topsoil or soil preparation
- 2. Trees, shrubs, perennials and groundcovers
- 3. Planting mixes
- 4. Mulch and planting accessories 5. Fertilizer and herbicide
- 6. Maintenance 7. Warranty of plant material
- B. The Contractor shall verify all existing conditions and dimensions in the field prior to bidding and report any discrepancies to the Owner or his/her representative.

1-02 QUALITY ASSURANCE:

A. Comply with site work requirements

- B. Plant names indicated must comply with 'Standardized Plant Names' as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties which are not listed should conform with those generally accepted by the nursery trade. Stock should be legibly tagged.
- C. All plant materials shall conform to the 'American Standards for Nursery Stock' (ASNS), latest edition, published by the American Association of Nurserymen, Washington, D.C.
- D. All plant material shall be grown and supplied within a 50 mile radius of the project for a minimum of two
- E. Adhere to sizing requirements as listed in the plant list and/or bid form for the project. A plant shall be measured in its natural standing position.
- Stock that is furnished shall be at least the minimum size shown. With permission of the landscape architect, substitution from the specified plant list will be accepted only when satisfactory evidence in writing is submitted to the landscape architect, showing that the plant specified is not available. Requests for approval of substitute plant material shall include common and botanical names and size of substitute material. Only those substitutions of at least equivalent size and character to that of the specified material will be approved. Stock which is larger than that which is specified is acceptable with permission of the landscape architect, providing there is no additional cost and that the larger plant material will not be cut down in order to conform to the size indicated.
- G. All shrubs shall be dense in form. Shrub liners do not meet these specifications. Shrubs specified by height shall have a spread that is equal to the height measurement. Shrubs which are specified by spread shall exhibit the natural growth habit of the plant by having a greater spread than height.
- H. All plant materials are subject to inspection and approval. The landscape architect and Owner reserve the right to select and tag all plant material at the nursery prior to planting. The landscape architect and Owner reserve the right to inspect plant material for size and condition of root systems, the presence of insects and diseases, injuries and latent defects (due to Contractor negligence or otherwise), and to reject unacceptable plant material at any time during progress of the project.
- Container grown deciduous and/or evergreen shrubs will be acceptable in lieu of balled and burlapped shrubs subject to specified limitations for container grown stock. Size of container grown material must conform to size/height requirements of plant list.

1-03 DELIVERY, STORAGE & HANDLING:

- A. Fertilizer shall be delivered in original, unopened and undamaged packaging. Containers shall display weight, analysis and manufacturer's name. Store fertilizer in a manner that will prevent wetting and
- B. Take all precautions customary concerning proper trade practice in preparing plants for transport. Plants shall be dug, packed and transported with care to ensure protection against injury. Inspection certificates required by law shall accompany each shipment invoice or order to stock and on arrival, the certificate shall be filed with the landscape architect. All plants must be protected from drving out. If plant material cannot be planted immediately upon delivery, said material should be properly protected in a manner that is acceptable to the landscape architect . Heeled-in plants must be watered daily. No plant shall be bound with rope or wire in a manner that could strip bark or break or shear branches.
- C. Plant material transported on open vehicles should be covered with a protective covering to prevent wind burn.
- D. Dry, loose topsoil shall be provided for planting bed mixes. Muddy or frozen topsoil is unacceptable as working with medium in this condition will destroy its structure, making root development more difficult.

1-04 PROJECT CONDITIONS:

- A. Notify landscape architect at least seven (7) working days prior to installation of plant material.
- B. It shall be the Contractor's responsibility to locate and protect all existing above and below ground utilities. Utilities can be located and marked (in Illinois) by calling J.U.L.I.E. at (800)892-0123.
- C. The Contractor shall provide, at his/her own expense, protection against trespassing and damage to seeded areas, planted areas, and other construction areas until the preliminary acceptance. The Contractor shall provide barricades, temporary fencing, signs, and written warning or policing as may be required to protect such areas. The Contractor shall not be responsible for any damage caused by the Owner after such warning has been issued.
- D. The Contractor shall be responsible for the protection of crowns, trunks and roots of existing trees, plus shrubs, lawns, paved areas and other landscaped areas that are to remain intact. Existing trees, which may be subject to construction damage, shall be boxed, fenced or otherwise protected before any work is started. The Owner desires to preserve those trees within and adjacent to the limits of construction except those specifically indicated to be removed on the Drawings. The contractor shall erect protective tree fencing and tree armor at locations indicated on the drawings and around all trees on site which are to be preserved. Protective fencing shall be erected between the limits of construction and any tree preservation areas shown on the Drawings.
- E. A complete list of plants including a schedule of sizes, quantities and other requirements is shown on the Drawings and on the bid form. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.

1-05 PRELIMINARY ACCEPTANCE:

A. All plantings shall be maintained by the Contractor for a period of 90 days after preliminary acceptance by the Owner or his/her representative. Maintenance shall include, but is not limited to: mowing and edging turf, pulling weeds, watering turf and plant material and annual flower maintenance.

1-06 WARRANTY:

A. All plant material (excluding annual color), shall be warranteed for one (1) year after the end of the 90 day maintenance period. The end of the maintenance period is marked by the final acceptance of the Contractor's work by the Owner or his/her representative. Plant materials will be warranteed against defects including death and unsatisfactory growth, except for defects resulting from abuse or damage by others, or unusual phenomena or incidents which are beyond the control of the Contractor. The warranty covers a maximum of one replacement per item.

PART 2 - PRODUCTS

2-01 PLANT MATERIALS:

- A. Plants: Provide typical of their species or variety, with normal, densely developed branches and vigorous, fibrous root systems. Only sound, healthy, vigorous plants which are free from sunscald injuries, disfiguring knots, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation shall be provided. All plants shall have a fully developed form without voids and open patches.
 - 1. Balled and burlapped plants shall have a firm natural ball of earth of sufficient diameter and depth to encompass a root system necessary for a full recovery of the plant. Root ball sizes shall comply with the latest edition of the 'American Standards for Nursery Stock' (ASNS). Root balls that are cracked or mushroomed are unacceptable.
 - 2. Container grown stock should be grown for an amount of time that is of sufficient length for the root system to have developed enough to hold its soil togehter, firm and whole, Plants will not be loose in their containers, nor shall they be pot-bound and all container grown stock will comply with the sizes stated on the plant list.
 - 3. No evidence of wounds or pruning cuts shall be allowed unless approved by the Landscape Architect.
 - 4. Evergreen trees shall be branched to the ground. The height of evergreen trees are determined by measuring from the ground to the first lateral branch closest to the top. Height and/or width of other trees are measured by the mass of the plant not the very tip of the branches.
 - 5. Shrubs and small plants shall meet the requirements for spread and/or height indicated in the plant list. The height measurement shall be taken from ground level to the average height of the top of the plant, not the longest branch. Single stem or thin plants will not be accepted. Side branches shall be flushed with growth and have good form to the ground. Plants shall be in a moist, vigorous condition, free from dead wood, bruises or other root or branch injuries.

2-02 ACCESSORIES:

- 1. Topsoil shall be fertile, natural topsoil of a loamy character, without admixture of subsoil material. Topsoil shall be reasonably free from clay, lumps, coarse sand, stones, plants, roots, sticks and other foreign materials with a pH between 6.5 to 7.0.
- B. Topsoil for seed areas shall be a minimum of 6".

C. Soil amendments shall be as follows:

- 1. For trees and shrubs the plant pit will be backfilled with pulverized black dirt.
- 2. For perennials and ornamental grasses the soil mixture will be as follows: CM-63 General Purpose Peat Based Mix as supplied by Midwest Trading. Top beds with 8" of CM-63 and till into existing beds to a depth of 8". Soil mixtures are available from Midwest Trading. Midwest Trading, St. Charles, IL 60174 (630) 365-1990

- 1. For trees and shrubs use: 14-4-6 briquettes 17 g or equivalent available from Arthur Clesen, Inc. Follow manufacturer's recommendation for application. Arthur Clesen, Inc. 543 Diens Drive, Wheeling, IL 60090 (847)537-2177
- 2. For turf areas use 6-24-16 Clesen Fairway with micronutrients with minor elements 3.0 % S, .02% B. .05% Cu, 1.0% Fe, .0006% Mo, .10% Mn available from Arthur Clesen or approved equal.
- E. Herbicide: 1. AquaPro Aquatic Herbicide or approved equal

- 1. Bark mulch shall be finely shredded hardwood bark which has been screened and is free of any green foliage, twigs, rocks, sawdust, wood shavings, growth or germination inhibiting ingredients, or other foreign materials. Bark mulch is available from Midwest Trading.
- 2. Mushroom compost as available from Midwest Trading.

1. Water service will be available on the site, with the cost of water being paid by the Owner. Transporting of the water from the source to the work areas shall be the responsibility of the Landscape Contractor. All necessary hose, piping, tank truck, etc. shall be supplied by the Landscape Contractor.

H. Guying: Stakes: 5/8" x 40" steel eye anchor with 4" helix

- a. Trees under 5": flexible 1/8" galvanized aircraft cable, 7x7 strand or approved equal b. Trees 5" and over: flexible 3/16" galvanized aircraft cable, 7x7 strand or approved equal.
- 3. Turnbuckles: 5/16", eye and eye, with 4" takeup.
- 4. Hose: new two-ply reinforced rubber hose, minimum 1/2" I.D.
- I. Tree wrap: Burlap tree wrap 4" wide.
- J. Twine: Soft nursery jute.

PART 3 - INSTALLATION OF PLANT MATERIAL

3-01 FIELD VERIFICATION:

A. Examine proposed planting areas and conditions of installation. Do not start planting work until unsatisfactory conditions are corrected.

3-02 PREPARATION:

- A. All planting techniques and methods shall be consistent with the latest edition of 'Horticulture Standards of Nurserymen, Inc.' and as detailed on these Drawings.
- B. Planting shall be performed by experienced workmen familiar with planting procedures under the supervision of a qualified supervisor.
- C. All underground utilities must be located and marked clearly.
- D. Apply AquaPro Aquatic Herbicide or approved equivalent to kill any existing vegetation in all areas to be planted. Confirm length of waiting period between chemical application and plant installation with manufacturer. Do not begin planting operations until prescribed post-application waiting period has elapsed. Take extreme care to avoid chemical drift to adjoining properties of landscape plantings.

- E. Prior to all planting, rototill all areas to be landscaped to prepare for plant installation to a minimum depth of 12". Eliminate uneven areas and low spots. Maintain lines, levels, profiles and contour. Changes in grade are to be gradual. Blend slopes into level areas. Remove all debris, weeds and undesirable plants and their roots from areas to be planted. Remove all concrete slag larger than 2" in
- F. Topsoil shall be spread over the site at a minimum depth of 6". For those areas which are indicated as prairie or natural areas on the Drawings, a topsoil depth of 18" is recommended where possible.
- G. It shall be the responsibility of the landscape contractor to prepare all seeded areas by disking and raking prior to planting seed. Soil shall be loosened and scarified to a minimum depth of 6". Fine grading of all seeded areas is required. Maximum size of stone or topsoil lump is 1".
- H. Locate all plant material as indicated or as approved in the field by the Landscape Architect. If obstructions are encountered which are not shown on the drawings, then do not proceed with planting operations until alternate plant locations have been selected.
- Planting holes shall be constructed as shown on the planting details. Holes shall be hand dug or machine dug. Great care will be taken to not excavate the hole deeper than the root ball and the diameter shall be a minimum of two times the root ball width. Remove any materials encountered in excavation that may be injurious to plant growth, including stones larger than 2" in diameter or other debris. Soil to be used as backfill should be pulverized.
- J. Provide pre-mixed planting mixture for use around root systems and root balls of the plants. The mixtures are outlined in section B of part 2-02.
- K. Prior to planting, provide additional topsoil to all planting beds to bring the finish grade of the bed to 2" above lawn grade and to finish grade of adjacent hard surface grades.
- L. Add 2" thickness of mushroom compost to all annual, perennial and groundcover beds. Finish grade bed and install plants.

3-03 PLANTING PROCEDURES:

- A. Set plant material in the planting hole to proper grade and alignment. Set plants upright and plumb. Set plant material 2" above the adjacent finish grade. Remove burlap from top 1/3 of root ball. Remove treated burlap (green). Cut and remove or cut and fold down upper half of wire basket, dependent upon tree size. Backfill hole by firmly tamping soil to avoid any air pockets or voids.
- B. Set balled and burlapped plants in the planting hole and compact 8" of soil around the base of the ball. Backfill remaining space with planting mixture. Water plants immediately after planting to eliminate all voids and thoroughly soak the plant root ball.
- C. Space groundcover plants according to dimensions given on the plans. Adjust spacing as necessary to evenly fill planting bed with indicated number of plants. Plant to within 18" of the trunks of trees and shrubs or at the edge of the plant ball, whichever is closest. Plant to within 12" of edge of bed.
- - 1. Install 4" depth of mulch around all tree and shrub beds as indicated on drawings or planting details. Mulch shrub planting areas as continuous beds. Do not place mulch directly against tree trunk; form mulch to create an inverted cone around trunk.
 - 2. Mulch perennial, groundcover and annual planting beds with 2" mushroom compost. Water mulched areas thoroughly after placing mulch.
- E. Tree wrapping is not required, unless the Contractor feels it is necessary due to characteristics of a particular species or past experience with the species. The landscape architect will be notified as to which trees are to be wrapped and shall inspect the trunk(s) before wrapping. Tree wrap will not be used to cover damage or defects. When wrapping is done, trunks will be wrapped spirally with approved tree wrapping tape that is not less than 4" wide, and securely tied with suitable cord at the top, bottom and 2" intervals along the trunk. Wrap from ground to the height of the first branch.
- Staking and guying of trees is optional. If the Contractor chooses to stake all or part of the trees, he/she shall use the method specified in the planting details. One (1) stake is to be used on trees of 1" caliper and under, or 4' height and under. Two (2) stakes are to be used on trees of 1" to 2 3/4" caliper. Guy trees of 3" caliper or larger at three (3) per tree. The root ball will not be pierced with a stake. Stakes are to be driven at least eighteen (18) inches into subsoil below the planting hole. Stakes and wire attachments shall be removed after three months for spring planted material and by the following May for fall planted stock by the Contractor. Staking and guying should be done immediately after lawn seeding or sodding operations.
- G. Seeding of specified lawn areas on plans will be treated as follows:
- 1. Topsoil shall be spread over all areas to be seeded to a minimum depth of 6" when compacted (to be performed by others).
- 2. Seed mixture and application rate use <u>Premium</u> seed mix as supplied by Arthur Clesen, Inc. Apply at a rate of 5 lbs./1000 s.f.
- 3. Apply fertilizers and conditioners at the rate specified per soil test findings. In lieu of soil test results, apply two (2) tons of ground agricultural limestone and 1000 lbs. 10-10-10 or equivalent analysis fertilizer per acre. At least 40% of the fertilizer nitrogen shall be of an organic origin.
- 4. Soil preparation areas where vehicular traffic has compacted the soil shall be loosened/scarified to a minimum depth of 6" before fertilizing and seeding. Fine grading of all seeded areas is required. Maximum size of stone or topsoil lump is 1".
- 5. Watering seeded areas shall be done to ensure proper germination. Once seeds have germinated, watering may be decreased but the seedlings must never be allowed to dry out completely. Frequent watering should be continued approximately four (4) weeks after germination or until grass has become sufficiently established to warrant watering on an 'as
- 6. Turf is being established on a variety of slope conditions. It shall be the Contractor's responsibility to determine and implement whatever procedures he/she deems necessary to establish the turf as part of his/her work. Seeded areas will be accepted when all areas show a uniform stand of the specified grass in healthy condition and at least 90 days have elapsed since the completion of this work. The Contractor shall submit with his/her bid a description of the methods and procedures he/she intends to use.
- H. Erosion Control Blanket
 - 1. Erosion Control Blanket shall be installed per manufacturer's recommendation in all areas shown
 - 2. Install S-75 Erosion Control Blanket as manufactured by North American Green or approved
 - Blanket should be premarked with staple pattern.
 - 4. Staples should be 8" wire staples, applied at two (2) per square yard minimum.
 - 5. Suitable erosion control practices shall be maintained by the CONTRACTOR in accordance with Illinois Urban Manual and all applicable Soil Erosion and Sedimentation Control ordinances and the PLANS.

2. Moisten prepared surface immediately prior to laying sod. Water thoroughly and allow surface

Sodding of specified lawn areas on plans will be completed as follows: 1. Rake soil surface to receive sod to completely remove any soil crust no more than one day prior

moisture to dry before planting lawns. Do not create a muddy soil condition

- 4. Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips; do not overlap. Stagger strips to offset joints in adjacent courses. Work from boards to avoid damage to subgrade or sod. Work sifted soil into minor cracks between pieces of sod; remove excess to avoid smothering of adjacent sod.

3. Sod shall be laid within 24 hours from the time of stripping. Do not plant dormant sod or if the

- 5. Place top elevation of sod 1/2 inch below adjoining edging or paving.
- 6. Water sod thoroughly with a fine spray immediately after planting.
- 7. After sod and soil have dried, roll seeded areas to ensure a good bond between the sod and soil, and to remove minor depressions and irregularities.
- 8. Sodded slopes 3:1 or greater shall be staked to prevent erosion and washout.
- 9. Warranty sodding for a period of one (1) year from the end of the 90 day maintenance period. If sod fails or lacks vigor and full growth as determined by the Landscape Architect, the Contractor will repeat site preparation operations and re-sod affected areas at the Contractor's expense.
- 10. Note: Sod shall be a premium Kentucky Bluegrass blend, and is required in all areas indicated on the plans as well as areas which have been affected by construction. Sod can be placed as long as water is available and the ground surface can be properly prepared. Sod shall not be laid on frozen or snow-covered ground. Sod shall be strongly rooted, not less than two (2) years old and free of weeds and undesirable native grasses. Sod should be machine cut to pad thickness of 3/4" (plus or minus 1/4"), excluding top growth and thatch. Provide only sod capable of vigorous growth and development when planted (viable, not dormant). Provide sod of uniform pad sizes with maximum 5% deviation in either length or width. Broken pads or pads with uneven ends will not be acceptable. Sod pads incapable of supporting their own weight when suspended vertically with a firm grasp on the upper 10% of pad will not be accepted.
- J. Timing of plant material and seeding operations:
 - 1. Seeding of specified areas shall occur when the soil temperature is above 55° F. No seed shall be sown during periods of high winds, or when the ground is not in proper condition for seeding (see section 3-02 (G)). Seeding operations for the specified mixes shall occur in the spring time frame of April 15 through June 30 and in the summer time frame of August 15 through December 1. The mixes containing bluegrass and fescue seed must have six weeks to harden off for winter
 - 2. Sod shall be installed when the ground is not frozen or snow covered and temperatures are less than 80° F. It shall not be placed during a period of extended drought.
 - 3. Herbaceous ornamental plants shall be planted between May 1 and June 15 or between August 15 and December 1
 - 4. Spring planting of woody ornamental plants shall be performed from the time the soil can be easily worked until June 1, except that evergreen planting shall end on May 15. Oak, hawthorn and red maple species will only be planted during this spring planting period. Fall planting will begin August 15 and will continue until the ground cannot be worked satisfactorily, except that evergreen planting shall be performed between August 15 and December 1.

3-04 MAINTENANCE:

A. All plantings shall be maintained by the Contractor for a period of 90 days after preliminary acceptance by the Owner or his/her representative. Maintenance shall include but is not limited to: mowing and edging turf, pulling weeds, watering turf areas and plant material plus annual flower maintenance. The Contractor will reset settled plants to proper grade and position. Dead material will be removed. Stakes and guy wires will be tightened and repaired as required.

3-04 ACCEPTANCE:

A. All plant material (excluding annual color), shall be warranteed for one (1) year after the end of the 90 day maintenance period. The end of the maintenance period is marked by the final acceptance of the Contractor's work by the Owner or his/her representative.

3-06 SITE CLEAN-UP:

A. The Contractor shall protect the property of the Owner and the work of other contractors. The Contractor shall also be directly responsible for all damage caused by the activities and for the daily removal of all trash and debris from his/her work area to the satisfaction of the landscape architect .

ILLINOIS **ECIFICATIONS** LOFTS VILLA SENIOR LAKE 五 $\overline{\mathbf{S}}$ CAPE OF LANDS VILLAGE LAKE

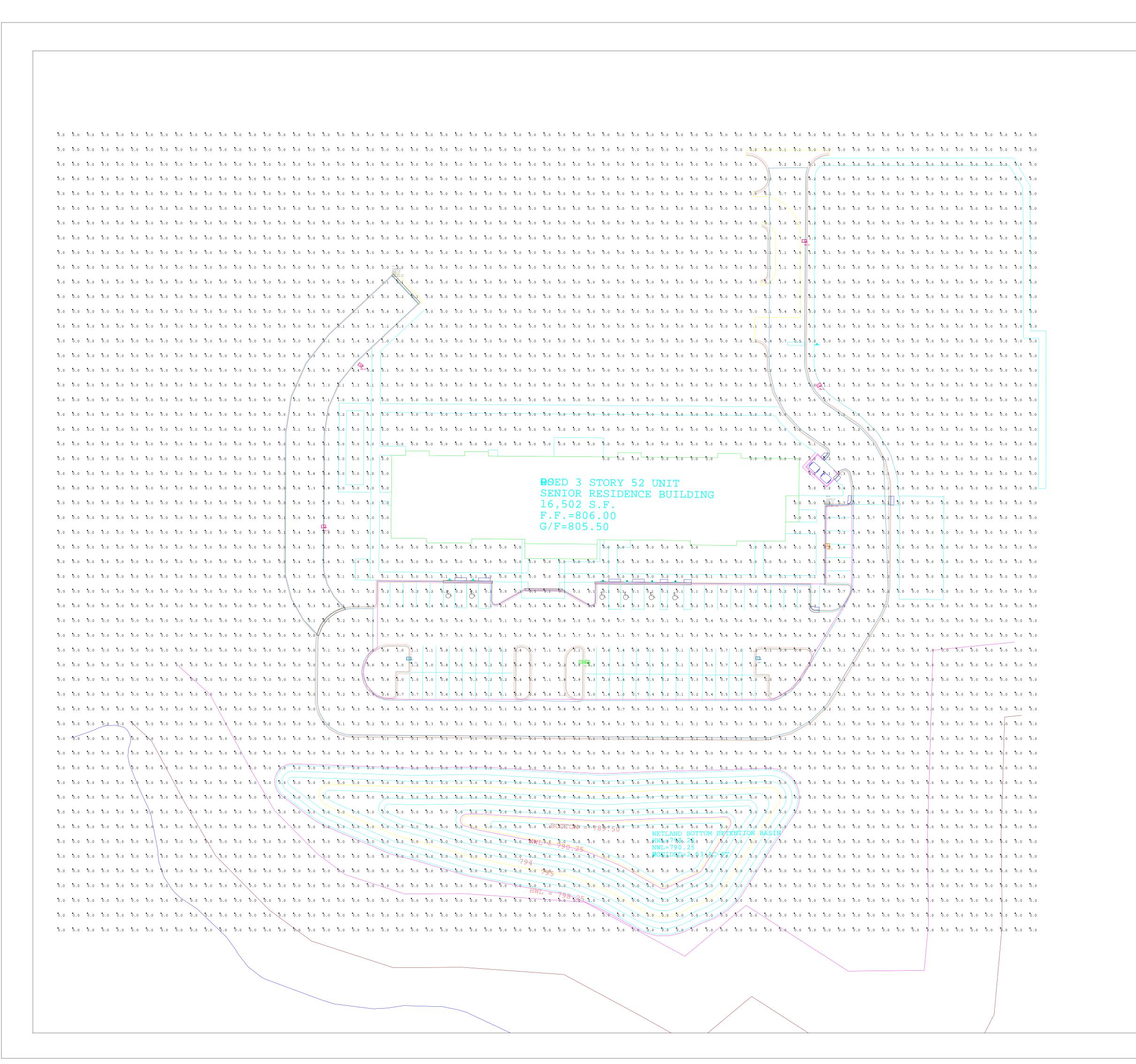
PROJ. MGR.: MDE PROJ. ASSOC.: JBD

DRAWN BY: _____

DATE:

11-23-22

<u>1"=XX'</u>





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 $24" \times 36"$

Luminaire	Schedule					
Symbol	Label	Qty	Description	Ш	Lum. Watts	Lum. Lumens
→	F3H	I	ECF-S-32L-365-VVV-G2-3-HIS	0.900	40	4292
	F4B2B	I	ECF-S-32L-365-VWV-G2-4	0.900	40	5637
→	F5W	2	ECF-S-32L-365-VWV-G2-5W	0.900	40	5604
+	F2H	4	ECF-S-32L-365-VVV-G2-2-HIS	0.900	40	4219

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
CalcPts_I	Illuminance	Fc	0.11	6.3	0.0	NA	NA	
Drive	Illuminance	Fc	0.62	4.9	0.0	NA	NA	
Parking	Illuminance	Fc	0.71	6.3	0.1	7.10	63.00	



Chicago Lightworks
505 Warrenville Rd.
Suite 101
Lisle, IL 60532

Prepared By:

M Brizzell

(630) 320-2948

MBrizzell@chicagolightworks.com

 Rev
 Date
 Comments

Starling Senior Apartments Lake Villa

Project Name:

24" x 36" Page 2 of 2



by (s) ignify

Site & Area

EcoForm

ECF-S small area light





Gardco EcoForm Gen-2 combines economy with performance in an LED area luminaire. Capable of delivering up to 27,800 lumens or more in a compact, low profile LED luminaire, EcoForm offers a new level of customer value. EcoForm features an innovative retrofit arm kit, simplifying site conversions to LED by eliminating the need to drill additional holes in most existing poles. Integral control systems available for further energy savings. Includes Service Tag, our innovative way to provide assistance throughout the life of the product.

roject:	
ocation:	
at.No:	
ype:	
amps:	Qty:
lotos:	

Ordering guide

example: ECF-S-64L-900-NW-G2-AR-5-120-HIS-MGY

Prefix ECF-S		Number	r of LEDs	Drive Co	urrent	LED Color -	Generation	Mountir	ng	Distribu	tion				Voltage	
ECF-S)	EcoForm site and area, small	48L 64L	32 LEDs (2 modules) 48 LEDs (3 modules) 64 LEDs (4 modules)	700 1A 1.2A 900 1A 1.2A ¹⁹	365 mA 530 mA 700 mA 1050 mA 1200 mA 900 mA 1200 mA 900 mA 1050 mA	NW-G2 CW-G2	Warm White 3000K, 70 CRI Generation 2 Neutral White 4000K, 70 CRI Generation 2 Cool White 5000K, 70 CRI Generation 2	moun must l separ	Arm Mount (standard) billowing ting kits be ordered ately (See ssories) Slip Fitter Mount (fits to 2 ³/s" (O.D. tenon) Wall mount with surface conduit rear entry permitted Retrofit arm mount kit	4-90 4-270 Type 5	Type 2 Rotated left 90° Rotated right 270° Type 3 Rotated left 90° Rotated right 270° Type 4 Rotated left 90° Rotated right 270° Rotated right 270°	BLC BLC-90	Auto Front Rov Auto Front Rov Rotated left 90 Auto Front Rov Rotated right 2 Back Light Cor rotated at 90° Back Light Cor rotated at 270 LEED Corner Optic Left LEED Corner Optic Right	w, 0° w, 270° ntrol ntrol	120 208 240 277 347 480 UNV HVU	120V 208V 240V 277V 347V 480V 120-277V (50/60Hz) 347-480V (50/60Hz)
Options																

				•				
DD4.18	0-10V External dimming	IMRI3 ¹⁵ Integral with	PCB ^{8,9}	Photocontrol	Fusing So	quare Pole Adapter	Texture	<u>ed</u>
	(for controls by others)	#3 lens		Button	11 Siligle (120, 277, 047 VAO)	ncluded in standard	вк	Black
DCC ^{4,5,6,18}	Dual Circuit Control	IMRI7 ¹⁶ Integral with #7 lens	TLRD5 ^{10,17}	Twist Lock Receptacle	F2 ⁹ Double (208, 240, 480VAC) Pr	roduct	WH	White
FAWS ^{4,5,18} LLC ^{4,6,7,8,18}	Field Adjustable Wattage Selector Integral wireless module	#716115		5 Pin	Pole Mount Fusing	D Terminar block	BZ	Bronze
BL ^{1,4,7,18}	Bi-level functionality		TLRD7 ^{10,17}	Twist Lock	FP1° Single (120, 277, 347VAC) RI	I A ROUNG FOR	DGY	Dark Gray
SRDR ^{4,5,6,8,}	¹⁷ SR driver connected to Zhaga socket			Receptacle	FP2 ⁹ Double (208, 240, 480VAC)	Adapter (fits to 3"- 3.9"	MGY	Medium Gray
			TLRPC ^{9,10,11,17}	7 Pin ' Twist Lock	FP3 ⁹ Canadian Double Pull	O.D. pole)	Custon	ner specified
<u>DynaDimm</u>	er: Automatic Profile Dimming		ILKFC	Receptacle w/	,,	IIS ¹⁴ Internal House	RAL	Specify optional
CS504,8	Safety 50% Dimming, 7 hours			Photocell	Surge Protection (10kA standard)	Side Shield		color or RAL (ex: RAL7024)
CM504.8	Median 50% Dimming, 8 hours				SP2 Increased 20kA		cc	Custom color
CS30 ^{4,8} CM30 ^{4,8}	Safety 30% Dimming, 7 hours Median 30% Dimming, 8 hours							(Must supply color chip for required

- BL-IMRI3/7 equipped with out-boarded sensor housing when voltage is HVU (347-480V)
- 2. Mounts to a 4" round pole with adapter included for square poles.
- 3. Limited to a maximum of 45 degrees aiming above horizontal.
- ${\bf 4.} \ \ {\bf Not\ available\ with\ other\ dimming\ control\ options}.$
- 5. Not available with motion sensor.
- 6. Not available with photocontrol.7. Must specify a motion sensor lens.
- 8. Not available in 347 or 480V
- 9. Must specify input voltage.

- 10. TLRD5, TLRD7 and TLRPC receptacle pins 4 & 5 are capped off when ordered with any of the Dimming controls DD or FAWS or LLC.
- 11. Not available in 480V. Order photocell separately with TLRD5/7.
- 12. Not available with DCC.
- Not available with SF and WS. RPAs provided with black finish standard.
- HIS not available with Type 5, 5W, BLC, BLC-90, BLC-270, LCL or RCL optics.
- 15. Not available with DD, DCC, and FAWS dimming control options.
- 16. Not available with DD, DCC, FAWS and LLC dimming
- 17. When ordering SRDR, controller (by others) to be used on socket must be SR compatible (See specifications for more details). Consult factory for lead time. All 7 pins in NEMA receptacle are connected to SR driver. SRDR not available with TLRDS or TLRPC.
- 18. O-10V dimming driver standard.
- 19. LCL and RCL not available with 48L-1.2A or 64L-1A.









Area luminaire

EcoForm Accessories²¹ (ordered separately, field installed)

Shielding Accessories

FOR F2H & F3H

Footnotes

- 20. Not available with Type 5 or 5W optics
- 21. Consult Signify to confirm whether specific accessories are BAA-compliant.

House Side shield

Standard optic orientation:

HIS-32-H 20 Internal House Side Shield for 32 LEDs (2 modules) HIS-48-H 20 Internal House Side Shield for 48 LEDs (3 modules) $\mbox{HIS-64-H}\ ^{20}$ Internal House Side Shield for 64 LEDs (4 modules)

Optic at 90 or 270 orientation:

HIS-32-V 20 Internal House Side Shield for 32 LEDs (2 modules) HIS-48-V ²⁰ Internal House Side Shield for 48 LEDs (3 modules) HIS-64-V 20 Internal House Side Shield for 64 LEDs (4 modules)

Luminaire Accessories

ECF-BD-G2 ECF-RAM-G2-(F)

Bird deterrent Retrofit Arm mount kit

Slip Fitter Mount (fits to 2 3/8" O.D. tenon)

ECF-SF-G2-(F) ECF-WS-G2-(F) Wall mount with surface conduit rear entry permitted

EcoForm PTF2

(pole top fitter fits 23/8-21/2" OD x 4" depth tenon)

PTF2-ECF-S/L-1-90-(F) 1 luminaire at 90° PTF2-ECF-S/L-2-90-(F) 2 luminaires at 90° PTF2-ECF-S/L-2-180-(F) 2 luminaires at 180° PTF2-ECF-S/L-3-90-(F) 3 luminaires at 90° PTF2-ECF-S/L-4-90-(F) 4 luminaires at 90° PTF2-ECF-S/L-3-120-(F) 3 luminaires at 120°

(F) = Specify finish

EcoForm PTF3

(pole top fitter fits 3-31/2" OD x 6" depth tenon)

PTF3-ECF-S/L-1-90-(F) 1 luminaire at 90° PTF3-ECF-S/L-2-90-(F) 2 luminaires at 90° PTF3-ECF-S/L-2-180-(F) 2 luminaires at 180° PTF3-ECF-S/L-3-90-(F) 3 luminaires at 90° PTF3-ECF-S/L-4-90-(F) 4 luminaires at 90° PTF3-ECF-S/L-3-120-(F) 3 luminaires at 120° EcoForm PTF4

(pole top fitter fits 31/2-4" OD x 6" depth tenon)

PTF4-ECF-S/L-1-90-(F) 1 luminaire at 90° PTF4-ECF-S/L-2-90-(F) 2 luminaires at 90° PTF4-ECF-S/L-2-180-(F) 2 luminaires at 180° PTF4-ECF-S/L-3-90-(F) 3 luminaires at 90° PTF4-ECF-S/L-4-90-(F) 4 luminaires at 90° PTF4-ECF-S/L-3-120-(F) 3 luminaires at 120°

Ready to Go configurations (when ordered with the "RS-" catalog code, the following configurations will ship in 2 weeks):

Catalog Number	12NC
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BZ	912401466002
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-MGY	912401466003
RS-ECF-S-32L-1A-NW-G2-AR-3-UNV-BK	912401534554
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BZ	912401466004
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-MGY	912401466005
RS-ECF-S-32L-1A-NW-G2-AR-4-UNV-BK	912401534555
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BZ	912401466006
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-MGY	912401466007
RS-ECF-S-32L-1A-NW-G2-AR-5-UNV-BK	912401534556
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BZ	912401466008
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-MGY	912401466009
RS-ECF-S-48L-1A-NW-G2-AR-3-UNV-BK	912401534557
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BZ	912401466010
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-MGY	912401466011
RS-ECF-S-48L-1A-NW-G2-AR-4-UNV-BK	912401534558
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BZ	912401466012
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-MGY	912401466013
RS-ECF-S-48L-1A-NW-G2-AR-5-UNV-BK	912401534559
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BZ	912401466014
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-MGY	912401466015

Catalog Number	12NC
RS-ECF-S-64L-1A-NW-G2-AR-3-UNV-BK	912401534560
RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BZ	912401466016
RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-MGY	912401466017
RS-ECF-S-64L-1A-NW-G2-AR-4-UNV-BK	912401534561
RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BZ	912401466018
RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-MGY	912401466019
RS-ECF-S-64L-1A-NW-G2-AR-5-UNV-BK	912401534562
RS-ECF-RAM-G2-DGY	912401466487
RS-ECF-RAM-G2-MGY	912401466488
RS-ECF-RAM-G2-WH	912401466485
RS-ECF-RAM-G2-BZ	912401466486
RS-ECF-RAM-G2-BK	912401466484
RS-HIS-32-H	912401466489
RS-HIS-48-H	912401466491
RS-HIS-64-H	912401466493

Area luminaire

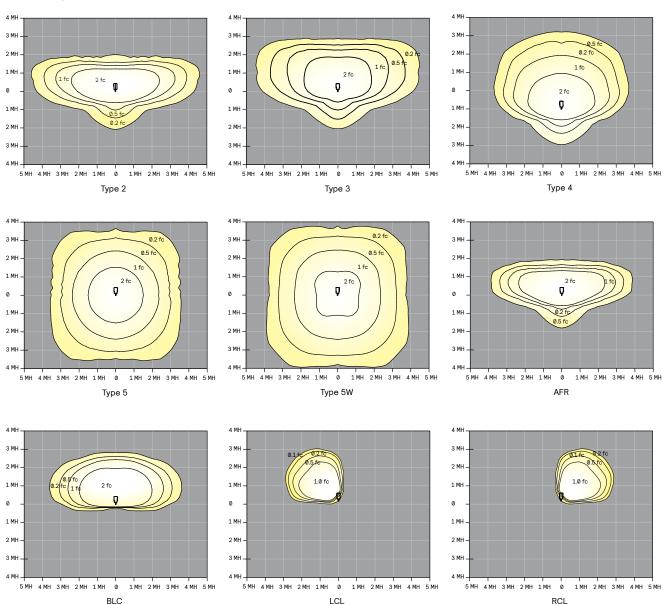
Predicted Lumen Depreciation Data

Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L_{70} hours limited to 6 times actual LED test hours

Ambient Temperature °C	Driver mA	Calculated L ₇₀ Hours	L ₇₀ per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	up to 1200 mA	>100,000 hours	>120,000 hours	>99%

Optical Distributions

Based on configuration ECF-S-48L-1A-NW-G2 (159W) mounted at 20ft.



Area luminaire

3000K LED Wattage and Lumen Values

		LED		Average		Туре 2		Type 3			Type 4		Type 5			Type 5W			
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)												
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,508	B1-U0-G1	138	5,428	B1-U0-G2	136	5,637	B1-U0-G2	141	5,790	B3-U0-G1	145	5,604	B3-U0-G1	140
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,159	B2-U0-G2	129	7,055	B1-U0-G2	127	7,327	B1-U0-G2	132	7,526	B3-U0-G2	135	7,284	B3-U0-G2	131
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,234	B2-U0-G2	127	9,034	B2-U0-G2	124	9,452	B2-U0-G2	130	9,707	B4-U0-G2	133	9,395	B4-U0-G2	129
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,001	B3-U0-G2	123	12,719	B2-U0-G2	120	13,306	B2-U0-G3	126	13,665	B4-U0-G2	129	13,227	B4-U0-G2	125
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,421	B3-U0-G3	119	14,108	B2-U0-G3	116	14,760	B2-U0-G3	121	15,158	B4-U0-G2	125	14,671	B4-U0-G2	121
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,115	B3-U0-G3	127	16,744	B3-U0-G3	124	17,518	B2-U0-G3	130	17,990	B4-U0-G2	133	17,413	B5-U0-G3	129
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	19,381	B3-U0-G3	122	18,960	B3-U0-G3	119	19,836	B3-U0-G4	125	20,372	B5-U0-G3	128	19,717	B5-U0-G3	124
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	21,515	B3-U0-G3	118	21,048	B3-U0-G4	115	22,020	B3-U0-G4	121	22,616	B5-U0-G3	124	21,888	B5-U0-G3	120
ECF-S-64L-900-WW-G2-x	64	900	3000	178	22,652	B3-U0-G3	127	22,161	B3-U0-G4	125	23,185	B3-U0-G4	130	23,810	B5-U0-G3	134	23,045	B5-U0-G3	130
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	25,520	B3-U0-G3	124	24,966	B3-U0-G4	121	26,120	B3-U0-G4	127	26,150	B5-U0-G3	127	25,964	B5-U0-G4	126

		LED		Average		Type AFR			BLC			LCL or RCL	
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-WW-G2-x	32	365	3000	40	5,706	B2-U0-G1	143	3,691	B0-U0-G1	94	2,449	B0-U0-G1	62
ECF-S-32L-530-WW-G2-x	32	530	3000	56	7,417	B2-U0-G1	133	5,005	B0-U0-G2	91	3,183	B0-U0-G1	58
ECF-S-32L-700-WW-G2-x	32	700	3000	73	9,567	B2-U0-G2	131	6,409	B0-U0-G2	89	4,106	B0-U0-G1	57
ECF-S-32L-1A-WW-G2-x	32	1050	3000	106	13,467	B3-U0-G2	128	9,024	B1-U0-G2	87	5,793	B0-U0-G2	56
ECF-S-32L-1.2A-WW-G2-x	32	1200	3000	122	14,939	B3-U0-G2	123	10,010	B1-U0-G2	84	6,426	B0-U0-G2	54
ECF-S-48L-900-WW-G2-x	48	900	3000	135	17,731	B3-U0-G2	131	11,880	B1-U0-G2	89	7,626	B0-U0-G2	57
ECF-S-48L-1A-WW-G2-x	48	1050	3000	159	20,076	B3-U0-G2	127	13,453	B1-U0-G2	86	8,636	B0-U0-G2	55
ECF-S-48L-1.2A-WW-G2-x	48	1200	3000	183	22,288	B3-U0-G2	122	14,934	B1-U0-G3	83			
ECF-S-64L-900-WW-G2-x	64	900	3000	178	23,465	B3-U0-G2	132	15,723	B1-U0-G3	90	10,093	B0-U0-G2	58
ECF-S-64L-1A-WW-G2-x	64	1050	3000	206	26,437	B4-U0-G3	128	17,714	B1-U0-G3	87			

4000K LED Wattage and Lumen Values

		LED		Average		Туре 2			Type 3			Type 4			Type 5			Type 5W		
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)													
ECF-S-32L-365-NW-G2-x	32	365	4000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147	
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138	
ECF-S-32L-700-NW-G2-x	32	700	4000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136	
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132	
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127	
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136	
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131	
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126	
ECF-S-64L-900-NW-G2-x	64	900	4000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137	25,063	B5-U0-G3	141	24,258	B5-U0-G4	136	
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27,526	B5-U0-G3	134	27,330	B5-U0-G4	133	

		LED		Average		Type AFR			BLC			LCL or RCL			
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)		
ECF-S-32L-365-NW-G2-x	32	365	4000	40	6,006	B2-U0-G1	150	3,991	B0-U0-G1	101	2,633	B0-U0-G1	67		
ECF-S-32L-530-NW-G2-x	32	530	4000	56	7,807	B2-U0-G1	140	5,412	B0-U0-G2	99	3,423	B0-U0-G1	62		
ECF-S-32L-700-NW-G2-x	32	700	4000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61		
ECF-S-32L-1A-NW-G2-x	32	1050	4000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60		
ECF-S-32L-1.2A-NW-G2-x	32	1200	4000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58		
ECF-S-48L-900-NW-G2-x	48	900	4000	135	18664,	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62		
ECF-S-48L-1A-NW-G2-x	48	1050	4000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59		
ECF-S-48L-1.2A-NW-G2-x	48	1200	4000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90					
ECF-S-64L-900-NW-G2-x	64	900	4000	178	24,700	B3-U0-G2	139	16,998	B1-U0-G3	97	10,853	B0-U0-G2	62		
ECF-S-64L-1A-NW-G2-x	64	1050	4000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94					

Area luminaire

5000K LED Wattage and Lumen Values

		LED		Average		Type 2			Type 3			Type 4		Type 5			Type 5W		
	Total	Current	Color	System	Lumen	BUG	Efficacy	Lumen	BUG	Efficacy									
Ordering Code	LEDs	(mA)	Temp.	Watts	Output	Rating	(LPW)	Output	Rating	(LPW)									
ECF-S-32L-365-CW-G2-x	32	365	5000	40	5,798	B1-U0-G1	145	5,713	B1-U0-G2	143	5,934	B1-U0-G2	148	6,094	B3-U0-G1	152	5,898	B3-U0-G2	147
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,536	B2-U0-G2	135	7,426	B1-U0-G2	133	7,713	B1-U0-G2	138	7,922	B3-U0-G2	142	7,667	B3-U0-G2	138
ECF-S-32L-700-CW-G2-x	32	700	5000	73	9,720	B2-U0-G2	133	9,509	B2-U0-G2	130	9,949	B2-U0-G2	136	10,218	B4-U0-G2	140	9,889	B4-U0-G2	136
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	13,685	B3-U0-G2	130	13,388	B2-U0-G3	127	14,006	B2-U0-G3	133	14,384	B4-U0-G2	136	13,923	B4-U0-G2	132
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,180	B3-U0-G3	125	14,851	B2-U0-G3	122	15,537	B2-U0-G3	128	15,956	B4-U0-G2	131	15,443	B4-U0-G2	127
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,016	B3-U0-G3	133	17,625	B3-U0-G3	130	18,440	B3-U0-G3	136	18,937	B4-U0-G3	140	18,329	B5-U0-G3	136
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	20,401	B3-U0-G3	129	19,958	B3-U0-G4	126	20,880	B3-U0-G4	132	21,444	B5-U0-G3	135	20,755	B5-U0-G3	131
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	22,647	B3-U0-G3	124	22,156	B3-U0-G4	121	23,179	B3-U0-G4	127	23,806	B5-U0-G3	130	23,040	B5-U0-G3	126
ECF-S-64L-900-CW-G2-x	64	900	5000	178	23,844	B3-U0-G3	134	23,327	B3-U0-G4	131	24,405	B3-U0-G4	137	25063	B5-U0-G3	141	24258	B5-U0-G4	136
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	26,863	B3-U0-G3	130	26,280	B3-U0-G4	128	27,495	B3-U0-G4	134	27526	B5-U0-G3	134	27330	B5-U0-G4	133

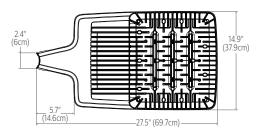
		LED		Average		Type AFR			BLC			LCL or RCL	
Ordering Code	Total LEDs	Current (mA)	Color Temp.	System Watts	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
ECF-S-32L-365-CW-G2-x	32	365	5000	40	6,006	B2-U0-G1	150	3,991	B0-U0-G1	101	2,633	B0-U0-G1	67
ECF-S-32L-530-CW-G2-x	32	530	5000	56	7,807	B2-U0-G1	140	5,412	B0-U0-G2	99	3,423	B0-U0-G1	62
ECF-S-32L-700-CW-G2-x	32	700	5000	73	10,070	B2-U0-G2	138	6,930	B0-U0-G2	96	4,415	B0-U0-G1	61
ECF-S-32L-1A-CW-G2-x	32	1050	5000	106	14,176	B3-U0-G2	134	9,756	B1-U0-G2	94	6,229	B0-U0-G2	60
ECF-S-32L-1.2A-CW-G2-x	32	1200	5000	122	15,725	B3-U0-G2	129	10,822	B1-U0-G2	90	6,910	B0-U0-G2	58
ECF-S-48L-900-CW-G2-x	48	900	5000	135	18,664	B3-U0-G2	138	12,843	B1-U0-G2	96	8,200	B0-U0-G2	62
ECF-S-48L-1A-CW-G2-x	48	1050	5000	159	21,133	B3-U0-G2	133	14,544	B1-U0-G3	93	9,286	B0-U0-G2	59
ECF-S-48L-1.2A-CW-G2-x	48	1200	5000	183	23,461	B3-U0-G2	128	16,145	B1-U0-G3	90			
ECF-S-64L-900-CW-G2-x	64	900	5000	178	24,700	B3-U0-G2	139	16,998	B1-U0-G3	97	10,853	B0-U0-G2	62
ECF-S-64L-1A-CW-G2-x	64	1050	5000	206	27,828	B4-U0-G3	135	19,150	B1-U0-G3	94			

Area luminaire

Dimensions

Standard Arm (AR)

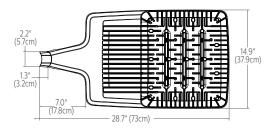
Weight: 22 Lbs (9.9 Kg) EPA: 0.21ft² (.019m²)





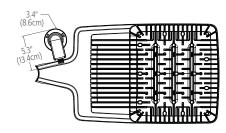
Retrofit Arm (RAM)

Weight: 24 Lbs (10.9 Kg) EPA: 0.24ft2 (.022m2)





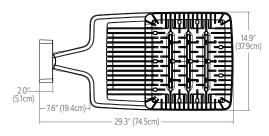
Outboard IMR-HVU sensor





Wall (WS)

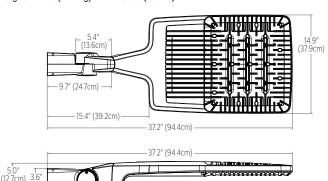
Weight: 27 Lbs. (12. 2Kg)EPA: 0.27ft² (.025m²)



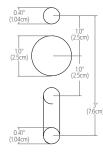


Slip fitter (SF)

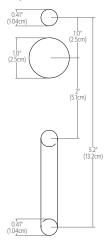
Weight: 27 Lbs (12.2 Kg) EPA: 0.33ft2 (.031m2)



Standard Arm (AR) drill pattern



Retrofit Arm (RAM) drill pattern

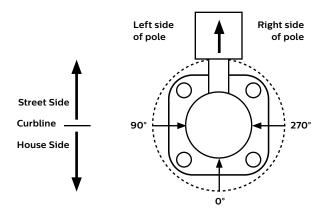


Area luminaire

Optical Orientation Information

Standard Optic Position

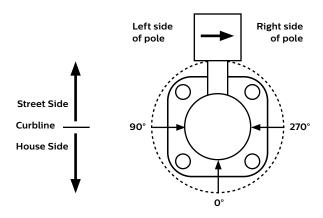
Luminaires ordered with asymmetric optical systems in the standard optic position will have the optical system oriented as shown below:



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Right (270°) Optic Position

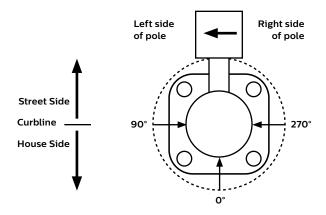
Luminaires ordered with optical systems in the Optic Rotated Right (270°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Optic Rotated Left (90°) Optic Position

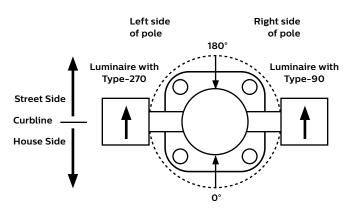
Luminaires ordered with optical systems in the Optic Rotated Left (90°) optic position will have the optical system oriented as shown below (Type 5 and 5W optics are not available with factory set rotatable optics):



Note: The hand hole will normally be located on the pole at the 0° point.

Twin Luminaire Assemblies with Type-90/Type-270 Rotated Optical Systems

Twin luminaire assemblies installed with rotated optical systems are an excellent way to direct light toward the interior of the site (Street Side) without additional equipment. It is important, however, that care be exercised to insure that luminaires are installed in the proper location.



Luminaires with Optic Rotated Right (270°) are installed on the LEFT Side of Pole Luminaires with Optic Rotated Left (90°) are installed on the RIGHT Side of Pole

Note: The hand hole location will depend on the drilling configuration ordered for the pole.

Area luminaire

Specifications

Housing

One-piece die cast aluminum housing with integral arm and separate, self-retained hinged, one-piece die cast door frame. Luminaire housing rated to IP65, tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

Luminaire is tested and rated 3G over 100,000 cycles conforming to standards set forth by ANSI C136.31–2018. Testing includes vibration in three axes, all performed on the same luminaire.

Light engine

Light engine comprises of a module of 16-LED aluminum metal clad board fully sealed with optics offered in multiples of 2, 3, and 4 modules or 32, 48, and 64 LEDs. Module is RoHS compliant. Color temperatures: 3000K +/-125K, 4000K, 5000K +/- 200K. Minimum CRI of 70. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 152 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Type 2, 3, 4, 5, 5W, and AFR distributions available. Internal Shield option mounts to LED optics and is available with Type 2, 3, 4, and AFR distributions, including a dedicated BLC, LCL, and RCL optics to provide the best backlight control possible for those stringent requirements around property lines. Types 2, 3, 4, AFR, and BLC when specified and used as rotated, are factory set only. Performance tested per LM-79 and TM-15 (IESNA) certifying its photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to 4" O.D. round poles. Can also be used with 5" O.D. poles. Square pole adapter included with every luminaire. Round Pole Adapter (RPA) required for 3-3.9" poles. EcoForm features a retrofit arm kit. When specified with the retrofit arm (RAM) option, EcoForm seamlessly simplifies site conversions to LED by eliminating the need for additional pole drilling on most existing poles. RAM will be boxed separately. Also optional are slipfitter and wall mounting accessories. Note that only fixed mounts (AR, RAM, WS) are required to meet IDA compliance. SF mounting will not meet IDA.

Control options

0-10V dimming (DD): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Dual Circuit Control (DCC): Luminaire equipped with the ability to have two separate circuits controlling drivers and light engines independently. Permits separate switching of separate modules controlled by use of two sets of leads, one for each circuit. Not recommended to be used with other control options, motion response, or photocells.

Sensor Ready Zhaga Socket Connector (SRDR): Product equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic diming profile schedule. Automatic dimming profile scheduled with the following settings:

- · CS50/CS30: Security for 7 hours night duration (Ex., 11 PM 6 AM)
- CM50/CM30: Median for 8 hours night duration (Ex., 10 PM 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options.

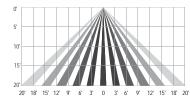
Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position at the lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

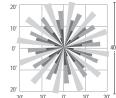
FAWS Position	Percent of Typical Lumen Output
1	25%
2	50%
3	55%
4	65%
5	75%
6	80%
7	85%
8	90%
9	95%
10	100%

Note: Typical value accuracy +/- 5%

Wireless system (LLC): Optional wireless controller integral to luminaire ready to be connected to a Limelight system (sold by others). The system allows you to wirelessly manage the entire site, independent lighting groups or individual luminaires while on-site or remotely. Based on a high-density mesh network with an easy to use web-based portal, you can conveniently access, monitor and manage your lighting network remotely. Wireless controls can be combined with site and area, pedestrian, and parking garage luminaires as well, for a completely connected outdoor solution. Equipped with motion response with #3 lens for 8-25' mounting heights. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall.

LLC wireless controller with #3 lens





Motion response options

Bi-Level Infrared Motion Response (BL-IMRI): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required. This can also be done with FSIR-100 Wireless Remote Programming Tool (contact Technical Support for details).

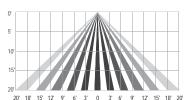
Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

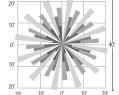
Area luminaire

Specifications

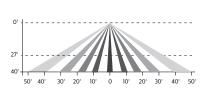
Infrared Motion Response Lenses (IMRI3/IMRI7): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #3 (IMRI3) is designed for mounting heights up to 20' with a 40' diameter coverage area. Lens #7 is designed for higher mounting heights up to 40' with larger coverage areas up to 100' diameter coverage area. See charts for approximate detection patterns:

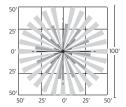
IMRI3 Luminaire or remote mount controller with #3 lens





IMRI7 Luminaire or remote mount controller with #7 lens





Electrical

Twist-Lock Receptacle (TLRD5/TLRD7/ TLRPC): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twistlock receptacle (TLRD7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLRPC), the receptacle used is a 5-pin receptacle, so pins 6 and 7 are not available (no SR driver). 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Driver: Driver efficiency (>90% standard). 120–480V available (restrictions apply). Open/short circuit protection. All drivers are 0–10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Listing

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). Most EcoForm configurations are qualified under Premium and Standard DesignLights Consortium® categories. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult factory for specs on optional or custom colors.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warrant

EcoForm luminaires feature a 5-year limited warranty
See signify.com/warranties for complete details and exclusions.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.



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Signify North America Corporation 200 Franklin Square Drive, Somerset, NJ 08873 Telephone 855-486-2216 Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 2S3 Telephone 800-668-9008

Preliminary Engineering Plans for

STARLING SENIOR APARTMENTS

STANDARD SYMBOLS

EXISTING STORM SEWER SANITARY SEWER COMBINED SEWER FORCEMAIN DRAINTILE WATER MAIN ELECTRIC TELEPHONE OVERHEAD WIRES SANITARY MANHOLE STORM MANHOLE CATCH BASIN STORM INLET HAY BALES VALVE IN VAULT VALVE IN BOX FIRE HYDRANT BUFFALO BOX FLARED END SECTION STREET LIGHT SUMMIT / LOW POIN RIM ELEVATION INVERT ELEVATION DITCH OR SWALE DIRECTION OF FLOW ==== OVERFLOW RELIEF SWALE 1 FOOT CONTOURS ========= CURB AND GUTTER ZZZZZZREVERSE CURB AND GUTTER SIDEWALK DETECTABLE WARNINGS EASEMENT LINE SETBACK LINE MAIL BOX TRAFFIC SIGNAL POWER POLE GUY WIRE GAS VALVE HANDHOLE ELECTRICAL EQUIPMENT © I TELEPHONE EQUIPMENT CHAIN-LINK FENCE 792.8 G SPOT ELEVATION \sim BRUSH/TREE LINE DECIDUOUS TREE WITH TRUNK DIA. IN INCHES (TBR) CONIFEROUS TREE WITH HEIGHT IN FEET (TBR) SILT FENCE RETAINING WALL

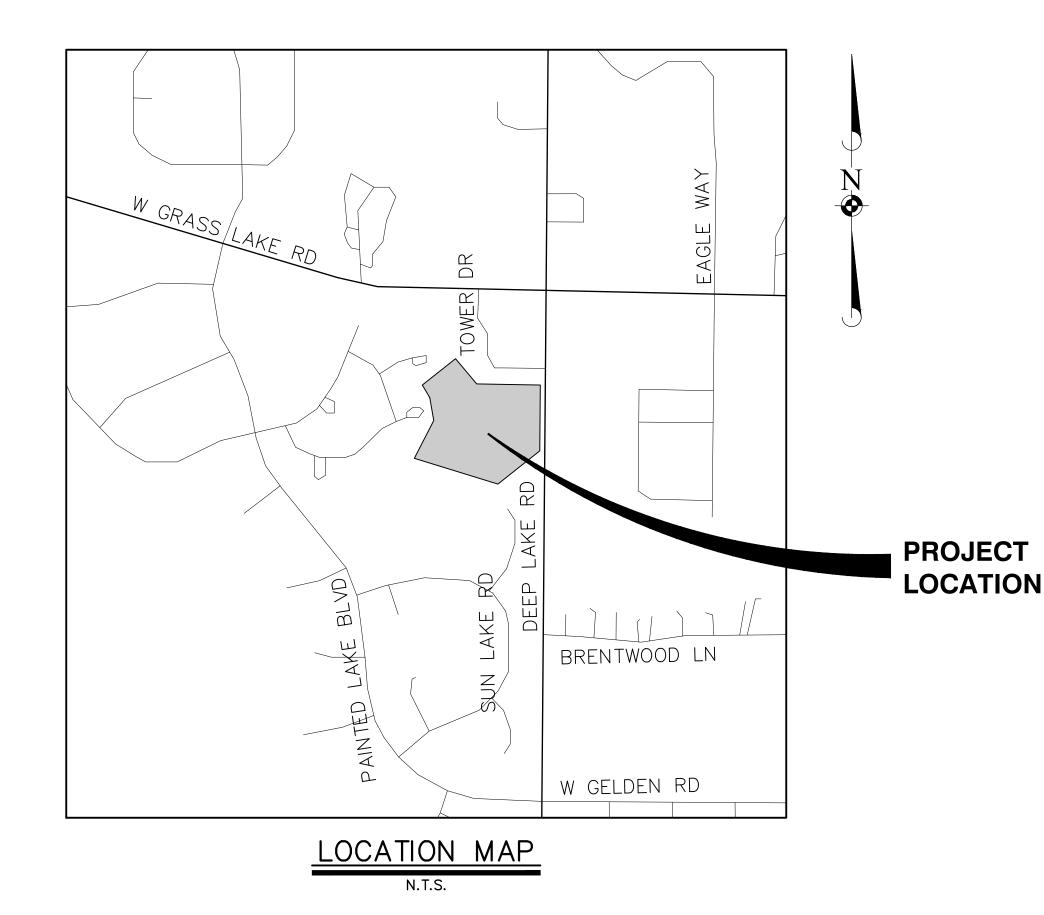
ABBREVIATIONS

WETLAND

/··· **/**

ADJ ADJUST F/L FLOW LINE R.O.W. RIGHT-OF-WAY AGG. AGGREGATE FM FORCE MAIN RCP REINFORCED CONCRETE PIP ARCH ARCHITECT G GROUND REM REMOVAL B.A.M. BITUMINOUS AGGREGATE MIXTURE G/F GRADE AT FOUNDATION REV REVERSE B-B BACK TO BACK GW GUY WIRE RR RAILFOAD B/C BACK OF CURB HDWL HEADWALL RT RIGHT B/P BOTTOM OF PIPE HH HANDHOLE SAN SANITARY B/P BOTTOM OF PIPE HH HANDHOLE SAN SANITARY B/B BACK OF WALK HWL HIGH WATER LEVEL SF SQUARE FOOT B-BOX BUFFALO BOX HYD HYDRANT SHLD. SHOULDER BIT. BITUMINOUS INL INLET SL STREET LIGHT BIT. BITUMINOUS INL INLET BE BENCHMARK INV INVERT SMH SANITARY MANHOLE B.O. BY OTHERS IP IRON PIPE B.O. BY OTHERS IP IRON PIPE C.E. COMMERCIAL ENTRANCE LT LEFT CB CATCH BASIN HYD. MAXIMUM STD STANDARD G. CENTERLINE MB MAILBOX SW SIDEWALK CMP CORRUGATED METAL PIPE M/E MEET EXISTING SY SQUARE YARDS CONTROL CONTROL CON CONCRETE NIM INN. MINIMUM CON CLEANOUT MIN. MINIMUM CON CLEANOUT MIN. MINIMUM TO DE REMOVED CON CLEANOUT NIM. NORMAL WATER LEVEL TA'R D DITCH PC POINT OF CURVATURE DIP DUCTILLE IRON PIPE DIP DUCTILLE IRON PIPE DIP DUCTILLE IRON PIPE DIP DUCTILLE IRON WATER MAIN PI POINT OF CURVATURE TEMP TEMPORARY TO PO FUNDATION TO POF WALK TO PO FUNDATION TO POF WALK TEMPORARY TEMPORATION TO PERTICAL CURVATURE WA WATER LEVEL WA WATER LEVEL WA WATER LEVEL WA WATER LEVEL WA WATER MAIN WATER LEVEL WA WATER MAIN WATER LEVEL
EX. EXISTING PVI POINT OF VERTICAL INTERSECTION WM WATER MAIN F.O. FIELD ENTRANCE PVT POINT OF VERTICAL TANGENCY F-F FACE TO FACE P PAVEMENT

0 DEEP LAKE ROAD VILLAGE OF LAKE VILLA, ILLINOIS



INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET
·	
2	EXISTING CONDITIONS AND DEMOLITION PLAN
3	SITE DIMENSIONAL AND PAVING PLAN
4	GRADING PLAN
5	UTILITY PLAN- NORTH
6	UTILITY PLAN- SOUTH
7	SOIL EROSION AND SEDIMENT CONTROL PLAN

THE BOUNDARY LINES AND TOPOGRAPHY FOR THIS PROJECT ARE BASED ON A SURVEY PREPARED BY WT GROUP, LLC DATED JANUARY 9, 2019. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY MANHARD CONSULTING AND THE CLIENT IN WRITING OF ANY DIFFERING CONDITIONS. MANHARD CONSULTING HAS NOT VERIFIED THIS SURVEY AND IS NOT RESPONSIBLE FOR THE ACCURACY OF THE SURVEY BOUNDARY AND/OR TOPOGRAPHY.

LINCOLN AVENUE CAPITAL 401 WILSHIRE BLVD SUITE 1070 SANTA MONICA, CA 90401 PH: 424-222-8253



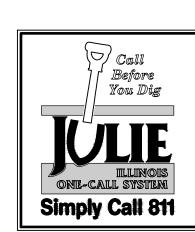
BENCHMARKS:

SITE BENCHMARK #1 - SET CROSS ON ARROW BOLT OF HYDRANT LOCATED APPROXIMATELY 23.83' N OF GRASS LAKE ROAD AND 737.5' W OF DEEP LAKE ROAD, AS SHOWN ON SHEET SUR-1. ELEVATION=800.95' (NAVD88)

SITE BENCHMARK #2 - SET CROSS ON ARROW BOLT OF HYDRANT LOCATED APPROXIMATELY 2.3' N OF TOWER DRIVE AND 214.4' W OF DEEP LAKE ROAD, AS SHOWN ON SHEET SUR-4. ELEVATION=814.68' (NAVD88)

SITE BENCHMARK #3 - SET RAILROAD SPIKE IN UTILITY POLE LOCATED APPROXIMATELY 435.7'S OF TOWER DRIVE AND 19.9' W OF DEEP LAKE ROAD, AS SHOWN ON SHEET SUR-6. ELEVATION=809.61' (NAVD88)

SITE BENCHMARK #4 - SET CROSS ON SOUTHWEST BOLT AT TOP OF HYDRANT LOCATED APPROXIMATELY 22.9' I OF GRASS LAKE ROAD AND 137.8' W OF DEEP LAKE ROAD, AS SHOWN ON SHEET SUR-2. ELEVATION=807.34' (NAVD88)



	<u>UTILITY C</u>	<u>ONTACTS</u>
	ELECTRIC	<u>WATER</u>
	COMED	VILLAGE OF LAKE VILLA
	(630) 576-7094	(847) 356-6100 CONTACT: GLENN MCCOLLUM
.	GAS	TELEPHONE
	NICOR GAS	AT&T DISTRIBUTION
	(630) 388–2362	(800) 288-2020
	<u>SEWER</u> VILLAGE OF LAKE VILLA	
	(847) 356-6100 CONTACT: GLENN MCCOLLUM	

ST PROJ. MGR.: MDE 02-06-23 <u>N.T.S.</u>

APARTMENT

SENIOR

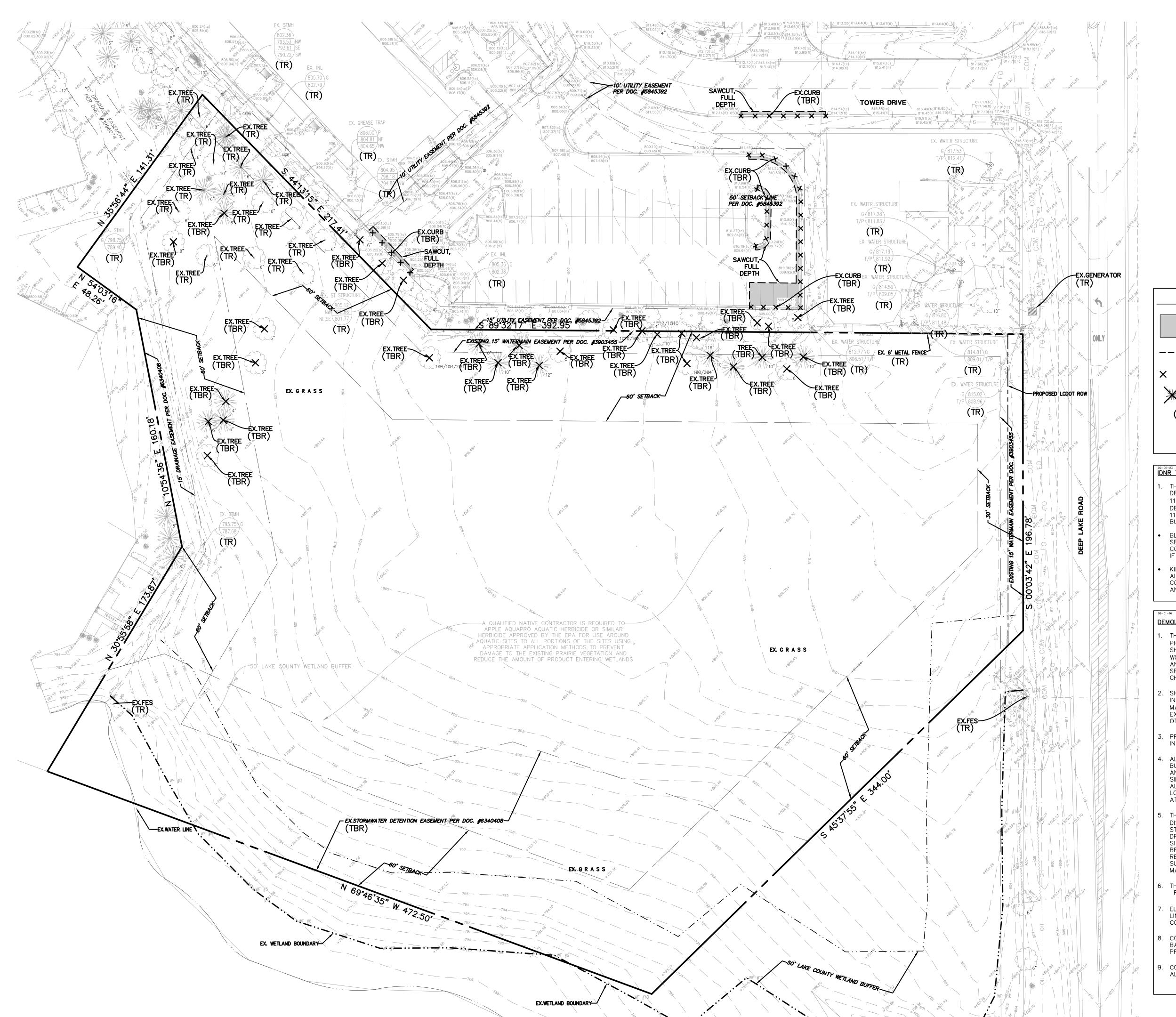
TARLING

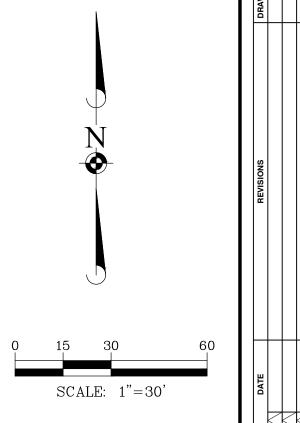
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VILL

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MANHARD CONSULTING, LTD. IS NOT RESPONSIBLE FOR THE SAFETY OF ANY PARTY AT OR ON THE CONSTRUCTION SITE. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND ANY OTHER PERSON OR ENTITY PERFORMING WORK OR SERVICES. NEITHER THE OWNER NOR ENGINEER ASSUMES ANY RESPONSIBILITY FOR THE JOB SITE SAFETY OF PERSONS ENGAGED IN THE WORK OR THE MEANS OR METHODS OF CONSTRUCTION.





DEMOLITION LEGEND

BITUMINOUS PAVEMENT AND BASE TO BE REMOVED

---- SAWCUT LINE

FENCE, RETAINING WALL, RAILROAD TIES, X X POLES, CURB AND GUTTER, ETC. TO BE REMOVED

TO BE REMOVED

IDNR THREATENED AND ENDANGERED SPECIES NOTES:

- THE CONTRACTOR SHALL FOLLOW ALL RECOMMENDATIONS IN THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES ECOCAT REVIEW CONDUCTED ON 11-10-2022 IDNR PROJECT NUMBER 2306326 AS PUBLISHED IN THE "WETLAND DELINEATION REPORT" PUBLISHED BY GARY R. WEBER AND ASSOCIATES DATED 11-22-2022 AND REVISED 02-03-2023. THESE RECOMMENDATIONS INCLUDE BUT ARE NOT LIMITED TO
- BLANDINGS TURTLE: CONSTRUCTION SHOULD BE COMPLETED IN INACTIVE SEASON FROM NOVEMBER 1-MARCH 1. EXCLUSIONARY FENCING AROUND THE CONSTRUCTION AREA AND DAILY CHECKS FOR TURTLES SHOULD BE INITIATED IF TIME FRAME CANNOT BE MET.
- KING RAIL AND LEAST BITTERN: 50-FT BUFFER SHOULD BE MAINTAINED ON ALL WETLANDS, AND IF POSSIBLE ALL WORK NEAR WETLANDS SHOULD BE COMPLETED BETWEEN SEPTEMBER 30-APRIL 1 TO AVOID THE PRIME NESTING AND FLEDGING SEASON

DEMOLITION NOTES:

- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING FOR ALL FEES AND
- SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FEATURES INDICATED TO REMAIN, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
- PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE
- ALL EXISTING UTILITY LINES AND CONDUITS LOCATED UNDER PROPOSED BUILDINGS SHALL BE REMOVED AND PROPERLY BACKFILLED. ALL UTILITY LINES AND CONDUITS LOCATED UNDER DRIVES, ON-SITE ROADS, PARKING LOTS OR SIDEWALKS SHALL BE FILLED WITH A FLOWABLE BACKFILL AND END PLUGGED. ALL EXISTING STRUCTURES SHALL BE REMOVED. ALL EXISTING UTILITY LINES LOCATED UNDER LANDSCAPE AREAS SHALL BE LEFT IN PLACE AND PLUGGED AT ALL STRUCTURES.
- THE CONTRACTOR IS RESPONSIBLE FOR DEMOLITION, REMOVAL AND LAWFUL DISPOSAL (IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES) OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THESE PLANS CAN BE CONSTRUCTED. ALL DEMOLITION WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC CABLE AND/OR GAS LINES NEEDING TO BE REMOVED SHALL BE COORDINATED BY THE CONTRACTOR WITH THE AFFECTED UTILITY COMPANY.
- CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, AND OTHER APPROPRIATE BEST MANAGEMENT
- . CONTINUOUS ACCESS SHALL BE MAINTAINED FOR SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION.

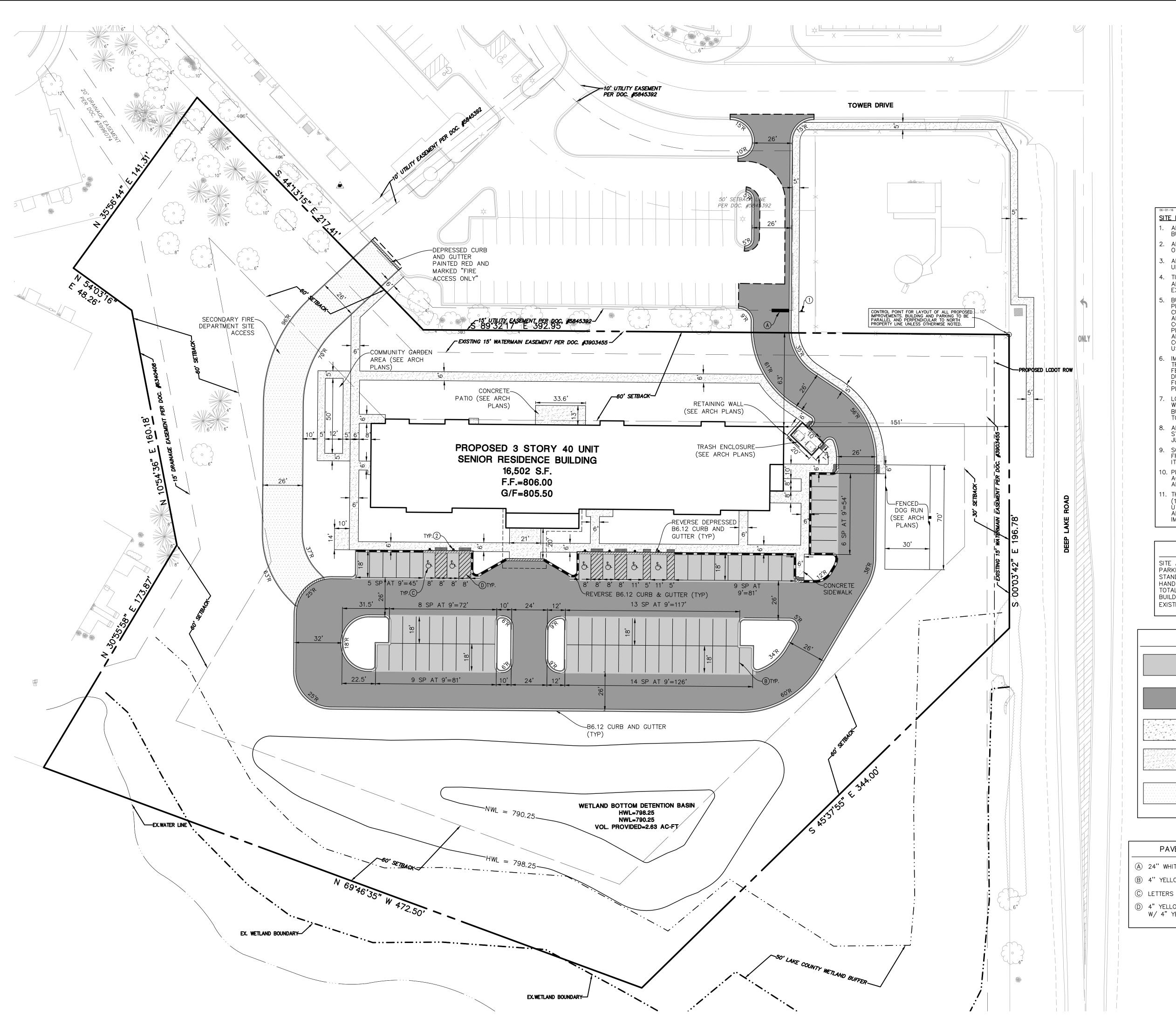
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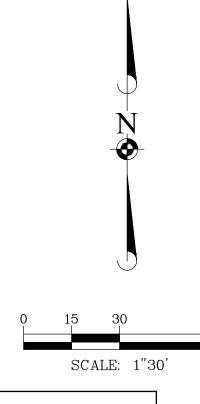
SENIOR

LAKE

PROJ. MGR.: MDE

02-06-23 1"=30" SCALE:





SITE DIMENSIONAL AND PAVING NOTES:

- ALL DIMENSIONS ARE FACE OF CURB TO FACE OF CURB OR BUILDING FOUNDATION UNLESS NOTED OTHERWISE. 2. ALL PROPOSED CURB AND GUTTER SHALL BE B6.12 UNLESS OTHERWISE NOTED.
- ALL CURB RADII SHALL BE 3' MEASURED TO FACE OF CURB UNLESS NOTED OTHERWISE.
- TIE ALL PROPOSED CURB AND GUTTER TO EXISTING CURB AND GUTTER WITH 2-#6 BARS x 18" LONG DOWELED INTO EXISTING CURB.
- BUILDING DIMENSIONS AND ADJACENT PARKING HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION. BUILDING DIMENSIONS SHOWN SHOULD NOT BE USED FOR CONSTRUCTION LAYOUT OF BUILDING.
- IMPROVEMENTS ADJACENT TO BUILDING, IF SHOWN, SUCH AS TRUCK DOCK, RETAINING WALLS, SIDEWALKS, CURBING, FENCES, CANOPIES, RAMPS, HANDICAP ACCÉSS, PLANTERS, DUMPSTERS, AND TRANSFORMERS ETC. HAVE BEEN SHOWN FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS, SPECIFICATIONS AND DETAILS.
- LOCATION OF PRIVATE SIDEWALKS SHALL BE COORDINATED WITH PROPOSED DOORWAY. CONTRACTOR TO VERIFY ACTUAL BUILDING PLAN LOCATIONS WITH ARCHITECT/DEVELOPER PRIOR TO CONSTRUCTING THE SIDEWALKS.
- ALL ROADWAY AND PARKING LOT SIGNAGE, STRIPING, SYMBOLS, ETC. SHALL BE IN ACCORDANCE WITH LATEST JURISDICTIONAL GOVERNMENTAL ENTITY DETAILS.
- SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
- 10. PROVIDE DEPRESSED CURB AND RAMP AT ALL HANDICAP ACCESSIBLE SIDEWALK AND PATH LOCATIONS PER FEDERAL AND STATE STANDARDS.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE
 UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES
 APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.

SITE DATA

SITE AREA PARKING REQUIRED STANDARD PARKING PROVIDED HANDICAP PROVIDED TOTAL PARKING PROVIDED BUILDING AREA

16,502 S.F. EXISTING ZONING (SB) SUBURBAN BUSINESS

PAVEMENT LEGEND

STANDARD DUTY PAVEMENT
BITUMINOUS SURFACE COURSE, HOT-MIX ASPHALT, MIX D, N50 BITUMINOUS BINDER COURSE, HOT-MIX ASPHALT, IL-19, N50 AGGREGATE BASE COURSE, TYPE B

64 SPACES

6 SPACES 70 SPACES

227,068 S.F. (5.21 ACRES) 65 SPACES

HEAVY DUTY PAVEMENT
BITUMINOUS SURFACE COURSE, HOT-MIX ASPHALT, MIX D, N50 BITUMINOUS BINDER COURSE, HOT-MIX ASPHALT, IL-19, N50 AGGREGATE BASE COURSE, TYPE B

8" PORTLAND CEMENT CONCRETE PAVEMENT W/ 6 X 6 W1.4 WWF 4" COMPACTED AGGREGATE BASE, TYPE B

CONCRETE SIDEWALK 5" PORTLAND CEMENT CONCRETE 4" COMPACTED AGGREGATE BASE COURSE, TYPE B

GRASSCRETE PAVEMENT

CONCRETE PAVEMENT

PAVEMENT MARKING LEGEND

- (A) 24" WHITE STOP BAR
- B 4" YELLOW LINE
- © LETTERS AND SYMBOLS PAVEMENT MARKINGS
- (D) 4" YELLOW DIAGONAL AT 45" SPACED 2' O.C. W/ 4" YELLOW BORDER

SIGN LEGEND

(1) R1-1 STOP SIGN

2 R7-8 HANDICAP PARKING SIGN ON BOLLARD

> PROJ. MGR.: MDE 02-06-23 <u>1"=30'</u> SCALE:

APARTMENT

SENIOR

STARLING

VILLA, ILLINOIS

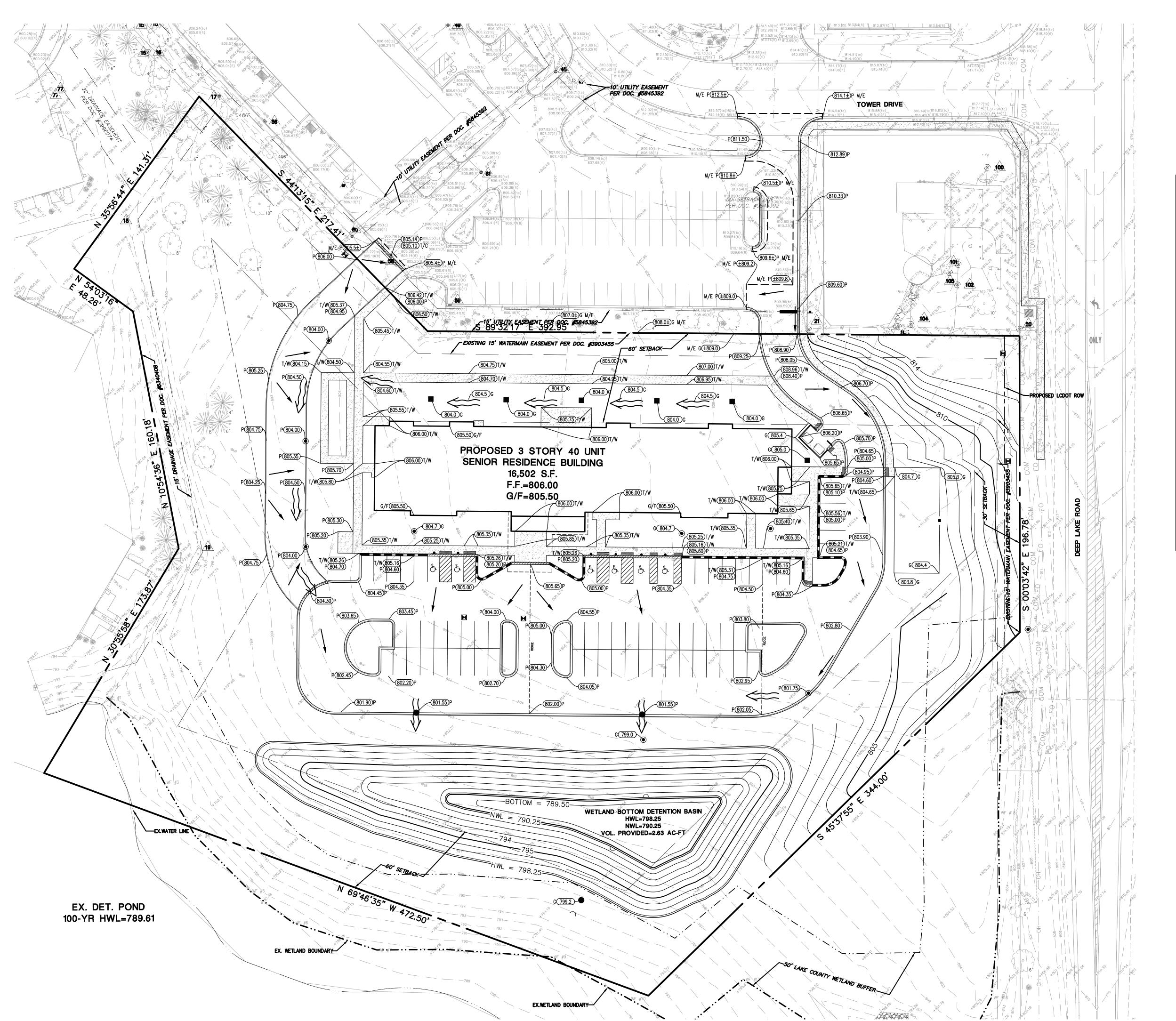
LAKE

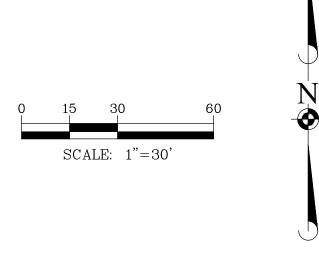
AND

DIMENSIONAL

SITE

SHEET LAC.LVIL01





GRADING NOTES:

IMPROVEMENT.

- RETAINING WALL DESIGN TO BE PROVIDED BY OTHERS.
- . PAVEMENT SLOPES THROUGH HANDICAP ACCESSIBLE PARKING AREAS SHALL BE 2.00% MAXIMUM IN ANY DIRECTION.
- ALL HANDICAP RAMPS SHALL BE CONSTRUCTED WITH A MAXIMUM CROSS SLOPE OF 2.00% OR LESS.
- CONTRACTOR SHALL REFER TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN AND DETAILS FOR CONSTRUCTION SCHEDULING AND EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS.

MEET EXISTING GRADE AT PROPERTY LIMITS UNLESS NOTED

- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE
 UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES
 APPEAR TO BE IN CONFLICT WITH THE PROPOSED
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- . IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITION OR BETTER.
- 9. ALL UNPAVED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 6 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH GOVERNING SPECIFICATIONS UNTIL A HEALTHY STAND OF VEGETATION IS OBTAINED.
- 10. EXISTING TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS AS PREPARED BY WT GROUP, LLC ON JANUARY 9, 2019. CONTRACTOR SHALL FIELD CHECK EXISTING ELEVATIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THEN THE CONTRACTOR SHALL SUPPLY, AT THEIR EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR TO THE OWNER FOR REVIEW.
- TRANSITIONS FROM DEPRESSED CURB TO FULL HEIGHT CURB SHALL BE TAPERED AT 2H: 1V UNLESS OTHERWISE NOTED.

GRADING P	LAN LEGEND
764	PROPOSED 1 FOOT CONTOURS
792.8 G	PROPOSED SPOT ELEVATION
F.F.	PROPOSED FINISHED FLOOR ELEVATION
G/F	PROPOSED GRADE AT FOUNDATION
Р	PROPOSED PAVEMENT ELEVATION
T/C	PROPOSED TOP OF CURB
T/W	PROPOSED TOP OF WALK
T/WALL	PROPOSED TOP OF WALL
M/E	MEET EXISTING
G	PROPOSED GROUND GRADE OR GROUND AT BASE OF RETAINING WALL
~~	PROPOSED DITCH OR SWALE
─	PROPOSED DIRECTION OF FLOW
	OVERFLOW RELIEF SWALE
RIDGE	PROPOSED RIDGE LINE
(0.5)	PROPOSED DEPTH OF PONDING
→ →	RETAINING WALL
©	PROPOSED SWALE LOW POINT
S	PROPOSED SWALE SUMMIT

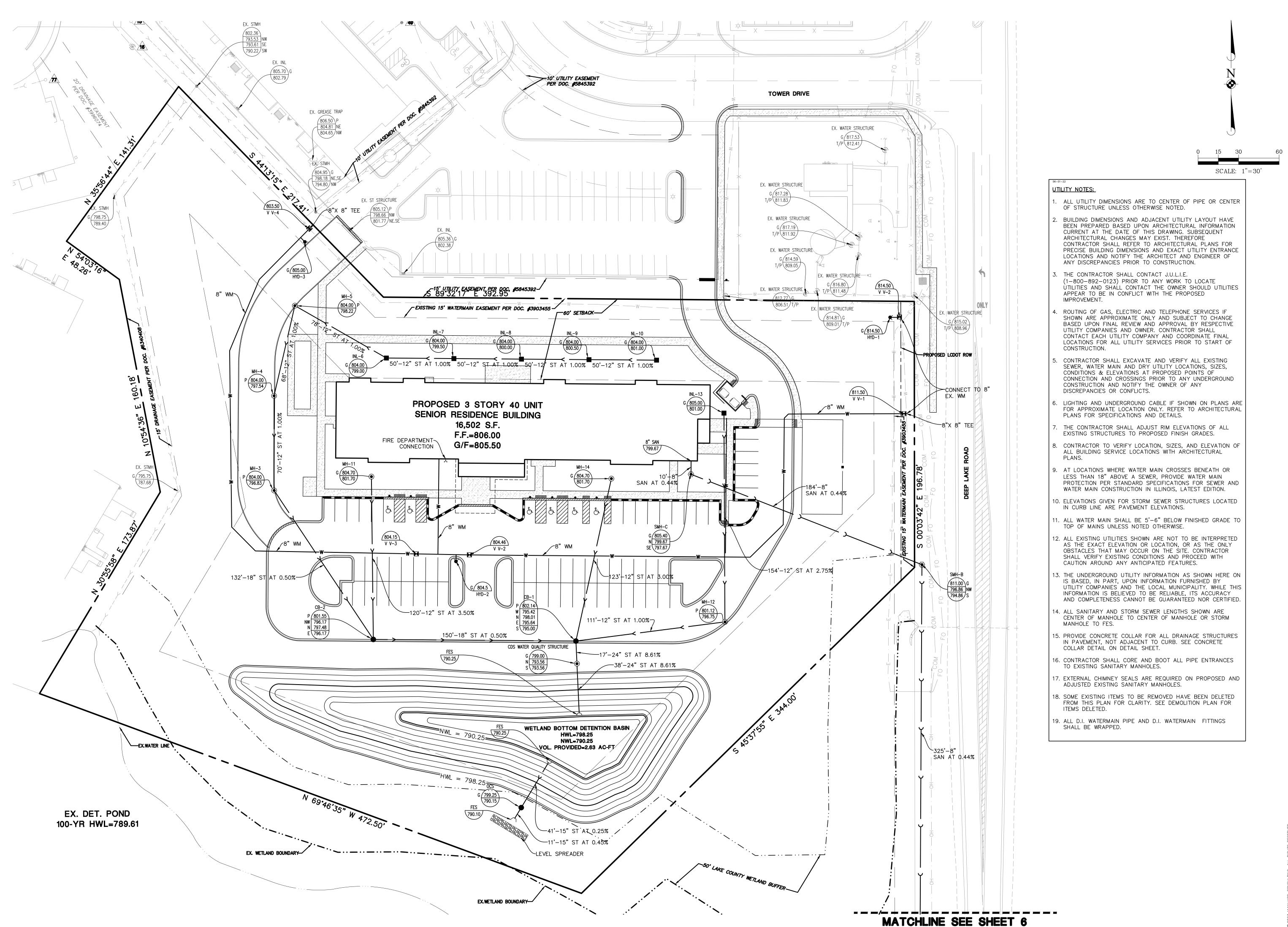
DETENTION BASIN	
HWL NWL DET, VOLUME PROVIDED	798.25 790.25 2.63 ACRF—FFFT
100 YEAR RELEASE RATE	0.65 CFS

SENIOR APARTMENT

STARLING

LAKE VILLA, ILLINOIS

PROJ. MGR.: MDE 02-06-23 <u>1"=30'</u>



ILLINOIS VILLA, LAKE

SENIOR

PROJ. MGR.: MDE 02-06-23 <u>1"=30'</u> SCALE:

LAC.LVIL01

SCALE: 1"=30'

UTILITY NOTES:

- ALL UTILITY DIMENSIONS ARE TO CENTER OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- BUILDING DIMENSIONS AND ADJACENT UTILITY LAYOUT HAVE BEEN PREPARED BASED UPON ARCHITECTURAL INFORMATION CURRENT AT THE DATE OF THIS DRAWING. SUBSEQUENT ARCHITECTURAL CHANGES MAY EXIST. THEREFORE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR PRECISE BUILDING DIMENSIONS AND EXACT UTILITY ENTRANCE LOCATIONS AND NOTIFY THE ARCHITECT AND ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) PRIOR TO ANY WORK TO LOCATE ÙTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT.
- ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES IF SHOWN ARE APPROXIMATE ONLY AND SUBJECT TO CHANGE BASED UPON FINAL REVIEW AND APPROVAL BY RESPECTIVE UTILITY COMPANIES AND OWNER. CONTRACTOR SHALL CONTACT EACH UTILITY COMPANY AND COORDINATE FINAL LOCATIONS FOR ALL UTILITY SERVICES PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL EXCAVATE AND VERIFY ALL EXISTING SEWER, WATER MAIN AND DRY UTILITY LOCATIONS, SIZES, CONDITIONS & ELEVATIONS AT PROPOSED POINTS OF CONNECTION AND CROSSINGS PRIOR TO ANY UNDERGROUND CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
- LIGHTING AND UNDERGROUND CABLE IF SHOWN ON PLANS ARE FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR SHALL ADJUST RIM ELEVATIONS OF ALL EXISTING STRUCTURES TO PROPOSED FINISH GRADES.
- B. CONTRACTOR TO VERIFY LOCATION, SIZES, AND ELEVATION OF ALL BUILDING SERVICE LOCATIONS WITH ARCHITECTURAL
- 9. AT LOCATIONS WHERE WATER MAIN CROSSES BENEATH OR LESS THAN 18" ABOVE A SEWER, PROVIDE WATER MAIN PROTECTION PER STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.
- 10. ELEVATIONS GIVEN FOR STORM SEWER STRUCTURES LOCATED IN CURB LINE ARE PAVEMENT ELEVATIONS.
- 11. ALL WATER MAIN SHALL BE 5'-6" BELOW FINISHED GRADE TO TOP OF MAINS UNLESS NOTED OTHERWISE.
- 12. ALL EXISTING UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT ELEVATION OR LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
- 13. THE UNDERGROUND UTILITY INFORMATION AS SHOWN HERE ON IS BASED, IN PART, UPON INFORMATION FURNISHED BY UTILITY COMPANIES AND THE LOCAL MUNICIPALITY. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, ITS ACCURACY AND COMPLETENESS CANNOT BE GUARANTEED NOR CERTIFIED.
- 14. ALL SANITARY AND STORM SEWER LENGTHS SHOWN ARE CENTER OF MANHOLE TO CENTER OF MANHOLE OR STORM MANHOLE TO FES.
- 15. PROVIDE CONCRETE COLLAR FOR ALL DRAINAGE STRUCTURES IN PAVEMENT, NOT ADJACENT TO CURB. SEE CONCRETE COLLAR DETAIL ON DETAIL SHEET.
- 16. CONTRACTOR SHALL CORE AND BOOT ALL PIPE ENTRANCES TO EXISTING SANITARY MANHOLES.
- 17. EXTERNAL CHIMNEY SEALS ARE REQUIRED ON PROPOSED AND ADJUSTED EXISTING SANITARY MANHOLES.
- 18. SOME EXISTING ITEMS TO BE REMOVED HAVE BEEN DELETED FROM THIS PLAN FOR CLARITY. SEE DEMOLITION PLAN FOR ITEMS DELETED.
- 19. ALL D.I. WATERMAIN PIPE AND D.I. WATERMAIN FITTINGS SHALL BE WRAPPED.

APARTMI SOUTH VILLA, ILLINOIS LAKE LING

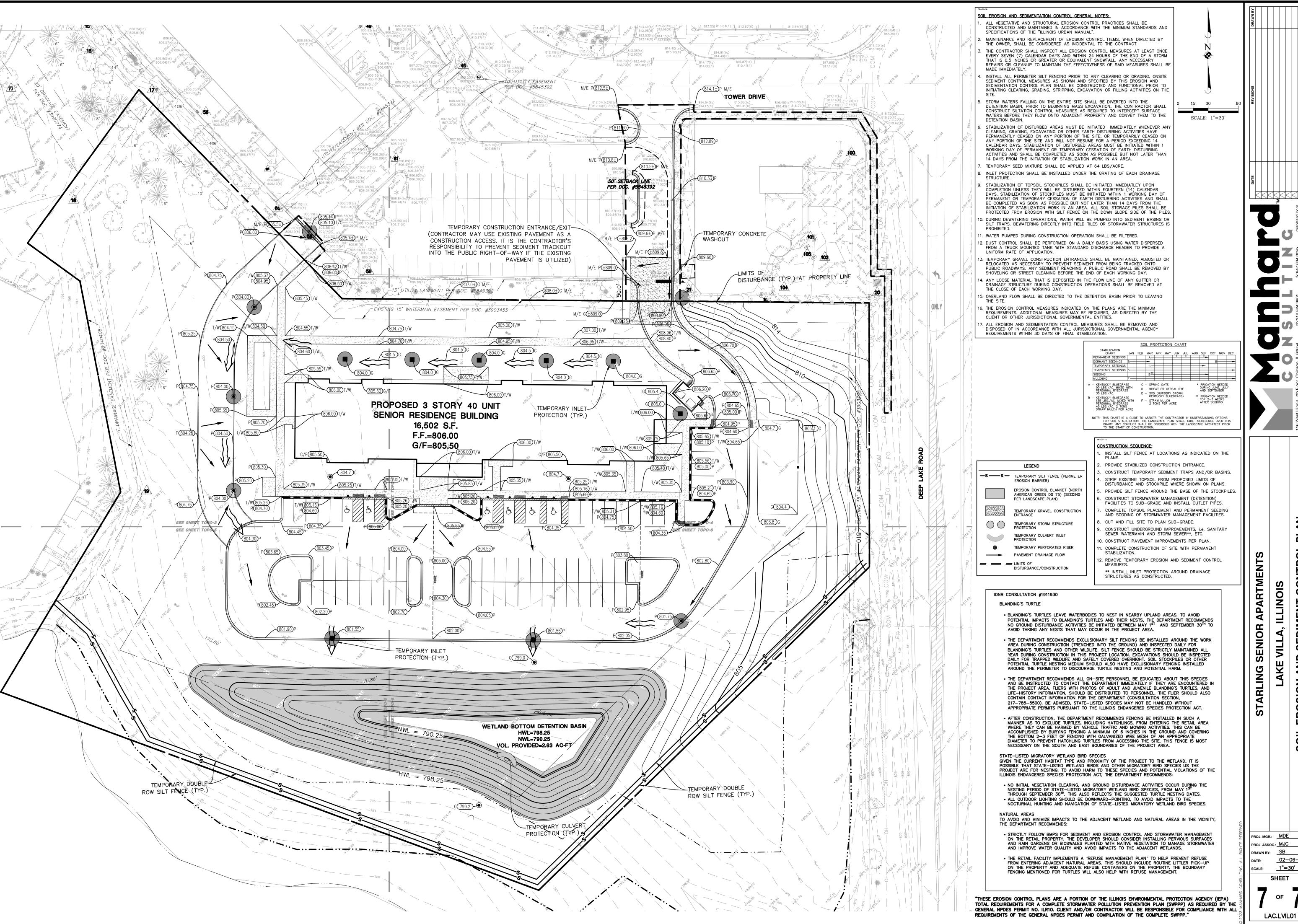
SENIOR

<u>1"=30'</u> SHEET LAC.LVIL01

PLAN-UTILITY

PROJ. MGR.: MDE PROJ. ASSOC.: MJC SCALE:

02-06-23



ILLINOIS

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NTRO

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SEDIMENT

AND

NOISO

ER

AKE

PROJ. MGR.: MDE PROJ. ASSOC.: MJC

SHEET

02-06-23 <u>1"=30'</u>

FLOW REDUCTION TO EXISTING OFF—SITE PAINTED LAKES SUBDIVISION STORWMATER BASIN

AS PART OF THE LAKE VILLA MUNICIPAL CODE AND LAKE COUNTY WATERSHED DEVELOPMENT ORDINANCE, PROPOSED REGULATED DEVELOPMENT MUST BE REDUCED TO A MAXIMUM RELEASE OF 0.15 CUBIC FEET PER SECOND (CFS) FOR EVERY ACRE OF HYDROLOGICALLY DISTURBED AREA IN A 100-YEAR STORMWATER EVÉNT

BASED ON THE CURRENT DEVELOPMENT PLAN:

APPROX. 100-YEAR FLOW RATE FROM HYDROLOGICALLY DISTURBED

STARLING LOFTS SITE AREA PRIOR TO DEVELOPMENT: 33.5 CFS

APPROX. 100-YEAR FLOW RATE FROM HYDROLOGICALLY DISTURBED STARLING LOFTS SITE AFTER DEVELOPMENT:

FLOW REDUCTION TO EXISTING OFF—SITE PAINTED LAKES BASIN >80% REDUCTION

WATER QUALITY AND RUNOFF VOLUME REDUCTION (RVR)

AS PART OF THE LAKE VILLA MUNICIPAL CODE AND LAKE COUNTY WATERSHED DEVELOPMENT ORDINANCE, PROPOSED REGULATED DEVELOPMENT MUST PROVIDE STRATEGIES TO MINIMIZE STORMWATER RUNOFF VOLUMES AND ADDRESS WATER QUALITY IMPAIRMENTS BY INCORPORATED STORMWATER INFILTRATION, EVAPOTRANSPIRATION, REUSE, OR OTHER METHODS. BASED ON THE CURRENT DEVELOPMENT PLAN:

REQUIRED RUNOFF VOLUME REDUCTION 2,400 CUBIC FEET

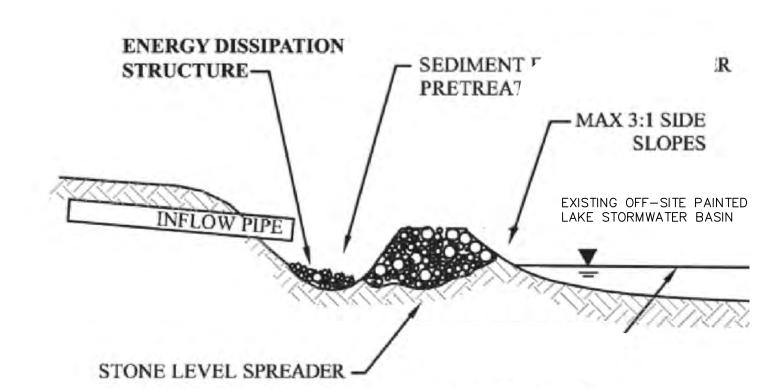
PROVIDED RUNOFF VOLUME REDUCTION 3,900 CUBIC FEET

160% OF REQUIREMENT

0.65 CFS

IN ADDITION TO PROVIDING GREATER RUNOFF VOLUME REDUCTION THAN REQUIRED BY CODE, THE SITE WILL PROVIDE A HYDRODYNAMIC SEPARATOR TO PROVIDE ADDITIONAL FILTRATION OF PARTICULATES PRIOR TO RELEASING STORMWATER INTO THE EXISTING OFF—SITE PAINTED LAKES

A LEVEL SPREADER WILL BE PROVIDED AT THE OUTLET OF THE STORMWATER BASIN TO CONVERT CONCENTRATED FLARED END SECTION FLOW TO SHEET RUNOFF.



CONCEPT LEVEL SPREADER SCHEMATIC



What are underground hydrodynamic separators?

Hydrodynamic separators remove oil, grease, trash, and sediment from stormwater runoff. These underground structures include oil and grit separators and proprietary hydrodynamic separators, such as Baysaver,* Aqua-Swirl,* and Stormceptor.* Please visit the manufacturers' websites for more information about these devices. Underground hydrodynamic separators are commonly located under parking lots at commercial sites or multi-family residential sites (condominium, apartments, etc.).

How do they work?

During a storm, rainwater collects pollutants as it flows across impervious surfaces, such as rooftops, sidewalks, and roads. Flow splitters are often used to send a certain quantity of untreated water, known as the "first flush," to a hydrodynamic separator. The oil and grit separator captures and treats stormwater by separating oil, grease, trash, and sediment from the captured stormwater through three chambers. The clean water is then returned to the local stream or to the storm drain system.

Proprietary systems such as Baysaver,* Aqua-Swirl,* and Stormceptor,* follow similar processes to remove oil, grease, trash, and sediment from stormwater. The designs of these systems vary.

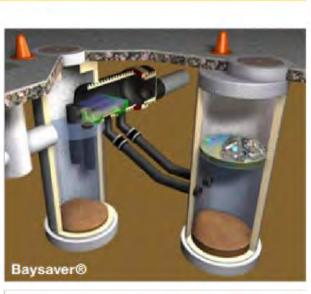
Why are hydrodynamic separators important?

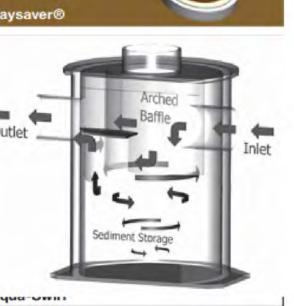
- Remove pollutants · Improve the health of streams and rivers
- Help to make our waters fishable and swimmable
- · Improve the quality of the Chesapeake Bay

Why is it important to keep your hydrodynamic separator maintained?

An unmaintained hydrodynamic separator may: · Not remove pollutants as intended, sending polluted water to streams and rivers

HYDRODYNAMIC SEPARATOR INFORMAITON (COURTESY OF MONTGOMERY COUNTY DEP)





02-06-23

A, ILLINOIS

VILLAGE OF

SENIOR LOFTS

AS SHOWN





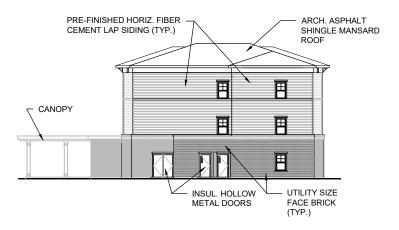


STARLING SENIOR APARTMENTS

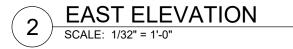
0 DEEP LAKE ROAD LAKE VILLA, IL 60046 DATE: 1/27/2023

A0.2



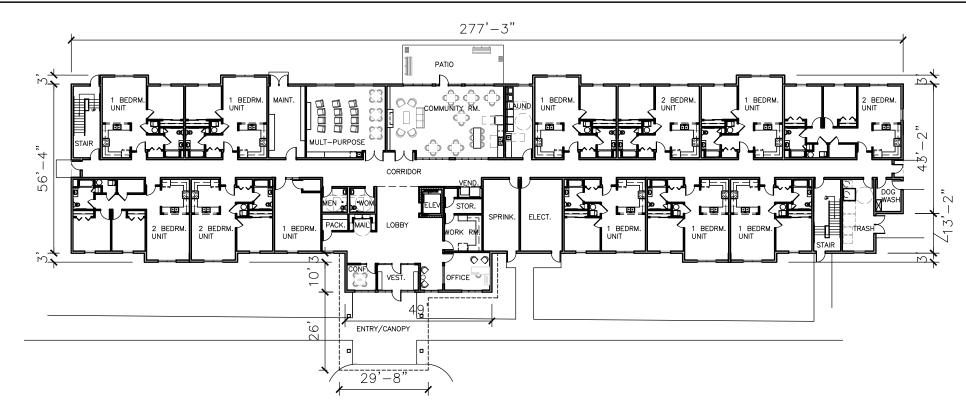


1 SOUTH (FRONT) ELEVATION
SCALE: 1/32" = 1'-0"

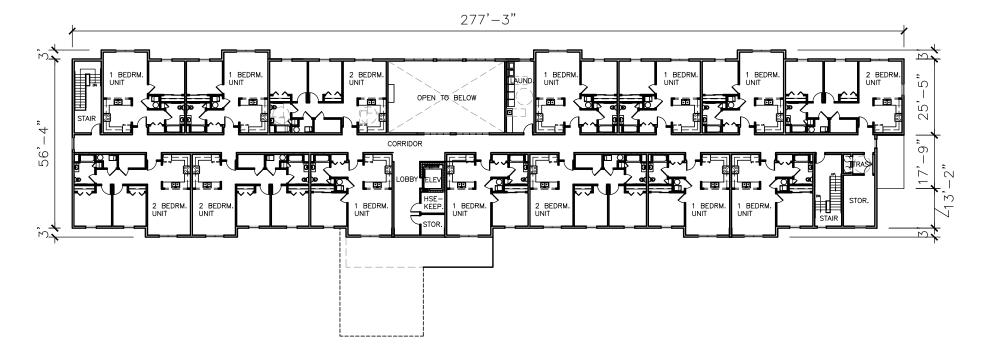


STARLING SENIOR APARTMENTS

0 DEEP LAKE ROAD LAKE VILLA, IL 60046 DATE: 1/27/2023 **A3.0**



1 FIRST FLOOR PLAN
SCALE: 1/32" = 1'-0"



2 SECOND FLOOR PLAN
SCALE: 1/32" = 1'-0"

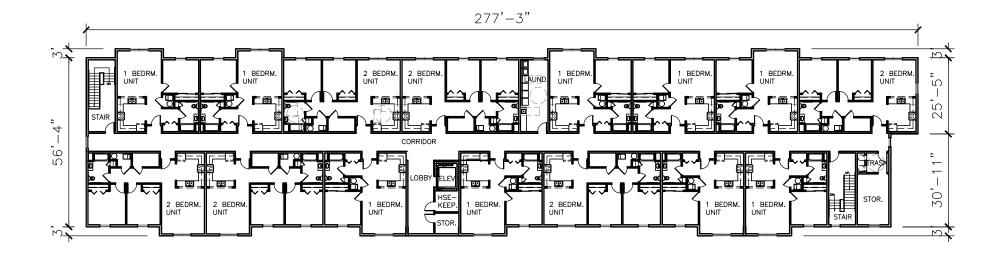
NORTH ARROW
ARCHITECTURE

524 WEST ST. CHARLES ROAD
VILLA PARK, ILLINOIS 60181

LAKE VILLA

0 DEEP LAKE ROAD LAKE VILLA, IL 60046

PID#	
DATE:	
1/27/2023	



1 THIRD FLOOR PLAN
SCALE: 1/32" = 1'-0"



PROPOSED LAKE VILLA SENIOR LOFTS VILLAGE OF LAKE VILLA, ILLINOIS PRELIMINARY STORMWATER MANAGEMENT PLAN

INTRODUCTION

The proposed Lake Villa Senior Lofts site is +/- 5.21 acres located at the southwest corner of Grass Lake Road and Deep Lake Road in Lake Villa, Illinois. These improvements will consist of a construction of a building includes car parking, grading and paving activities, installation of underground utilities, and soil erosion control measures. Stormwater Management was previously provided for the developed area north of the site (WT Group Storm Management Report). Stormwater management for the proposed improvements will be provided through additional storm sewers and an additional on-site basin, providing detention per the new Bulletin 75 rainfall data. A Bulletin 75 Nomograph was used to calculate preliminary detention requirements for the proposed improvements and modeled calculations will be performed in the final stormwater phase. This report serves as a Preliminary Stormwater Management Plan for the proposed site stormwater design.

PROJECT DECSCRIPTION

The project is located near the southwest corner of Grass Lake Road and Deep Lake Road intersection in the Village of Lake Villa, Illinois. The site is in Section 28, Township 46 North, and Range 10 East. It is bordered on the west by a neighborhood, to the north by the Lake House Restaurant and Water Tower, to the east by Deep Lake Road, and to the south by an existing detention basin. This project will be served by the proposed detention basin.

EXISTING CONDITIONS

The existing conditions of the site are an undeveloped site. The existing drainage is through sheet flow to the existing detention basin or to a swale that drains to the basin. The site is free of floodplain but wetland have been identified off-site to the south.

PROPOSED CONDITIONS

The proposed conditions are design to contain the proposed site within the proposed detention basin. The onsite project area will drain via proposed storm sewer to a proposed 2.6 ac-ft detention pond with a NWL of 790.25 and HWL of 798.25. The calculations used to size the proposed detention basins using 0.15 cubic feet per second per acre. The proposed



detention was designed using Bulletin 75. The runoff volume reduction quantity was found by using the runoff depth of 0.39 inches, for the 39% impervious site, and finding it in the provided table in the LCWDO. The RVR Quantity found in the table was then multiplied by the total impervious area to find our site RVR of 2,712 cubic feet. Additionally, a hydrodynamic separator will be added in order to provide extra filtration of stormwater particulates.

All required detention and additional information for the project site is detailed in the stormwater calculations and exhibits provided.

ANALYSIS METHODS

The procedures and assumptions used for the storm sewer and drainage design elements are listed below.

- Onsite curve numbers were calculated using 98 for impervious and 74 for pervious areas in the predeveloped condition and 80 for pervious areas in the postdeveloped condition
- The CN Exhibit and calculation attached to this report show the proposed CN to be 86.
- Required detention volume was found using a B-75 nomograph.
- RVR and water quality requirements were found using the Lake County Watershed Development Ordinance graphs and tables.

CONCLUSION

In our professional opinion the proposed development's stormwater management system as described in this report conforms to the requirements set forth by the Village of Lake Villa Municipal Code.

Sincerely,

MANHARD CONSULTING, LTD

Matt Eagle



CALCULATIONS



COMPOSITE RUNOFF CURVE NUMBER (CN)

PROJECT:	Starling Senior Aparti	ments	Р	PERMIT NUMBER:			
LOCATION:	Lake Villa, Illinois				DATE:	12/29/2022	
TYPE OF AR	REA (SELECT WITH DRO	P-DOWN)					
X DE	TAINED AREA			_MAJOR S	STORMWATER SY	STEM	
UN	IRESTRICTED AREA			OTHER:			
UP	STREAM AREA						
CONDITION	I (SELECT WITH DROP-	DOWN)					
PR	OPOSED CONDITION		_x	EXISTING	G CONDITION		
RUNOFF CL	JRVE NUMBER						
Su	urface Description	Hydrologic So (HSG		CN	Area (acres)	Product (CN)(Area)	
Perviou	us Surface			74	5.21	385.54	
				TOTALS:	5.21	385.54	
COMPOSIT	E RUNOFF CURVE NUM	IBER					
Com	posite CN = ———	Product =	385.54 5.21	→ co	omposite CN =	74	



COMPOSITE RUNOFF CURVE NUMBER (CN)

PROJECT:		Starling Senior Apart	ments	P	PERMIT NUMBER:		
LOCATION:		Lake Villa, Illinois			DATE:	2/6/2023	
TYPI	E OF ARI	EA (SELECT WITH DRO	DP-DOWN)				
_	X DET	AINED AREA		MAJOR	STORMWATER SYS	STEM	
_	UNI	RESTRICTED AREA		OTHER:			
UPSTREAM AREA							
CON	IDITION	(SELECT WITH DROP	-DOWN)				
_	X PRO	POSED CONDITION		EXISTIN	G CONDITION		
RUN	OFF CU	RVE NUMBER					
	Sui	face Description	Hydrologic Soil Group (HSG)	CN	Area (acres)	Product (CN)(Area)	
	Impervi	ous Surface	N/A	98	1.68	164.64	
	Perviou	s Surface	D (next higher soil group per Lake County WDO)	80	3.50	280.00	
ļ							
}							
-							
Ļ				TOTALS:	5.18	444.64	
CON	IPOSITE	RUNOFF CURVE NUI	MBER				
	Comp	osite CN = ———	Product 444.64 5.18	→ c	omposite CN =	86	

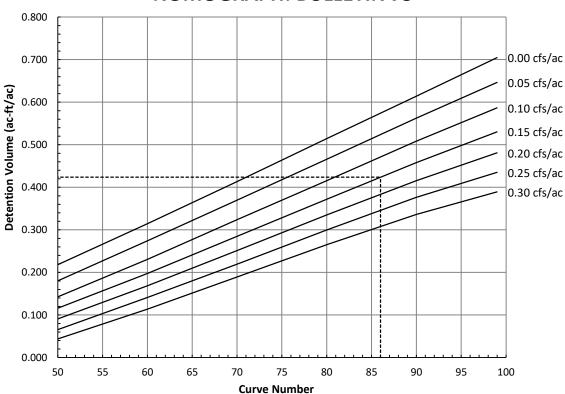


NOMOGRAPH: BULLETIN 75 RAINFALL DATA

PROJECT: **Starling Senior Apartments PERMIT NUMBER:** LOCATION: Lake Villa, Illinois DATE: 2/6/2023 **DEVELOPMENT INFORMATION** 1. Detained Area (Hydrologically Disturbed Area) 4.300 acres 2. Curve Number 86.00 3. Actual Release Rate 0.65 cfs **REQUIRED DETENTION VOLUME** 4. Required Detention Volume ac-ft 1.82

NOMOGRAPH

NOMOGRAPH: BULLETIN 75





DETENTION VOLUME PROVIDED

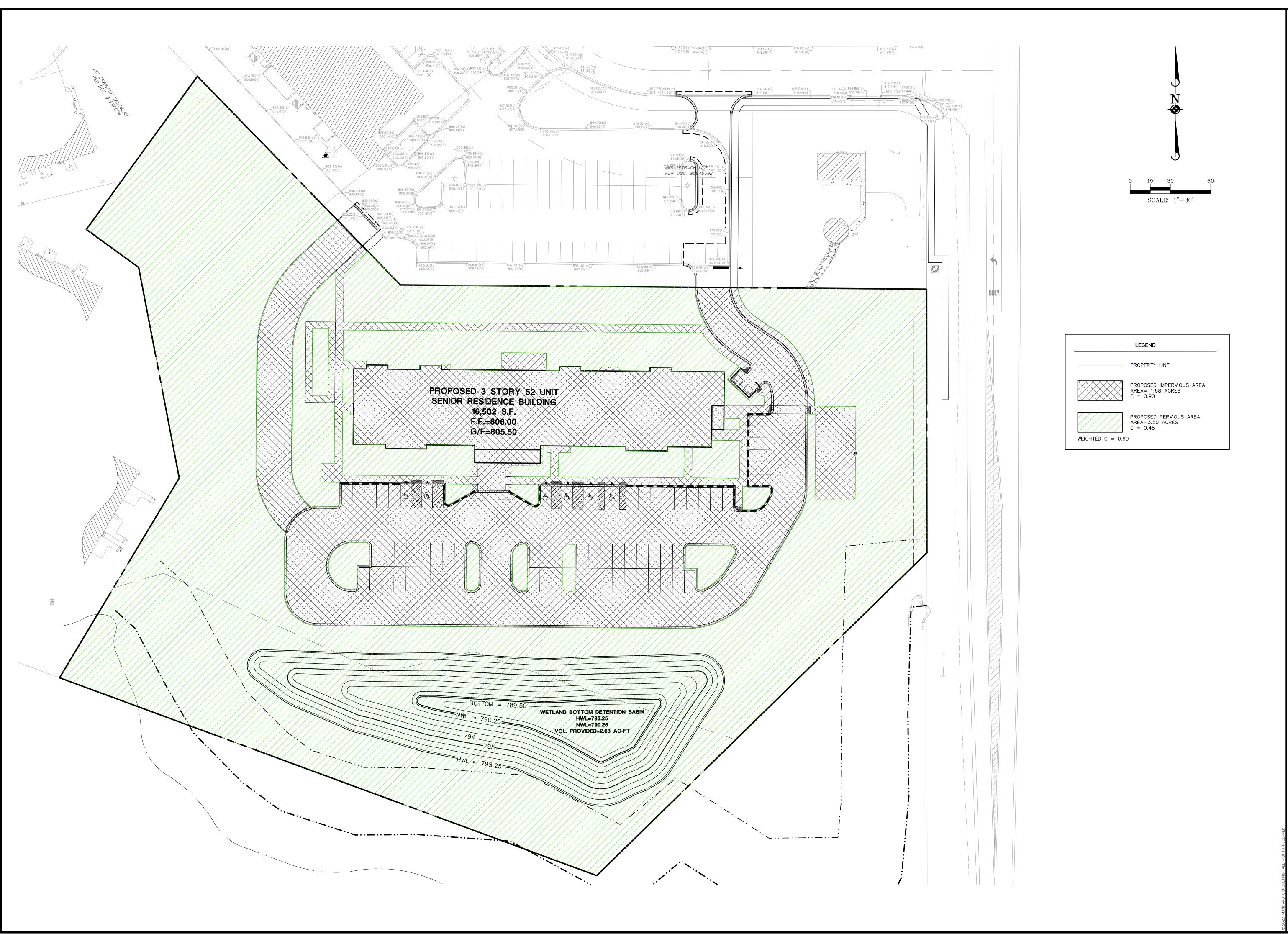
PROJECT:	Starling Senior Apartments			PERMIT N	UMBER:							
LOCATION:	OCATION: Lake Villa, Illinois					DATE:	1	1/23/2023				
AREA UNITS (CHOOSE WITH DROP-DOWN)							_					
Ur	nits:		ft²									

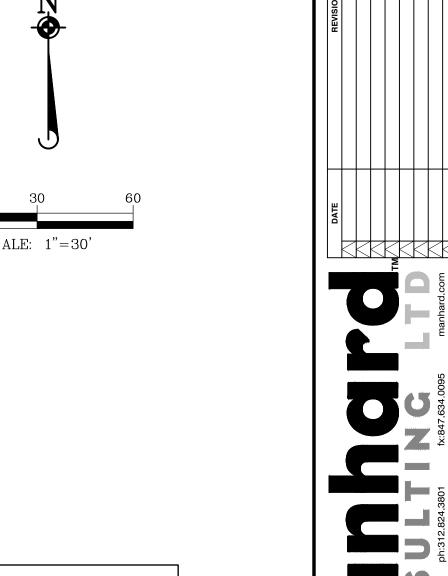
POND / VAULT / SURFACE DETENTION VOLUME

Elevation (ft)	Area (ft²)	Average Area (ft²)	Increment Volume (ac-ft)	Cumulative Volume (ac-ft)
790.25	4520.00			0.00
		5139.50	0.09	
791.00	5759.00			0.09
		6964.00	0.16	
792.00	8169.00			0.25
		9281.00	0.21	
793.00	10393.00			0.46
		11801.50	0.27	
794.00	13210.00			0.73
		14587.00	0.33	
795.00	15964.00			1.07
		17481.00	0.40	
796.00	18998.00			1.47
		20519.00	0.47	
797.00	22040.00			1.94
		23611.50	0.54	
798.00	25183.00			2.48
		25584.00	0.15	
798.25	25985.00			2.63

DETENTION VOLUME	

Total Detention Volume (ac-ft)	2.63	



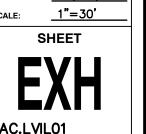


LAKE VILLA SENOIR LOFTS LAKE VILLA, ILLINOIS IMPERVIOUS EXHIBIT

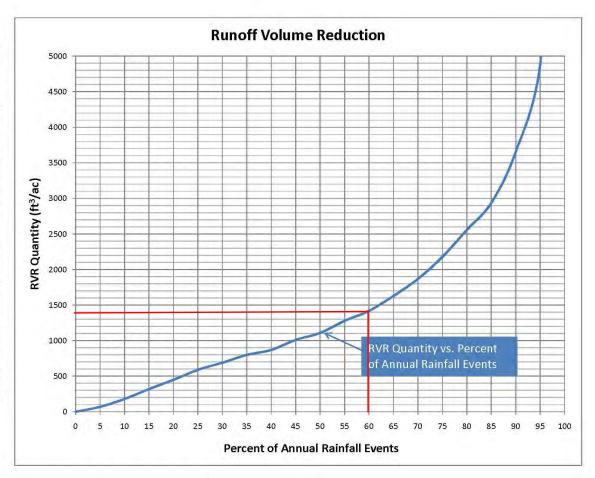
DRAWN BY: SB

1"=30'

1"=30'



	100% impervious values				
Percent of Annual Rainfall Events	Runoff Depth (in)	RVR Quantity ft ³ /ac new impervious			
0	0	0			
5	0.02	70			
10	0.05	180			
15	0.09	320			
20	0.12	450			
25	0.16	590			
30	0.19	690			
35	0.22	800			
40	0.24	870			
45	0.28	1010			
50	0.30	1110			
55	0.35	1280			
60	0.39	1420			
65	0.45	1630			
70	0.51	1870			
75	0.60	2180			
80	0.70	2560			
85	0.81	2940			
90	1.01	3660			
95	1.35	4900			
99	2.41	8760			



Runoff Depth based on Figure 3 of the Center For Watershed Protection Report.

Runoff Depth = P*R where:

P = Rainfall Depth (inches)

R=Volumetric Runoff Coefficient = 0.95 for 100% impervious cover [0.05+.009(I), where I is 100% (impervious cover)]

RVR Quantity = Runoff Depth (in) $/ 12 (in/ft) * 43560 (ft^2/ac)$



RUNOFF VOLUME REDUCTION PROVIDED

PROJECT: Starling Senior Apartments			Senior Apartments		PERMIT NUMI	BER:		
LOCA	ATION:	Lake Vill	a, Illinois		D/	ATE: 1/23/2023		
AREA	AREA UNITS (CHOOSE WITH DROP-DOWN)							
	Un	nits:	ft²					
PON	D / VAL	JLT / SUR	FACE DETENTION VOL	UME				
	_	ation ft)	Area (ft²)	Average Area (ft²)	Increment Volume (ac-ft)	Cumulative Volume (ac-ft)		
f	789	9.25	2906.00			0.00		
				3512.50	0.06			
	790	0.00	4119.00			0.06		
				4319.00	0.02			
	790	0.25	4519.00			0.09		
TOT	TOTAL DETENTION VOLUME							
				Total	RVR Volume (ac-ft)	0.09		



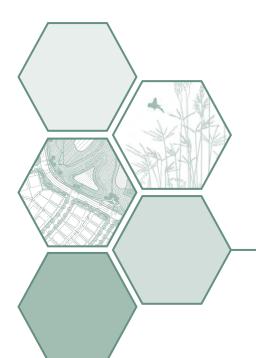
WETLAND DELINEATION REPORT

Grass Lake Road & Deep Lake Road

Lake Villa, Lake County, IL

Manhard Consulting, LTD. MA2242

November 22, 2022 Revised February 3, 2023



GARY R. WEBER ASSOCIATES, INC.

LAND PLANNING ECOLOGICAL CONSULTING LANDSCAPE ARCHITECTURE

WETLAND DELINEATION REPORT

Grass Lake Road & Deep Lake Road
Pin #0228201178
Lake Villa, Lake County, IL

Prepared for:

Manhard Consulting, LTD. 116 West Illinois St, Floor 7 Chicago, IL 60654

Attn: Matt Eagle, P.E.

Prepared by:

Gary R. Weber Associates, Inc. 402 W. Liberty Drive Wheaton, IL 60187 (630)668-7197

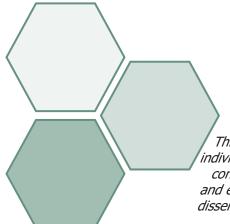
Project Reference Information

MA2242

November 22, 2022

Carl M. Peterson, CPESC, LEED AP GRWA - Managing Principal

Ellen L. Raimondi, CWS, DECI GRWA - Senior Ecologist



Project Staff

Lisa Pajon

GRWA - Natural Resource Consultant

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APPENDIX A - WATER RESOURCES MAPS: EXHIBIT A-G

APPENDIX B - SITE PHOTOS: EXHIBIT H

APPENDIX C – WETLAND DETERMINATION FORMS

APPENDIX D - THREATENED AND ENDANGERED SPECIES CONSULTATION

WETLAND DELINEATION REPORT

Project Name:	Grass Lake Road & Deep Lake Road Client: Manhard Consulting, LTD.
Location:	Lake Villa, Lake Villa Township, Lake County, IL, 60046,
Parcel PIN #	0228201178
PLSS	NE S28 T46N R10E
Coordinates	Latitude: 42.439678 Longitude: -88.063754
Field Ecologist:	Lisa Pajon
Supervised by:	Ellen Raimondi (CWS)
Date of site visit:	11/3/2022

1.0 INTRODUCTION

Gary R Weber Associates performed a formal wetland delineation within the study area located on Deep Lake Road, Lake Villa, Lake County, IL (Exhibit A: Location), hereafter referred to as the study area. It is generally bounded by Deep Lake Road to the east, by commercial property to the north, and by wetland and residential properties to the west and south. The study area, as presented in this report, represents the property limits investigated by GRWA for the presence of regulated surface water resources. These limits do not necessarily reflect the boundaries of any proposed development activities. It is within the Sequoit Creek sub-watershed and the Fox River Watershed.

1.1 SITE DESCRIPTION

The study area (approximately 4.97-acres) consists of a turf field with a lightly a scrub-shrub border to the north and east (see Photo 1-2). The field is an elevated building pad that was constructed around 1999.

One (1) wetland complex totaling over 10 acres in size, with approximately 0.06-acres within the study area boundaries was identified. The wetland consists of a mix of emergent vegetation and open water with a connected drainage swale at Deep Lake Road. The wetland extends on-site in the southwest corner of the study area

Wetland acreages provided in this report are estimations; a survey of staked boundaries must be performed to obtain exact size and location information. A summary of regulations is provided in Section 1.2.

1.2 REGULATION SUMMARY

Basic information regarding wetland regulations may be found in the Regulatory Statement portion of this report. Briefly, the U.S. Army Corps of Engineers (USACE) regulates all Waters of the United States that are currently or historically navigable and all wetlands that are connected to or associated with these waterways. In Lake County, isolated wetlands are regulated through implementation of a countywide watershed development ordinance. Lake County requires a minimum buffer width of 50 feet for wetlands greater than 2.5 acres.

Wetland 1 extends to the west and enters a complex that is part of the Sequoit Creek drainage and is likely regulate by the USACE.

At the time of this wetland delineation report, current regulations state that this delineation is valid for 3 years from the date of site verification.

1.3 THREATENED AND ENDANGERED SPECIES

Based on a 11/10/2022 review of the U.S. Fish and Wildlife Service (USFWS) Information for Planning and Consultation (IPaC) website, sensitive (federally threatened or endangered) plant or animal species habitat habitat are not located on or adjacent to the study area (see attached USFWS Review Summary). Further consultation with this agency may not be required for a Section 404 Permit from the USACE

According to the Illinois Department of Natural Resources (IDNR), the following protected resources may be in the vicinity of the project location: Deep Lake INAI Site, Loon Lake INAI Site, Sun, Lake Nature Preserve, Blanding's Turtle (*Emydoidea blandingii*), King Rail (*Rallus elegans*), Least Bittern (*Ixobrychus exilis*) (see INDR EcoCAT correspondence).

The IDNR has provided conservation recommendations for the above listed protected resources. See the below summary and EcoCAT consultation included in Appendix E.

- Deep Lake INAI, Loon Lake INAI, Sun Lake INAI, & Sun Lake Nature Preserve: Adverse effects are unlikely.
- Blandings Turtle: Construction should be completed in inactive season from November 1-March 1. Exclusionary fencing around the construction area and daily checks for turtles should be initiated if time frame cannot be met.
- King Rail and Least Bittern: 50 ft buffer should be maintained on all wetlands, and if possible all work near wetlands should be completed between September 30-April 1 to avoid the prime nesting and fledging season.
- Lighting recommendations have been made for all external fixtures.

2.0 PROJECT PURPOSE

The purpose of the site visit was to identify regulated surface wetland, non-wetland water resources or Waters of the United States (WOUS) on, or within 100 feet, of the study area. A floodplain determination was not included as part of our investigation.

On-site wetland areas encountered were delineated using standard methods sanctioned by the United States Army Corps of Engineers in the <u>Corps of Engineers Wetlands Delineation Manual</u> (1987) and 2010 <u>Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region</u>. Plant observations were made for calculating the Coefficient of Conservatism (c) and Floristic Quality Index (FQI) for each wetland plant community using the Wilhelm method (Swink and Wilhelm, 1994).

Observations also were made to determine if wetlands present within the study area were high-quality aquatic resources based on the Lake County Watershed Development Ordinance. Observed wildlife and evaluation of resource quality are also reported as required by the Chicago District USACE.

On-site non-wetland water resources encountered were given established Ordinary High Water Mark (OHWM) boundaries using the definitions described in Section 404 of the Clean Water Act (CWA Section 404(b).(1) Guidelines (40CFR230)

3.0 FXHIBIT REVIEW

- The Location Map identifies approximate location of study area and nearby major roadways (Exhibit A)
- The National Wetlands Inventory identifies no wetlands within the study area (Exhibit B).
- The Lake County Wetland Inventory identifies a Wetland within the southern portion of the study area. This is a designation assigned to areas with a high potential for exhibiting hydric soil, hydrophytic vegetation and required hydrologic conditions (Exhibit C).
- The Soil Map identifies the following soils within the study area:

```
530D2 Ozaukee silt loam – Non-hydric
840B Zurich and Ozaukee silt loams – Non-hydric
840C2 Zurich and Ozaukee silt loams – Non-hydric
979B Grays and Markham silt loams – Non-hydric
```

Field evaluations are made to determine if a hydric inclusion may be present (Exhibit D).

- The United States Geologic Survey (USGS) Topographic Map does not identify any surface drainage within or adjacent to the study area (Exhibit E)
- The Flood Insurance Rate Map identifies the study area outside the 500-year floodplain (Exhibit F).
- The Water Resources Summary identifies approximately locations and boundaries of water resources within the study area. Location of Wetland 1 is denoted (Exhibit G).
- The Site Photographs show conditions exhibited within the study area at the time of the site visit (Exhibit H)

4.0 METHODS

Prior to the site visit, a preliminary site evaluation is performed using aerial photography and natural resource mapping. Potential wetland areas and non-wetland waters units identified by these resources are evaluated in the field.

1987 USACE Wetland Delineation Manual and 2010 Regional Supplement.

Potential wetland areas were investigated to determine if they meet the requirements for a wetland based on the USACE parameters of vegetation, hydrology, and soils. In general, positive indication of each of the three parameters must be demonstrated to classify an area as wetland. Each of these parameters is discussed below.

Vegetation – Three vegetative indicators are applied to plant communities in order to determine if the hydrophytic vegetation criterion is met.

- More than 50% of the dominant plant species across all strata must be hydrophytic (water tolerant).
 Wetland plants fall into three indicator classes based on differing tolerances to water level and soil saturation. These indicators are rated obligate wetland (OBL), facultative wetland (FACW), or facultative (FAC).
- 2. The prevalence index is 3.0 or less. The prevalence index is a weighted-average wetland indicator status of all plant species in a sampling plot. The index is used to determine whether hydrophytic vegetation is present on sites where indicators of hydric soil and wetland hydrology are present but the vegetation initially fails the dominance test.
- 3. Over 50% of non-wetland plants in a sample area exhibit morphological adaptations for life in wetlands. To apply this indicator, adapted plants must occur in areas where indicators of hydric soil and wetland hydrology are present.

Hydrology – To be considered a wetland, an area must have 14 or more consecutive days of flooding or ponding, or a water table 12 inches or less below the soil surface, during the growing season at a minimum frequency of 5 years in 10. Wetland hydrology indicators are divided into four groups as described below:

Group A – Observation of Surface Water or Saturated Soils

Group B – Evidence of Recent Inundation

Group C – Evidence of Recent Soil Saturation

Group D -Evidence from Other Site Conditions or Data

Soils - To be considered a wetland, an area must contain hydric soil. Hydric soils are formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic (lacking oxygen) conditions in the upper part. Soils generally, but not always, will develop indicators that are formed predominantly by the accumulation or loss of iron, manganese, sulfur, or carbon compounds in a saturated and anaerobic environment. The most current edition of the United States Department of Agriculture, Natural Resource Conservation Service *Field Indicators of Hydric Soils in the United States* is used for identification of hydric soils. Field indicators of hydric soils include but are not limited to the presence of any of the following: histic epipedon, sulfidic odor, at least 2 centimeters of muck, depleted matrix, and/or redoximorphic features. Field indicators are usually examined in the top 20 inches of the soil. Soil colors are determined using *Munsell Soil Color Charts*.

Areas meeting these three criteria are staked in the field for surveying purposes. Boundaries are demarcated in the field with pink flagged pin stakes labeled "WETLAND DELINEATION." Staked boundaries are mapped on an aerial photograph included in this report. Approximate off-site wetland boundaries are

identified on the aerial photograph and were determined using available aerial photographs, wetland maps, and field observation.

The Ordinary High Water Mark (OHWM)

Potential non-wetland water resources were investigated to determine if they meet requirements for a regulated WOUS or isolated waters unit based on USACE parameters.

Ordinary High Water Mark (OHWM) boundaries were established using the definition provided in 33 CFT Part 328.3 of the Clean Water Act. The OHWM is defined as the line on the shore established by the fluctuations of water. This line can be identified by physical characteristics such as a clear, natural line on the bank, changes in the character of the soil, shelving, vegetation matted down, bent, or absent, leaf litter disturbed or washed away, sediment deposition, water staining, the presence of litter and debris, destruction of terrestrial vegetation, sediment sorting, scour, multiple observed or predicted flow events, and abrupt change in plant community.

5.0 REVIEWED ON-SITE CONDITIONS

5.1 WATER RESOURCES SUMMARY

<u>Wetland 1.</u> This wetland (approximately over 10 acres in total size and 0.06 acres on-site) is located outside to the south within the southwestern portion of the study area.

The wetland is a complex characterized by emergent vegetation and portions of open water. A drainage route along Deep Lake Rd connects to the wetland complex and is included in the identified boundaries. A prairie buffer separates the wetland complex from the turf building pad within the study area. The wetland complex appears to provide water flow to Sequoit Creek, west of the study area. See photos 3-7 for reference.

The wetland is identified on the NWI, Lake County Wetland Inventory, and the USGS Topographic map.

Sample points were established within and adjacent to the on-site portion of Wetland 1 to characterize the vegetation, soils, and hydrology (Exhibit G: Aerial Photograph). The on-site wetland boundaries and a portion of the drainageway along Grass Lake Rd. were demarcated with 18 pink flagged pin stakes.

The on-site portion of Wetland 1 was primarily vegetated by Sandbar Willow (*Salix interior*), Narrow-leaved Cattails (*Typha angustifolia*), Awl-Fruit Sedge (*Carex stipata*) and Dark Green Bulrush (*Scirpus atrovirens*). The mapped soil series are 530D2 Ozaukee silt loam, a non-hydric soil, and 840C2 Zurich and Ozaukee silt loams, a non-hydric soil. USDA field indicators A11: Depleted Below Dark Surface, A12: Thick Dark Surface, provided evidence of hydric soil. Saturation, geomorphic position, and the FAC-neutral test provided evidence of persistent hydrology (See Wetland Determination Data Forms).

The field investigation was done outside of the growing season. Floristic dominance was assessed by observing available seed heads, general morphology, and non-dormant vegetation. Floristic quality may need to be assessed in the spring.

6.0 REGULATORY STATEMENT

6.1 Federal Regulations

The deposition of dredge or fill materials into federally jurisdictional wetlands or Waters of the United States is regulated by the USACE under Section 404 of the Clean Water Act.

The Nationwide Permit authorizes 0.1 acre or less of low quality wetlands to be filled without mitigation. If over 0.1 acre is proposed for filling or is subject to secondary impacts, in-kind mitigation may be required at a ratio of 1.5:1, or greater. The aggregate total loss of waters of the U.S. authorized by NWP cannot exceed 0.5 acre or 300 linear feet of streambed.

Under the existing regulations, secondary impacts (both on-site and off-site) from filling also must be evaluated. Mitigation may be required at a higher rate if a project will significantly alter wetland functions such as stormwater detention, water filtration, sediment trapping, and/or wildlife habitat.

Before mitigation will be approved, reasonable proof that avoidance or minimization of wetland impacts has been attempted must be provided to the Corps.

A USACE permit is not required if the wetlands are avoided and construction erosion near a wetland is controlled.

6.2 Municipal and State Regulations

<u>Lake County Watershed Development Ordinance:</u> The Lake County Watershed Development Ordinance regulates the development of all areas within the county. Plans for development must include provisions for stormwater conveyance, and conservation of streams and channels, lakes, ponds, or wetlands that exist on the site. A soil erosion and sediment control plan must be provided. Buffer areas are required for all areas defined as "Waters of the U.S." including isolated wetlands, lakes and ponds. Buffer areas are divided into 2 types, linear buffers and water body buffers.

Linear buffers will be designated along both sides of all channels meeting the definition of "Waters of the U.S" or "Isolated Waters of Lake County". Minimum buffer widths are as follows:

- When the linear water body has a watershed greater than 20 acres but less than 1.0 square mile, the minimum buffer width will be 50 feet on each side of the linear water body;
- When the linear water body has a watershed greater than 1.0 square mile, the minimum buffer width will be 30 feet on each side of the linear water body;
- Linear exceptional functional value wetlands and streams with an Index of Biotic Integrity greater than 40 will `have a minimum buffer width of 100 feet on each side of the linear water body.

Water body buffers will encompass all non-linear bodies of water meeting the definition of "Waters of the United States" or "Isolated Waters of Lake County". Minimum buffer widths are as follows:

- For water bodies and wetlands greater than 1/3 acre but less than 1.0 acre in size, the minimum buffer width is 30 feet;
- For water bodies and wetlands greater than 1.0 acre but less than 2.5 acres in size, the minimum buffer width is 40 feet;
- For water bodies and wetlands greater than 2.5 acres in size, the minimum buffer width is 50 feet;
- Non-linear high quality aquatic resources shall have a minimum buffer width of 100 feet.

Mitigation for impacts to isolated wetlands is required within Lake County for:

- Wetland impacts greater than or equal to one-tenth (0.1) acres of Isolated Waters of Lake County that are high-quality aquatic resources (HQAR).
- Wetland impacts greater than or equal to one-quarter (0.25) acres of Isolated Waters of Lake County that are not high-quality aquatic resources.

Mitigation shall provide for the replacement of the Wetland environment lost to development at the following proportional rates (i.e. creation acreage to wetland acreage):

- For wetland impacts to areas that are not high-quality aquatic resources under Categories I, II and III, a minimum of 1.5:1 mitigation ratio for fully certified wetland mitigation bank credits;
- A minimum of 3:1 for wetland impacts that are high-quality aquatic resources
- A minimum of 6:1 for wetland impacts that are high-quality forested wetlands as defined in Appendix L.
- For wetland impacts to open waters that are not high-quality aquatic resources under Categories I, II, and III, a minimum of 1:1 mitigation ratio shall be required.

Act of 1989: The Illinois Interagency Wetlands Policy Act of 1989 is intended to ensure that there is no overall net loss of the State's existing wetland acres or their functional values resulting from State-supported activities. The Act charges State agencies with a further duty to "preserve, enhance and create wetlands where necessary to increase the quality and quantity of the State's wetland resource base."

The Interagency Wetlands Policy Act of 1989 states that any construction, land management or other activity performed by, or for which financial assistance is administered or provided by, a State agency that will result in an adverse impact to a wetland shall be subject to compliance. This includes, but is not limited to the following:

- The alteration, removal, excavation, or dredging of soil, sand, gravel, minerals, organic matter, vegetation, or naturally occurring minerals of any kind from a wetland;
- The discharge or deposit of fill material or dredged material in a wetland;
- The alteration of existing drainage characteristics, sedimentation patterns, or flood retention characteristics of a wetland;
- The disturbance of water level or water table of a wetland;
- The destruction or removal of plant life that would alter the character of a wetland, except for activities undertaken in accordance with the Illinois Noxious Weed Act;
- The transfer of State owned wetlands to any entity other than another state agency; and
- Other actions that cause or may cause adverse wetland impacts.

The Act is to be implemented through a State Wetland Mitigation Policy. The State Wetland Mitigation Policy requires preservation of wetlands as the primary objective. Where adverse wetland impacts are unavoidable, progressive levels of compensation based upon the level of impact to the existing wetland and the location of compensation wetlands are required.

<u>Archaeological Survey Requirements:</u> An archaeological survey may be required before a Section 404 permit will be issued for wetland impacts. The U.S. Army Corps of Engineers will make this determination as part of the permit application review. The archaeological survey must cover all areas of the study area, not wetlands only. If you already have a letter from the Illinois Historic Preservation Agency (IHPA) stating an archaeological survey is required, you should act on it because the USACE will support this notification.

7.0 RECOMMENDATIONS

One (1) wetland complex was identified within the study area. The overall wetland is over 10 acres in size, with approximately 0.006 acres located within the study area boundaries. In Lake County, wetlands over 2.5 acres require a minimum buffer width of 50 feet.

Based on connection with regulated waterways off=site, the Wetland 1 complex may be under USACE jurisdiction.

The U.S. Army Corps of Engineers has the final authority in determining the jurisdictional status of the wetlands identified on site. GRWA recommends that a request for jurisdictional determination be sent to the U.S. Army Corps of Engineers as soon as possible.

Any impacts to jurisdictional wetland, Waters of the U.S., or associated buffers will require U.S. Army Corps of Engineers and Lake County notification. GRWA can assist you with the request for jurisdictional determination, permit applications, agency negotiations, wetland design plans, and mitigation plans which may be applicable to your project. The wetland consultant should be involved during the planning and design stages of the project to avoid complications with the agencies after the plan has been drafted. Proper planning regarding wetlands can reduce delays caused by the permitting process and costly changes in site plans.

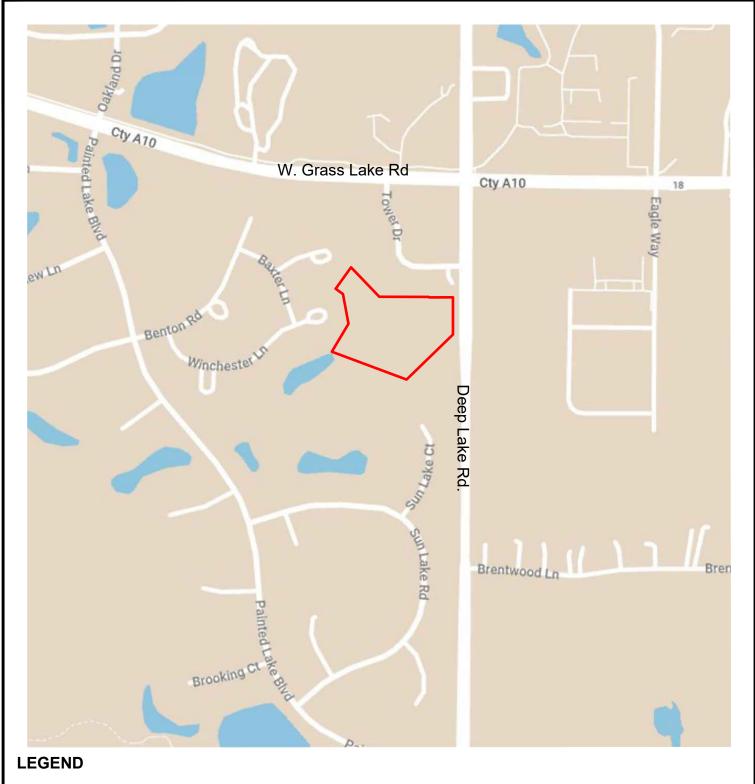
The Corps of Engineers will not perform wetland boundary verifications during the winter season. If an application for a wetland permit will be submitted to the Corps of Engineers during the winter months, we recommend that a request for concurrence of jurisdictional boundaries be sent to the Corps during the growing season. This will prevent a delay in the permitting process. GRWA is available to assist you with obtaining Corps concurrence.

8.0 REFERENCES

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WETLAND DELINEATION REPORT Grass Lake Rd & Deep Lake Rd – MA2242

Appendix A: Water Resource Maps (Exhibits A-G)



PLSS: NE S28 T46N R10E

Latitude: 42.439678 Longitude: -88.063754 Study Area



Coordinates provided by Earth Point for Google Earth



250' 500



SCALE: 1"=500'



Provided by: Google Maps

EXHIBIT A

Created by: MGK



Grass Lake Rd & Deep Lake Rd Lake Villa, IL

MA2242 Manhard Consulting, LTD.





Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Study Area

Lake

Other

Riverine

75' 150'



SCALE: 1"=150'

NATIONAL WETLANDS **INVENTORY MAP**

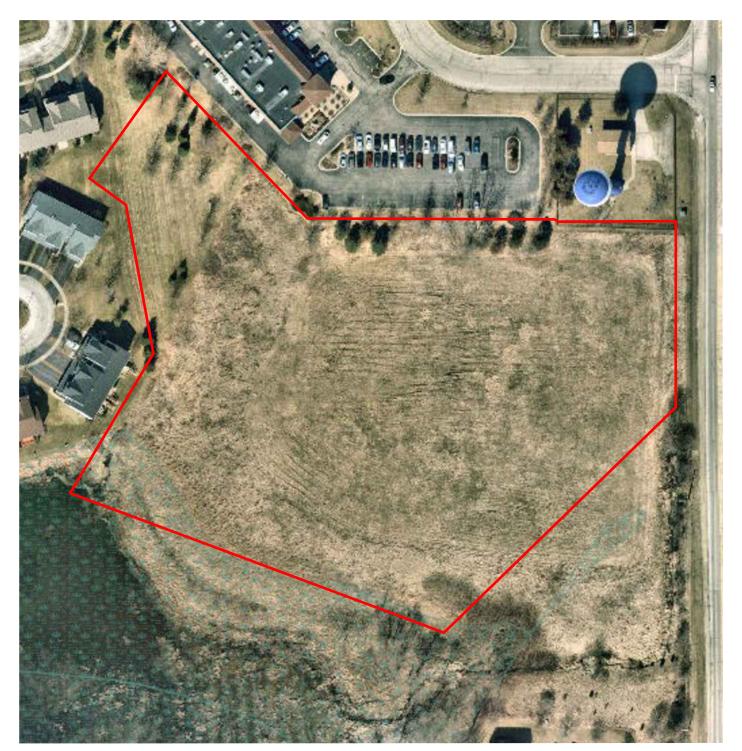
Provided by: U.S. Fish and Wildlife Service

EXHIBIT B

Created by: MGK

Grass Lake Rd & Deep Lake Rd Lake Villa, IL

> MA2242 Manhard Consulting, LTD.

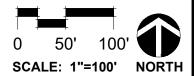


LEGEND











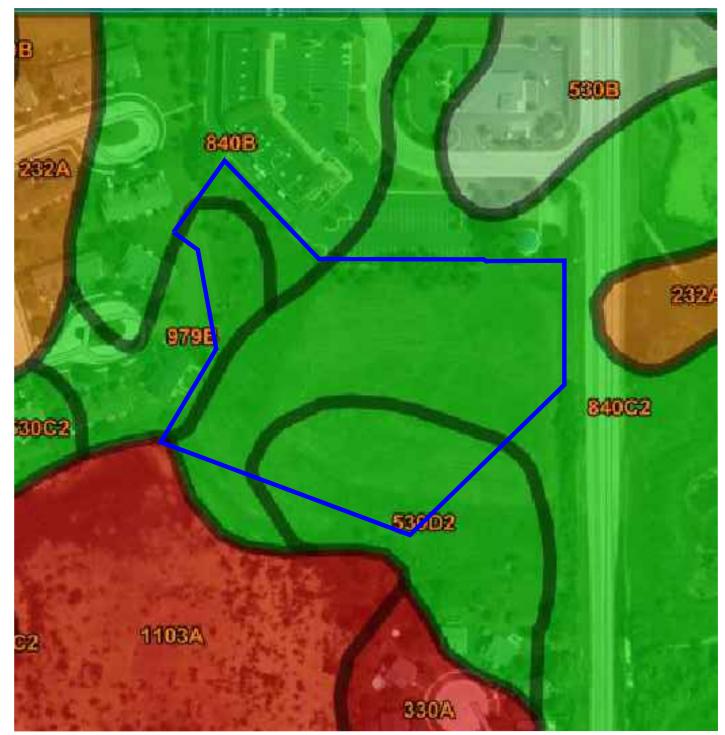
Grass Lake Rd & Deep Lake Rd Lake Villa, IL

MA2242 Manhard Consulting, LTD. LAKE CO. WETLAND INVENTORY MAP

Provided by: Lake County Parcel Viewer

EXHIBIT C

Created by: MGK Checked by



LEGEND

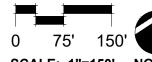
Hydric Soil (100%)

Study Area

- Predominantly Hydric (66-99%)
- Partially Hydric (33-65%)
- Predominantly Non-hydric (1-32%)
- Non-hydric (0%)

GARY R. WEBER

ASSOCIATES, INC.



SCALE: 1"=150'



Grass Lake Rd & Deep Lake Rd

Lake Villa, IL

MA2242 Manhard Consulting, LTD.

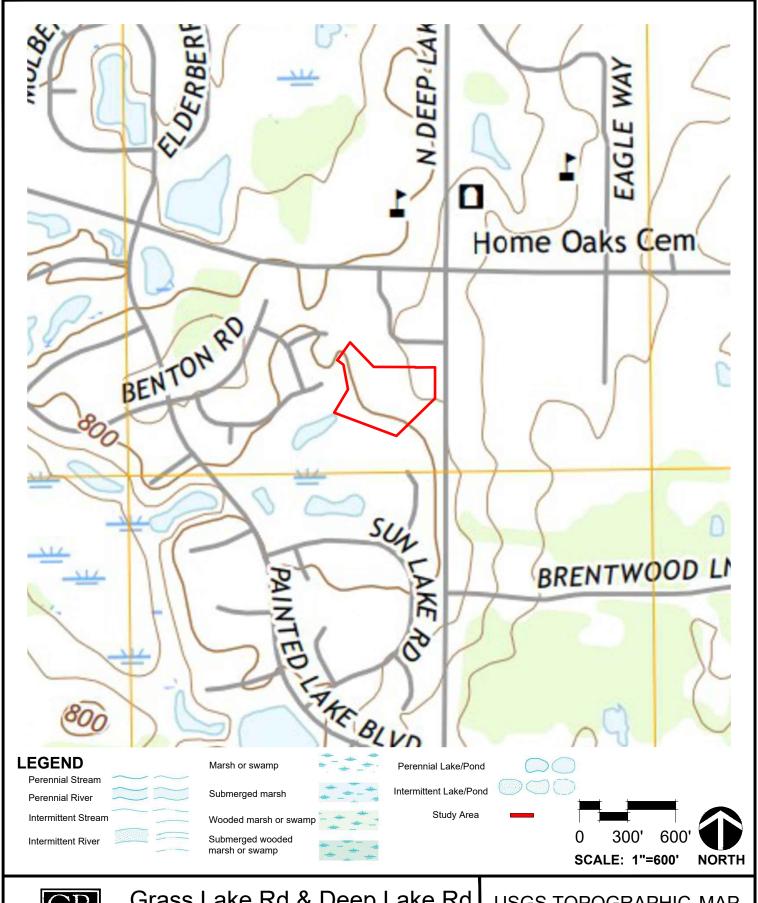
SOIL SURVEY MAP

Web Soil Survey 3.0 (Lake County)
USDA Natural Resources Conservation Service

EXHIBIT D

Created by: MGK

Checked by





Grass Lake Rd & Deep Lake Rd

Lake Villa, IL

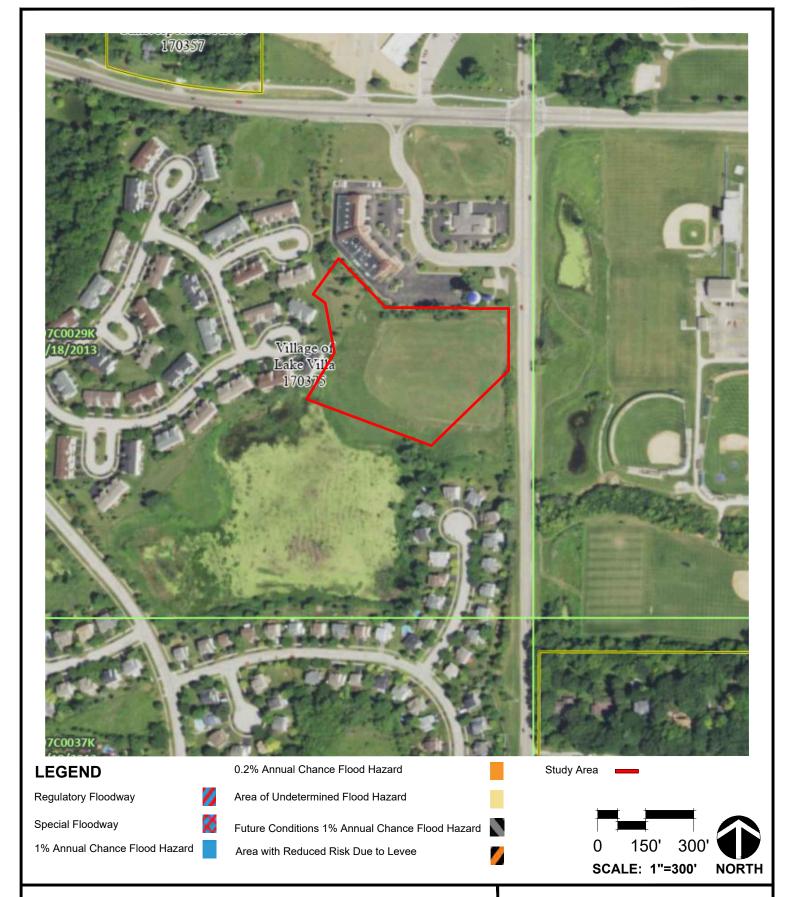
MA2242 Manhard Consulting, LTD.

USGS TOPOGRAPHIC MAP

Provided by: USGS Topographic (Antioch)

EXHIBIT E

Created by: MGK





Grass Lake Rd & Deep Lake Rd

Lake Villa, IL

MA2242 Manhard Consulting, LTD.

FLOOD INSURANCE MAP

Provided by: Federal Emergency Management Agency

EXHIBIT F

ted by: MGK Checked I



LEGEND

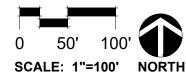
Study Area - 4.97 Acres

Flagged Wetland Boundaries

Sample Points A-F

Off-site Wetland Boundaries (not flagged)

Provided by: Google Earth - Image date 4/6/2017



Grass Lake Rd & Deep Lake Rd

Lake Villa, IL

MA2242 Manhard Consulting, LTD. WATER RESOURCES **SUMMARY**

DATE OF SITE VISIT: 11/3/2022

EXHIBIT G

Created by: MGK

Appendix B: Site Photographs (Exhibit H)



Photo 1: View of turf field that encompasses the majority of the site (facing south).



Photo 2: View of the southern edge of the turf field and the start of the wetland off-site to the south (facing southwest).



Grass Lake Rd & Deep Lake Rd Lake Villa, IL, 60046

MA2242 Manhard Consulting, LTD. SITE PHOTOGRAPHS 11/3/2022

EXHIBIT H



Photo 3: View of the on-site portion of Wetland 1 and the west stormwater culvert that feeds into it (facing west).



Photo 4: Base of prairie slope and edge of wetland (facing north).



Grass Lake Rd & Deep Lake Rd Lake Villa, IL, 60046

MA2242 Manhard Consulting, LTD. SITE PHOTOGRAPHS 11/3/2022

EXHIBIT H



Photo 5: Overview of open water and emergent north edge of wetland. Adjacent to prairie slope (facing west).



Photo 6: Stormwater culvert under Deep Lake Rd. Flagged as part of WL1 (facing north).



Grass Lake Rd & Deep Lake Rd

Lake Villa, IL, 60046

MA2242 Manhard Consulting, LTD. SITE PHOTOGRAPHS 11/3/2022

EXHIBIT H



Photo 7: View of the drainage swale extending from the Deep Lake Rd culvert. Flagged as part of WL1 (facing south).

SITE PHOTOGRAPHS 11/3/2022

WETLAND DELINEATION REPORT Grass Lake Rd & Deep Lake Rd – MA2242

Appendix C: Wetland Determination Data Forms

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: MA2242	2 / Grass Lake	Rd & Deep	Lake Rd کا د		City/Cour	inty: Lake Vil	lla / Lake (County		Sampling D	ate: <u>11/3</u>	/2022
Applicant/Owner:	Manhard Con	າsulting, LTI	D.				Sta	te: <u> </u>	IL S	Sampling Po	oint:	Α
Investigator(s): Lisa I	Pajon				Section, T	Γownship, Ra	inge: NE	S28 T4	6N R10E			
Landform (hillside, te	errace, etc.): _					Local relief (c	concave, c	onvex, r	none):			
Slope (%):	Lat: 42.4396	678			Long:	-88.063754			Da	tum:		
Soil Map Unit Name:	: 840C2 Zurich	ı and Ozauk	cee silt loa	ıms				NWI	classifica	tion:		
Are climatic / hydrolo	gic conditions	on the site	typical for	this time o	f year?	Yes X	No	(If r	no, explair	n in Remar	ks.)	
Are Vegetation	, Soil,	or Hydrolog	yysi	gnificantly	disturbed? F	Are "Normal C	Circumstar	nces" pre	esent?	Yes X	No	_
Are Vegetation	_, Soil,	or Hydrolog	y <u> </u>	aturally pro	blematic? (If needed, ex	κplain any ε	answers	in Rema	rks.)		_
SUMMARY OF	FINDINGS -	– Attach	site ma	p showii	ng samplir	ng point lo	cations	, trans	sects, ir	mportan	t feature:	s, etc.
Hydrophytic Vegeta	ation Present?	Yes X	No		Is the	Sampled Ar	rea					
Hydric Soil Present		Yes X	No			n a Wetland?		Yes	Χ	No	_	
Wetland Hydrology	Present?	Yes X	No									
Remarks:		_								_	_	
In ditch near road												
VEGETATION -	Llee seient	ific name	a of play									
VEGETATION -	· Ose scient	inc name	s or plar	Absolute	Dominant	Indicator						
Tree Stratum	(Plot size:	30	_)	% Cover	Species?	Status	Domina	ance Te	st worksl	neet:		
1							Numbei	of Dom	ոinant Spe	ecies That		
2.							Are OBI	L, FACV	V, or FAC	:	4	(A)
3.										nt Species	4	(D)
4. 5.			·					All Strat			4	_(B)
J					=Total Cover				ninant Spe V, or FAC	cies That :	100.0%	(A/B)
Sapling/Shrub Strat	tum (Plo	ot size:	15)		1010		,	-, .	*, •	•		_ ' '
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2.								tal % Co	over of:		ultiply by:	_
			·				OBL sp		20	x 1 =	20	_
			·				FACW S		70 10	x 2 = x 3 =	140 30	_
5.			 -	10	=Total Cover		FAC spo		10	x 3 = x 4 =	40	_
Herb Stratum	(Plot size:	5)		-10101 00.0.		UPL spe	•	0	x 5 =	0	_
1. Phalaris arundin	` _		- ′	50	Yes	FACW		Totals:	110	(A)	230	(B)
2. Typha angustifo	olia			20	Yes	OBL	Prev	alence I	Index = B	/A =	2.09	_
3. Symphyotrichum		ie .		20	Yes	FACW						
4. Solidago altissir	па			10	No	FACU			_	Indicators		
5.										drophytic V	/egetation	
6. 7.			 .						nce Test ince Index			
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9.								•	•		arate sheet)	
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Dama de Uneludo	t-ts sumbor	L or or	- canore		- Total Gover		FIGGE		168 /			
Remarks: (Include	photo numbers	s here or or	i a separa	te sneet.)								

SOIL Sampling Point: A

Hydric Soil Indicators: Histosol (A1) Sandy Gleyed Matrix (S4) Coa Histic Epipedon (A2) Sandy Redox (S5) Iron Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Redox Depressions (F8) Indicators Remarks: Hydric Soil Presen Remarks: Hydric Soil Presen Seconda Surface Water (A1) High Water Table (A2) X Saturation (A3) True Aquatic Fauna (B13) Defit Deposits (B2) Oxidized Reduced Iron (C4) Sandy Matrix (F2) Depth (Inches): Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wett Bedox Depressions (F8) Hydric Soil Presen Bedox Depressions (F8) Unleading To the Mydric Soil Presen Bedox Depressions (F8) Hydric Soil Presen Seconda Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Depair X Saturation (A3) True Aquatic Plants (B14) Water Marks (B1) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Sati Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geo	Remarks Small Gravel, Wet, Silty Distinct redox concentration
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Hydric Soil Indicators:	
Hydric Soil Indicators:	
Hydric Soil Indicators:	
Hydric Soil Indicators:	n: PL=Pore Lining, M=Matrix.
Histic Epipedon (A2)	ors for Problematic Hydric Soils ³
Black Histic (A3) Stripped Matrix (S6) Red Hydrogen Sulfide (A4) Dark Surface (S7) Very Stratified Layers (A5) Loamy Mucky Mineral (F1) Othe 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) X Thick Dark Surface (A12) Redox Dark Surface (F6) Sindicato Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetl 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unle Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present Remarks: Primary Indicators (minimum of one is required; check all that apply) Seconds Surface Water (A1) Water-Stained Leaves (B9) Surf High Water Table (A2) Aquatic Fauna (B13) Drai X Saturation (A3) True Aquatic Fauna (B13) Drai X Saturation (A3) True Aquatic Plants (B14) Dry- Water Marks (B1) Hydrogen Sulfide Odor (C1) Cray Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Satu Drift Deposits (B3) Presence of Reduced Iron (C4) Stur Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geo Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches):	st Prairie Redox (A16)
Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Mucky Mineral (F1) Cothe Corn Muck (A10) Depleted Below Dark Surface (A11) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Redox Depressions (F8) Redox Depressions (F8) Whydric Soil Present Remarks: Hydric Soil Present Hydric Soil Present Hydric Soil Present Saturation (A3) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Diff Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Iron Muck Surface (C7) Saturation Visible on Aerial Imagery (B7) Saturation Present? Yes No Depth (inches): Surface Mater (A1) Saturation (A2) Surfaced Deposits (B2) Diff Deposits (B3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Saparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Other (Explain in Remarks) Wetland Hydrologincludes capillary fringe)	-Manganese Masses (F12)
Stratified Layers (A5) Loamy Mucky Mineral (F1) Othe 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) A Thick Dark Surface (A12) Redox Dark Surface (F6) A Indicator Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetl 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) Unle Restrictive Layer (if observed): Type: Depth (inches): Remarks: Water Stained Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Seconds Surface Water (A1) Water-Stained Leaves (B9) Surf High Water Table (A2) Aquatic Fauna (B13) Dry Water Marks (B1) Hydrogen Sulfide Odor (C1) Cray Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Satt Drift Deposits (B3) Presence of Reduced Iron (C4) Stur Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geo Iron Deposits (B5) Thin Muck Surface (C7) X FAC Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks)	Parent Material (F21)
Stratified Layers (A5) Loamy Mucky Mineral (F1) Othe 2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Article (A12) Redox Dark Surface (F6) Alniciator Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wet 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unle Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present Semarks: Image: Primary Indicators (minimum of one is required; check all that apply) Secondary Surface Water (A1) Water-Stained Leaves (B9) Surface Water (A1) Aquatic Fauna (B13) Driy Water Marks (B1) Hydrogen Sulfide Odor (C1) Cray Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Satt Drift Deposits (B3) Presence of Reduced Iron (C4) Stur Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geo Iron Deposits (B5) Thin Muck Surface (C7) X FAC Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Selficed Water Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation P	/ Shallow Dark Surface (F22)
2 cm Muck (A10) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) X Thick Dark Surface (A12) Redox Dark Surface (F6) 3 Indicate Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetl 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unle Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present Remarks:	er (Explain in Remarks)
Depleted Below Dark Surface (A11) X Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Som Mucky Peat or Peat (S3) Depleted Dark Surface (F7) Wetl Som Mucky Peat or Peat (S3) Depleted Dark Surface (F7) Wetl Som Mucky Peat or Peat (S3) Redox Depressions (F8) Unle Restrictive Layer (if observed): Type: Depth (inches): Perimary Indicators (Minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Asaturation (A3) True Aquatic Plants (B14) Drift Deposits (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Wetland Hydrolog	,
X Thick Dark Surface (A12) Redox Dark Surface (F6) 3Indicator Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wett Soft Mucky Peat or Peat (S3) Redox Depressions (F8) unles Restrictive Layer (if observed): Type: Depth (inches): Hydric Soil Present Remarks: Primary Indicators (minimum of one is required; check all that apply) Seconda Surface Water (A1) Water-Stained Leaves (B9) Surfaligh Water Table (A2) Aquatic Fauna (B13) Drai X Saturation (A3) True Aquatic Plants (B14) Dry. Water Marks (B1) Hydrogen Sulfide Odor (C1) Cray Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturalian (B3) Presence of Reduced Iron (C4) Stur Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) X Geo Iron Deposits (B5) Thin Muck Surface (C7) X FAC Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes No Dept	
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wett 5 cm Mucky Peat or Peat (S3) Redox Depressions (F8) unle Restrictive Layer (if observed): Type: Depth (inches): Remarks: Hydric Soil Present Seconda Surface Water (A1)	ors of hydrophytic vegetation and
Restrictive Layer (if observed): Type: Depth (inches): Primary Indicators (minimum of one is required; check all that apply) Seconda	and hydrology must be present,
Type:	ess disturbed or problematic.
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Water-Stained Leaves (B9) Aquatic Fauna (B13) True Aquatic Plants (B14) Dry-Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table Present? Water Table Present? Water Table Present? Yes No X Depth (inches): Surface Water Present? Water Table Present? Yes X No Depth (inches): Saturation Present? Saturation Present? Yes X No Depth (inches): Saturation Present? Saturation Present? Yes X No Depth (inches): Saturation Present? Saturation Present? Yes X No Depth (inches): Saturation Present? Saturation Present? Yes X No Depth (inches): Saturation Present?	
Remarks: Semarks Sema	
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Pywater Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Ves No Depth (inches): Saturation Present? Ves X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Secondact Secon	nt? Yes <u>X</u> No
Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Water Table Present? Yes No X Depth (inches): Surface Water Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes Yes X No Depth (inches): Yes Yes Yes Yes Yes Yes Yes Ye	
Primary Indicators (minimum of one is required; check all that apply) Surface Water (A1) High Water Table (A2) X Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Surface Water Table Present? Water Table Present? Yes No X Water Stained Leaves (B9) Aquatic Fauna (B13) Drai Aquatic Fauna (B14) Aquatic Fauna (B14) Dry- Cray Aquatic Fauna (B14) Aquatic Fauna (B14) Dry- Water Aquatic Plants (B14) Presence of Reduced Iron (C1) Sturface Water Iron Reduction in Tilled Soils (C6) X Geo Thin Muck Surface (C7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Wetland Hydrological Present (Inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes Yes X No Depth (inches): Saturation Present? Yes Yes X No Depth (inches): Saturation Present? Yes Yes X No Depth (inches): Yes Yes Yes Yes Yes Yes Yes Ye	
Surface Water (A1) Water-Stained Leaves (B9) Surface Water (A2) Aquatic Fauna (B13) Drail X Saturation (A3) True Aquatic Plants (B14) Dry- Water Marks (B1) Hydrogen Sulfide Odor (C1) Cray Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Deposits (B3) Presence of Reduced Iron (C4) Sturnon Deposits (B5) Recent Iron Reduction in Tilled Soils (C6) X Geo Iron Deposits (B5) Thin Muck Surface (C7) X FAC Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes X No Depth (inches): Wetland Hydrological Concludes Capillary fringe) Wetland Hydrological Concludes Capillary fringe)	
High Water Table (A2) Aquatic Fauna (B13) True Aquatic Plants (B14) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Marks (B1) Aquatic Fauna (B13) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Cray Oxidized Rhizospheres on Living Roots (C3) Satu Presence of Reduced Iron (C4) X Geo Thin Muck Surface (C7) A FAC Gauge or Well Data (D9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Wetland Hydrological Plants Wetland Hydrological Plants Surface Water Pringe)	ary Indicators (minimum of two req
X Saturation (A3) True Aquatic Plants (B14) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Wetland Hydrological Plants (B14) Dry- Cray C	ace Soil Cracks (B6)
Water Marks (B1)	nage Patterns (B10)
Sediment Deposits (B2) Drift Deposits (B3) Presence of Reduced Iron (C4) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Field Observations: Surface Water Present? Water Table Present? Yes No X No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Wetland Hydrological C3 Saturation Present? Wetland Hydrological C3 Saturation Present? Saturation Present? Oxidized Rhizospheres on Living Roots (C3) Saturation in Reduction in Tilled Soils (C6) X Geo X FAC Geo Thin Muck Surface (C7) Saturation in Tilled Soils (C6) X FAC Geo Thin Muck Surface (C7) Sturned Soils (C6) X FAC Thin Muck Surface (C7) Sturned Soils (C6) Thin Muck Surface (C7) Sturned Soils (C6) Thin Muck Surface (C7) Thi	Season Water Table (C2)
Drift Deposits (B3) Presence of Reduced Iron (C4) Stur Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Surface Water Present? Water Table Present? Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Surface Water Present? Yes X No Depth (inches): Saturation Present?	yfish Burrows (C8)
Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Surface Water Present? Water Table Present? Yes No X Recent Iron Reduction in Tilled Soils (C6) X FAC Gauge or Well Data (D9) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): Wetland Hydrological Concludes Capillary fringe)	uration Visible on Aerial Imagery (0 nted or Stressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes X No Depth (inches): Saturation Present? Yes X No Depth (inches): Signaturation Present? Yes X No Depth (inches): Wetland Hydrological Processing Principles (includes capillary fringe)	morphic Position (D2)
Inundation Visible on Aerial Imagery (B7) Gauge or Well Data (D9) Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): Wetland Hydrological Staturation Present?	C-Neutral Test (D5)
Sparsely Vegetated Concave Surface (B8) Other (Explain in Remarks) Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	-Neutral Test (D3)
Field Observations: Surface Water Present? Yes No X Depth (inches): Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches): Saturation Present? Yes X No Depth (inches): 3 Wetland Hydrological (includes capillary fringe)	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	ogy Present? Yes X No
	gy Present? Yes X No
	gy Present? Yes X No
Remarks:	egy Present? Yes X No

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: MA2242 / Grass Lake Rd & Deep Lake	Rd	City/County: Lake Villa / Lake County Sampling Date: 11/3/2022					
Applicant/Owner: Manhard Consulting, LTD.				State: IL	Sampling Point:	В	
Investigator(s): Lisa Pajon	_	Section, To	ownship, Ra	nge: NE S28 T46N R10	0E		
Landform (hillside, terrace, etc.):		L	_ocal relief (d	concave, convex, none):			
Slope (%): Lat: 42.439678		Long:8	88.063754		Datum:		
Soil Map Unit Name: 840C2 Zurich and Ozaukee silt	loams			NWI classif			
Are climatic / hydrologic conditions on the site typical	for this time of y	ear? `	Yes X	No (If no, exp	olain in Remarks.)		
Are Vegetation, Soil, or Hydrology	•					lo	
Are Vegetation , Soil , or Hydrology				xplain any answers in Rer			
SUMMARY OF FINDINGS – Attach site n					,	atures, etc.	
Hydrophytic Vegetation Present? Yes X	No	Is the	Sampled A	rea			
	No X		a Wetland		No X		
	No X						
Remarks:							
Turf upland point							
VEGETATION – Use scientific names of p		Daminont	la disotor	T			
Tree Stratum (Plot size: 30)		Dominant Species?	Indicator Status	Dominance Test wor	ksheet:		
1				Number of Dominant S			
2.				Are OBL, FACW, or FA	•	1 (A)	
3.	<u> </u>			Total Number of Domi	nant Species		
4				Across All Strata:		1 (B)	
5		· · · · · · · · · · · · · · · · · · ·		Percent of Dominant S	•	///D)	
Sapling/Shrub Stratum (Plot size: 15		otal Cover		Are OBL, FACW, or FA	AC:	00.0% (A/B)	
1. (Flot size: 13	_'			Prevalence Index wo	rksheet:		
2.				Total % Cover of:		y by:	
3.				OBL species 0	x 1 =	0	
4.	<u>-</u>			FACW species 0	x 2 =	0	
5				FAC species 80		240	
	=To	otal Cover		FACU species 30		120	
Herb Stratum (Plot size: 5)	70		540	UPL species 0		0 (D)	
Poa pratensis Destrilia glamarata	70	Yes	FACU	Column Totals: 11	`	360 (B)	
Dactylis glomerata Taraxacum officinale		No No	FACU FACU	Prevalence Index =	= B/A = <u>3.2</u>		
4. Plantago major	10 10	No No	FAC	Hydrophytic Vegetati	ion Indicators:		
5.			1710	1 - Rapid Test for		tation	
6.				X 2 - Dominance Te			
7.				3 - Prevalence Inc			
8.				4 - Morphological	. ,		
9.	<u> </u>			data in Remark	s or on a separate	sheet)	
10				Problematic Hydro	ophytic Vegetation	¹ (Explain)	
Woody Vine Stratum (Plot size: 30	110=To	otal Cover		¹ Indicators of hydric so be present, unless dis			
1.	<u> </u>			Hydrophytic			
2				Vegetation			
	=To	otal Cover		Present? Yes	X No	_	
Remarks: (Include photo numbers here or on a sep	arate sheet.)					_	

SOIL Sampling Point: B

Profile Desc	cription: (Describe	o the depth	needed to docu	ıment th	e indica	tor or c	onfirm the al	bsence of ind	icators.)	
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Textu	ire	Remarks	
0-6	10YR 2/1	100					Loamy/C	layey	Silty	
6-10	2.5Y 4/4	80	10YR 2/1	20			Loamy/C	Clayey	Gravel	
	oncentration, D=Depl	etion, RM=F	Reduced Matrix, N	/IS=Masi	ked Sand	Grains			=Pore Lining, M=Mat	
Hydric Soil			Canaly Cla	al Mat	miss (C.4)				r Problematic Hydric	Solis":
Histosol	oipedon (A2)		Sandy Gle Sandy Re	•	fix (54)		-		iirie Redox (A16) ganese Masses (F12)	
	stic (A3)		Stripped N		3)		-		gariese wasses (F12) nt Material (F21)	•
	n Sulfide (A4)		Dark Surfa)		-		low Dark Surface (F2	2)
	l Layers (A5)		Loamy Mu	` '	eral (F1)		-		plain in Remarks)	,
	ick (A10)		Loamy Gle	•	` '		-		p.a toa)	
l ——	d Below Dark Surface	(A11)	Depleted I							
	ark Surface (A12)	,	Redox Da	•			:	³ Indicators of I	hydrophytic vegetatio	n and
Sandy M	lucky Mineral (S1)		Depleted I	Dark Sur	face (F7)	1		wetland h	ydrology must be pre	sent,
5 cm Mu	icky Peat or Peat (S3)	Redox De	pression	s (F8)			unless dis	turbed or problemation	С.
Restrictive	Layer (if observed):									
Type:										
Depth (in	nches):		_				Hydric Soi	I Present?	Yes	No_X
HYDROLO	OGY									
Wetland Hy	drology Indicators:									
1	cators (minimum of o	ne is require	ed; check all that	apply)				Secondary Inc	dicators (minimum of	two required)
	Water (A1)	•	Water-Sta		ves (B9)				oil Cracks (B6)	
High Wa	iter Table (A2)		Aquatic Fa	auna (B1	3)			Drainage	Patterns (B10)	
Saturation	on (A3)		True Aqua	itic Plant	s (B14)		_	Dry-Seaso	on Water Table (C2)	
	larks (B1)		Hydrogen	Sulfide (Odor (C1))	-	Crayfish E	Burrows (C8)	
	nt Deposits (B2)		Oxidized F			-	oots (C3)		n Visible on Aerial Ima	, ,
· — ·	oosits (B3)		Presence			. ,			r Stressed Plants (D1	1)
ı —	at or Crust (B4)		Recent Iro			lled Soil	ls (C6)		hic Position (D2)	
	osits (B5)		Thin Muck		` '		-	FAC-Neut	tral Test (D5)	
	on Visible on Aerial Ir Vegetated Concave	, ,			, ,					
		Odriace (De	<u> </u>	Jiaiii iii i	cinarks)					
Field Obser Surface Wat		e	No X	Depth (i	nches).					
Water Table			No X		nches):					
Saturation P			No X	Depth (i	_		Wetland	Hydrology Pr	esent? Yes	No X
(includes cap				(.	_			.,		
	corded Data (stream	gauge, mon	itoring well, aeria	l photos,	previous	sinspec	tions), if avail	able:		
	,		-			•	,			
Remarks:										
No Hydro										

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: MA224	2 / Grass Lake	₃ Rd & Deep	Lake Rd		City/Cour	nty: <u>Lake Vi</u>	lla / Lake (County		Samplir	ng Date	e: <u>11/3/</u>	2022
Applicant/Owner:	Manhard Con	nsulting, LTD) <u>. </u>				Sta	ite: I	IL	Samplin	ıg Poin	ıt:	С
Investigator(s): Lisa	Pajon				Section, T	Гownship, Ra	inge: NE	S28 T4	6N R10E	<u> </u>			
Landform (hillside, te	errace, etc.):					Local relief (d	concave, c	onvex,	none):				
Slope (%):	Lat: 42.4390	678			Long:	-88.063754			D:	atum:			
Soil Map Unit Name	: 530D2 Ozaul	kee silt loam						NWI	classific	ation:			
Are climatic / hydrolo	ogic conditions	on the site t	ypical for	this time o	f year?	Yes X	No	(If	no, expla	ain in Re	marks.	.)	
Are Vegetation	, Soil,	or Hydrology	/si	gnificantly o	disturbed? F	Are "Normal (Circumstar	nces" pr	esent?	Yes	X	No	_
Are Vegetation	_, Soil,	or Hydrology	n	aturally prol	blematic? (If needed, ex	cplain any	answers	s in Rema	arks.)			
SUMMARY OF	FINDINGS -	– Attach s	ite ma	p showii	ng samplir	ng point lo	ocations	, trans	sects,	import	tant f	eatures	s, etc.
Hydrophytic Vegeta	ation Present?	Yes X	No		Is the	Sampled A	rea						
Hydric Soil Present	t?	Yes X	No		withir	n a Wetland?	?	Yes	Χ	No_			
Wetland Hydrology	Present?	Yes X	No										
Remarks:							_						
In wetland													
\'COETATION	11		- £l	e									
VEGETATION -	- Use scient	lific names	or plai	Absolute	Dominant	Indicator	г						
Tree Stratum	(Plot size:	30)	% Cover	Species?	Status	Domina	ance Te	st works	sheet:			
1. Salix nigra				40	Yes	OBL			ninant Sp		hat		
2							Are OB	L, FACV	N, or FA	C:	_	3	(A)
3.			 .						of Domina	ant Spec	cies	_	(5)
4. 5.			·					All Strat			_	3	_(B)
5.			·	40	=Total Cover				ninant Sp <i>N</i> , or FA0			100.0%	(A/B)
Sapling/Shrub Stra	itum (Plc	ot size: 1	15)		-10tai 00vc.		AIC O.D	L, 17.0.	V, OI 17.	O .		100.070	_ (~, 5)
Salix interior				30	Yes	FACW	Prevale	ence Inc	dex work	sheet:			
2.							То	otal % Co	over of:		Multi	ply by:	_
3.							OBL sp		130		1 =	130	_
			·					species			2 =	80	_
5			<u> </u>	30	=Total Cover		FAC sp		0		3 = 4 =	0	-
Herb Stratum	(Plot size:	5)	30	- I Ulai Guvei		UPL sp	•	0		4 - <u> </u>	0	-
Carex stipata	(.′	90	Yes	OBL	•	Totals:			Ŭ —	210	(B)
2. Phalaris arundir	nacea			10	No	FACW	Prev	alence l	Index = I	``	1	.24	- ` ′
3.													
4								•	egetatio				
5.			·						est for H			jetation	
6.			<u> </u>						ince Test ince Inde				
7. 8.			<u> </u>									ovide sup	norting
9.									-		•	ite sheet)	
10.							Pro	blemati	c Hydrop	hytic Ve	getatio	on¹ (Expla	ain)
Manda Vino Stratu	(Dk	-+ -i, (100	=Total Cover			-	-			ydrology	must
Woody Vine Stratu			30)				· ·		ess distu	rbea oi	problei	natic.	
1			— .				Hydrop Vegeta	-					
					=Total Cover		Presen		Yes_	X	No_		
Remarks: (Include	photo number	s here or on	a separa	te sheet.)									
l .													l.

SOIL Sampling Point: C

Depth	Matrix		Redo	x Featur				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 2/1	100					Loamy/Clayey	Small Gravel, Wet, Silty
14-20	10YR 4/2	70	10YR 2/1	20			Loamy/Clayey	
			10YR 5/4	10	С	М		Distinct redox concentration
								-
Type: C=Co	oncentration, D=Dep	etion. RM	=Reduced Matrix. N	/S=Masl	ed San	d Grains.	² Locatio	on: PL=Pore Lining, M=Matrix.
lydric Soil								ors for Problematic Hydric Soils ³ :
Histosol	(A1)		Sandy Gle	yed Mat	rix (S4)		Co	ast Prairie Redox (A16)
Histic Ep	ipedon (A2)		Sandy Red	dox (S5)			Iro	n-Manganese Masses (F12)
Black His	stic (A3)		Stripped M	/latrix (Se	3)		Re	d Parent Material (F21)
Hydroge	n Sulfide (A4)		Dark Surfa	ace (S7)			Ve	ry Shallow Dark Surface (F22)
Stratified	Layers (A5)		Loamy Mu	icky Mine	eral (F1)		Oth	ner (Explain in Remarks)
2 cm Mu	ck (A10)		Loamy Gle	eyed Mat	rix (F2)			
Depleted	Below Dark Surface	(A11)	Depleted N	√atrix (F	3)			
X Thick Da	rk Surface (A12)		Redox Dai	rk Surfac	e (F6)		³ Indicat	ors of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted [Oark Sur	face (F7)	we	land hydrology must be present,
5 cm Mu	cky Peat or Peat (S3	6)	Redox De	pression	s (F8)		unl	ess disturbed or problematic.
Restrictive I	Layer (if observed):							
	Layer (ii observea).							
Type:	Luyer (ii observeu).							
Depth (ir			<u> </u>				Hydric Soil Prese	nt? Yes <u>X</u> No
Depth (ir	nches):		_				Hydric Soil Prese	nt? Yes <u>X</u> No
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No
Depth (ir Remarks: YDROLO Vetland Hyd	nches):		irod: chack all that	annik)				
Depth (ir Pepth	nches): GY drology Indicators: cators (minimum of o				was (BQ)		Second	ary Indicators (minimum of two requ
Depth (ir Remarks: YDROLO Vetland Hyde Surface Verimary Indice	orches): OGY drology Indicators: cators (minimum of o		Water-Sta	ined Lea)	Second	lary Indicators (minimum of two requ
Depth (ir Remarks: YDROLO Vetland Hyd Primary Indic Surface V High Wa	orches): OGY drology Indicators: cators (minimum of orwater (A1) ter Table (A2)		Water-Sta Aquatic Fa	ined Lea auna (B1	3))	<u>Second</u> Sul Dra	ary Indicators (minimum of two requiface Soil Cracks (B6) uinage Patterns (B10)
Primary Indicates Surface Surface Saturation	drology Indicators: eators (minimum of o Water (A1) ter Table (A2) on (A3)		Water-Sta Aquatic Fa True Aqua	iined Lea auna (B1 atic Plant	3) s (B14)		Second Sui Dra Dry	ary Indicators (minimum of two requ face Soil Cracks (B6) ninage Patterns (B10) r-Season Water Table (C2)
Primary India Surface Surface Surface Water M	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1)		Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea auna (B1 atic Plant Sulfide (3) s (B14) Odor (C1)	Second Sul Dra Dry Cre	lary Indicators (minimum of two requ face Soil Cracks (B6) hinage Patterns (B10) r-Season Water Table (C2) hyfish Burrows (C8)
YDROLO Yetland Hyo Surface V High Wa Saturatic Water M Sedimen	drology Indicators: eators (minimum of o Water (A1) ter Table (A2) on (A3)		Water-Sta Aquatic Fa True Aqua	iined Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1 eres on) Living Ro	Second Sul Dra Dry Cra coots (C3) Second	ary Indicators (minimum of two requ face Soil Cracks (B6) ninage Patterns (B10) r-Season Water Table (C2)
YDROLO YDROLO Vetland Hyd Surface High Wa Saturatic Water M Sedimen Drift Dep	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) it Deposits (B2)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plants Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1 eres on ced Iron) Living Ro (C4)	Second Su Dra Dra Cra coots (C3) Sa Stu	lary Indicators (minimum of two requiface Soil Cracks (B6) hinage Patterns (B10) r-Season Water Table (C2) hyfish Burrows (C8) huration Visible on Aerial Imagery (C
Depth (ir Remarks: IYDROLO Wetland Hyde Primary Indic Surface Water M Saturation Water M Sedimen Drift Dep Algal Ma	drology Indicators: eators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3)		Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plant: Sulfide (Rhizospho of Reduc	3) s (B14) Odor (C1 eres on ced Iron tion in T) Living Ro (C4)	Second Sulphi S	lary Indicators (minimum of two requiface Soil Cracks (B6) lainage Patterns (B10) la-Season Water Table (C2) layfish Burrows (C8) lauration Visible on Aerial Imagery (C) lated or Stressed Plants (D1)
Primary Indices Wetland Hydro Primary Indices High Wa Saturatice Water M Sedimen Drift Dep Algal Ma Iron Dep	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) ott Deposits (B2) oosits (B3) ot or Crust (B4)	ne is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 atic Plant: Sulfide C Rhizospho of Reduc on Reduc s Surface	3) s (B14) Odor (C1 eres on ced Iron tion in T) Living Ro (C4)	Second Sulphi S	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) r-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Canted or Stressed Plants (D1) comorphic Position (D2)
Primary Indic Surface High Water M Sedimen Drift Dep Algal Ma Iron Dep Inundation	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) t or Crust (B4) osits (B5)	ne is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V	ined Lea auna (B1 Sulfide (Rhizospho of Reduc on Reduc c Surface Well Dat	3) s (B14) Odor (C1 eres on ced Iron tion in T (C7) a (D9)) Living Ro (C4) illed Soil:	Second Sulphi S	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) r-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Canted or Stressed Plants (D1) comorphic Position (D2)
Primary India Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) ot or Crust (B4) osits (B5) on Visible on Aerial In	ne is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V	ined Lea auna (B1 Sulfide (Rhizospho of Reduc on Reduc c Surface Well Dat	3) s (B14) Odor (C1 eres on ced Iron tion in T (C7) a (D9)) Living Ro (C4) illed Soil:	Second Sulphi S	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) r-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Canted or Stressed Plants (D1) comorphic Position (D2)
Primary India Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely	drology Indicators: cators (minimum of o Water (A1) ter Table (A2) on (A3) arks (B1) ot Deposits (B2) osits (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations:	ne is requ magery (B Surface (Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	ined Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc on Reduc s Surface Well Dat blain in R	3) s (B14) Odor (C1 eres on ced Iron tion in T (C7) a (D9) temarks)) Living Ro (C4) illed Soil	Second Sulphi S	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) r-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Canted or Stressed Plants (D1) comorphic Position (D2)
Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observ Surface Water Table	drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) oosits (B3) t or Crust (B4) oosits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye Present?	magery (B Surface (Water-Sta	ined Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc on Reduc s Surface Well Dat blain in R Depth (ii	3) s (B14) Odor (C1 eres on ced Iron tion in T (C7) a (D9) demarks) nches):) Living Ro (C4) illed Soil	Second Su Dra Dra Cra Soots (C3) Sa Stu St (C6) X Ge X FA	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) n-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Canted or Stressed Plants (D1) nomorphic Position (D2) C-Neutral Test (D5)
Depth (ir Remarks: IYDROLO Wetland Hyde Primary Indic Surface High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observ Surface Water Water Table Saturation Prince Saturation Prince Saturation Prince Depth (ir Surface Water Table Saturation Prince Saturation Sat	drology Indicators: cators (minimum of of of water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) arks (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye resent? Ye	magery (B Surface (Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or 1 B8) Other (Exp	ined Lea auna (B1 atic Plants Sulfide C Rhizosph of Reduc on Reduc s Surface Well Dat blain in R	3) s (B14) Odor (C1 eres on ced Iron tion in T (C7) a (D9) demarks) nches):) Living Ro (C4) illed Soil	Second Sulphi S	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) n-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Canted or Stressed Plants (D1) nomorphic Position (D2) C-Neutral Test (D5)
Depth (ir Remarks: IYDROLO Wetland Hyde Primary Indic Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observation Princludes cap	drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Present? Ye resent? Ye poillary fringe)	magery (B Surface (s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	ined Lea auna (B1 atic Plants Sulfide C Rhizospho of Reduc on Reduc Surface Well Data blain in R Depth (ii Depth (ii	3) s (B14) Dodor (C1 eres on ted Iron tion in T (C7) a (D9) temarks) nches): nches):) Living Ro (C4) illed Soil:	Second Sulphi	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) n-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Conted or Stressed Plants (D1) comorphic Position (D2) C-Neutral Test (D5)
Depth (ir Remarks: IYDROLO Wetland Hyde Primary Indic Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observation Processory Surface Water Table Saturation Processory Includes cap	drology Indicators: cators (minimum of of of water (A1) ter Table (A2) on (A3) arks (B1) arks (B1) arks (B3) t or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Ye resent? Ye	magery (B Surface (s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	ined Lea auna (B1 atic Plants Sulfide C Rhizospho of Reduc on Reduc Surface Well Data blain in R Depth (ii Depth (ii	3) s (B14) Dodor (C1 eres on ted Iron tion in T (C7) a (D9) temarks) nches): nches):) Living Ro (C4) illed Soil:	Second Sulphi	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) n-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Canted or Stressed Plants (D1) nomorphic Position (D2) C-Neutral Test (D5)
Depth (ir Remarks: IYDROLO Wetland Hyde Primary Indic Surface V High Wa Saturatic Water M Sedimen Drift Dep Algal Ma Iron Dep Inundatic Sparsely Field Observation Processory Surface Water Table Saturation Processory Includes cap	drology Indicators: cators (minimum of or Water (A1) ter Table (A2) on (A3) arks (B1) at Deposits (B2) osits (B3) at or Crust (B4) osits (B5) on Visible on Aerial In Vegetated Concave vations: er Present? Present? Ye resent? Ye poillary fringe)	magery (B Surface (s s	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck 7) Gauge or V B8) Other (Exp	ined Lea auna (B1 atic Plants Sulfide C Rhizospho of Reduc on Reduc Surface Well Data blain in R Depth (ii Depth (ii	3) s (B14) Dodor (C1 eres on ted Iron tion in T (C7) a (D9) temarks) nches): nches):) Living Ro (C4) illed Soil:	Second Sulphi	lary Indicators (minimum of two requiface Soil Cracks (B6) ninage Patterns (B10) n-Season Water Table (C2) nyfish Burrows (C8) curation Visible on Aerial Imagery (Canted or Stressed Plants (D1) nomorphic Position (D2) C-Neutral Test (D5)

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: MA2242 / Grass Lake Rd & Deep Lake Rd		City/Cour	nty: <u>Lake Vi</u>	illa / Lake County	Sampling Date:	11/3/2022
Applicant/Owner: Manhard Consulting, LTD.				State: IL	Sampling Point:	D
Investigator(s): Lisa Pajon		Section, T	ownship, Ra	ange: NE S28 T46N R10	0E	
Landform (hillside, terrace, etc.):			_ocal relief (concave, convex, none):		
Slope (%): Lat: 42.439678		Long: -{	88.063754		Datum:	
Soil Map Unit Name: 840C2 Zurich and Ozaukee silt loar	ms			NWI classif	•	
Are climatic / hydrologic conditions on the site typical for	this time o	f year?	Yes X	No (If no, exp	olain in Remarks.)	
Are Vegetation , Soil , or Hydrology sig		•				٧o
Are Vegetation, Soil, or Hydrologyna				xplain any answers in Rer		
SUMMARY OF FINDINGS – Attach site map				•	,	atures, etc.
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes No			Sampled A		No_X_	
Remarks:						
Center of slope						
NOTE TO A LIVE STORY OF THE STO						
VEGETATION – Use scientific names of plan	its. Absolute	Dominant	Indicator	1		
	% Cover	Species?	Status	Dominance Test wor	ksheet:	
1				Number of Dominant S	Species That	
2.				Are OBL, FACW, or F.	AC:	0 (A)
3				Total Number of Domi	nant Species	2 (D)
4				Across All Strata:	<u>-</u> , .	2 (B)
j		=Total Cover		Percent of Dominant S Are OBL, FACW, or F.	•	0.0% (A/B)
Sapling/Shrub Stratum (Plot size: 15)		•				, ,
1.				Prevalence Index wo	rksheet:	
2.				Total % Cover of	: Multipl	y by:
3				OBL species 0		0
4				FACW species 0		0
5				FAC species 0		0
- (Distains)		=Total Cover		FACU species 90		360
Herb Stratum (Plot size: 5) 1. Sorghastrum nutans	45	Yes	FACU	UPL species 10 Column Totals: 10		50 410 (B)
Sorgnastrum nutaris Solidago altissima	30	Yes	FACU	Prevalence Index :	`´	
3. Baptisia alba	15	No	FACU	FIEVAIGHOU HIGGS	- D/A	<u> </u>
4. Solidago ptarmicoides	5	No	UPL	Hydrophytic Vegetati	ion Indicators:	
5. Silphium laciniatum	5	No	UPL	1 - Rapid Test for		etation
6.				2 - Dominance Te		
7.				3 - Prevalence Inc		
8.				4 - Morphological	Adaptations ¹ (Pro	vide supporting
9.				data in Remark	s or on a separate	sheet)
10				Problematic Hydro	ophytic Vegetation	ı ¹ (Explain)
Woody Vine Stratum (Plot size: 30)	100 =	=Total Cover		¹ Indicators of hydric so be present, unless dis		
1				Hydrophytic	-	
2.				Vegetation		
		=Total Cover		Present? Yes	No X	<u>. </u>
Remarks: (Include photo numbers here or on a separat	e sheet.)					

SOIL Sampling Point: D

	cription: (Describe t	o the depti	needed to docu	ıment th	e indicat	or or c	onfirm the absence o	of indicators.)
Depth	Matrix		Redo	x Feature				
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-14	10YR 2/1	100					Loamy/Clayey	Small gravel, silty
14-20	10YR 4/2	70	10YR 2/1	20		M	Loamy/Clayey	
			10YR 5/4	10	С	М		Distinct redox concentrations
1 _{Tyrney} C=C	oncentration, D=Depl	tion DM-I	Paduaad Matrix N	1C=Maal	ad Sand	Crains	² l coation	: PL=Pore Lining, M=Matrix.
Hydric Soil		elion, rivi-i	Reduced Matrix, I	vio-iviasr	deu Sanu	Giallis		rs for Problematic Hydric Soils ³ :
Histosol			Sandy Gle	wed Mati	riy (S4)			st Prairie Redox (A16)
	oipedon (A2)		Sandy Re	•	ix (04)			Manganese Masses (F12)
	stic (A3)		Stripped N		3)			Parent Material (F21)
	n Sulfide (A4)		Dark Surfa	•	• /			Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu		eral (F1)			er (Explain in Remarks)
	ıck (A10)		Loamy Gle	•	, ,			,
Depleted	d Below Dark Surface	(A11)	Depleted I	Matrix (F	3)			
X Thick Da	ark Surface (A12)		Redox Da	rk Surfac	e (F6)		³ Indicator	rs of hydrophytic vegetation and
Sandy M	lucky Mineral (S1)		Depleted I	Dark Surf	face (F7)		wetla	and hydrology must be present,
5 cm Mu	icky Peat or Peat (S3)	Redox De	pressions	s (F8)		unles	ss disturbed or problematic.
Restrictive	Layer (if observed):							
Type:			<u></u>					
Depth (ii	nches):						Hydric Soil Present	t? Yes X No
Remarks:								
Same hydric	soil but very dry in to	p 10"						
11)/DDG1.6								
HYDROLC								
-	drology Indicators:							
	cators (minimum of or	ne is require						ry Indicators (minimum of two required)
	Water (A1)		Water-Sta		` '			ace Soil Cracks (B6)
I —	ater Table (A2)		Aquatic Fa	,	,			nage Patterns (B10)
Saturation			True Aqua					Season Water Table (C2)
	larks (B1) nt Deposits (B2)		Hydrogen Oxidized F		, ,			fish Burrows (C8) ration Visible on Aerial Imagery (C9)
	posits (B3)		Presence			-	· · · —	ted or Stressed Plants (D1)
	at or Crust (B4)		Recent Iro		•	,		morphic Position (D2)
	oosits (B5)		Thin Muck				· · ·	-Neutral Test (D5)
	on Visible on Aerial In	nagery (B7)			` '			,
	Vegetated Concave				, ,			
Field Obser	vations:							
Surface Wat		3	No X	Depth (ii	nches):			
Water Table	Present? Yes		No X		nches):			
Saturation P	resent? Yes	; <u> </u>	No X	Depth (ii	nches):		Wetland Hydrolog	gy Present? Yes No _X_
(includes ca	pillary fringe)				' <u>-</u>			
Describe Re	corded Data (stream	gauge, mor	nitoring well, aeria	I photos,	previous	inspec	tions), if available:	
Remarks:								
No hydro								

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: MA224	2 / Grass Lake	3 Rd & Deep	Lake Rd		City/Cou	unty: Lake Vi	illa / Lak	e County		Samp	oling Da	ite: 11/3/	/2022
Applicant/Owner:	Manhard Con	nsulting, LΤΓ	D				s	State:	IL	Samp	ling Po	int:	E
Investigator(s): Lisa	Pajon				Section,	Township, Ra	inge: N	NE S28 T4	46N R10	Ε			
Landform (hillside, te	errace, etc.):					Local relief (d	concave	onvex,	none):_				
Slope (%):	Lat: <u>42.439</u> 6	678			Long:	-88.063754)atum:			
Soil Map Unit Name	: 840C2 Zurich	n and Ozauk	cee silt loar	ms				NW	I classific				
Are climatic / hydrol	ogic conditions	on the site	typical for	this time o	f year?	Yes X	No	(If	no, expl	ain in F	 Remark	(s.)	
Are Vegetation	, Soil,	or Hydrolog	jysiç	gnificantly o	disturbed?	Are "Normal (Circums	tances" p	resent?	Yes	X	No	
Are Vegetation_						(If needed, ex				-	_		_
SUMMARY OF											rtant	feature	s, etc.
Hydrophytic Vegeta	ation Present?	Yes X	No		Is the	e Sampled A	rea						
Hydric Soil Present	t?	Yes X	No		withi	in a Wetland	?	Yes	<u> </u>	No			
Wetland Hydrology	Present?	Yes X	No_										
Remarks:	f 41-11 ₂												ļ
In wetland at edge	of cattails												ļ
VECETATION	II poient	eisia nama	f plan										
VEGETATION -	- USE SCIEIT	ific name:	•	Absolute	Dominant	Indicator	T						
Tree Stratum	(Plot size:	30		% Cover	Species?	Status	Dom	inance Te	est work	sheet:			
1.							Numl	ber of Dor	minant S	pecies	That		
2							Are C	OBL, FAC	W, or FA	C:	_	3	(A)
3.								Number		ant Sp	ecies		,
4.							Acros	ss All Stra	ıta:		_	3	_(B)
5					Tatal Cover			ent of Don			That	400.0%	/ / / / D \
Sapling/Shrub Stra	itum (Plo	ot size:	15)		=Total Cover	•	Alec	OBL, FAC	W, OI FA	.C:	-	100.0%	_(A/B)
1.	<u>tum</u> (1.10	Л 312С.	,				Prev	alence In	dex wor	ksheet			-
2								Total % C				ıltiply by:	
3								species	100		x 1 =	100	_
1							FAC	W species	s 0		x 2 =	0	_
5.							FAC	species	0		x 3 =	0	_
			-		=Total Cover			U species			x 4 = _	0	_
Herb Stratum	(Plot size:	5	_)					species	0		x 5 = _	0	
1. Typha angustifo				40	Yes	OBL		mn Totals		—`	_	100	_(B)
2. Scirpus atrovire	ens			30	Yes	OBL	Pr	revalence	Index =	B/A =		1.00	_
3. Carex stipata				30	Yes	OBL	Hydr	ophytic V	/acatatic	- n Indi	- ctors		
4. 5.							1	opnytic v 1 - Rapid∃	·				
6.			 -					i - Rapid 2 - Domina			•	3getation	
7								3 - Prevale					
												Provide su	pporting
												rate sheet)	
10.							F	² roblemat	ic Hydro	phytic \	Vegetat	tion ¹ (Expla	ain)
Woody Vine Stratu	ım (Plc	ot size:	30)	100	=Total Cover			cators of h				hydrology lematic.	must
1.	_ `							ophytic					
2.							_	etation					
					=Total Cover		Pres		Yes	X	No		
Remarks: (Include	photo number	rs here or or	n a separat	te sheet.)			<u>.l</u>						
l				,									

SOIL Sampling Point: E

inches) Color (r 0-8 10YR 8-20 10YR	moist) %						
	110ist) /0	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
8-20 10YR	2/1 98	10YR 4/6	2	С	M	Loamy/Clayey	Gravel and Debris in Top 8
	R 4/2 70	10YR 2/1	20	D	М	Loamy/Clayey	
		10YR 5/4	10	С	M		Distinct redox concentration
						2,	
Type: C=Concentration Hydric Soil Indicators:		/I=Reduced Matrix, N	/IS=Masi	ed San	d Grains.		PL=Pore Lining, M=Matrix. s for Problematic Hydric Soils ³ :
Histosol (A1)		Sandy Gle	wod Mati	iv (Q1)			t Prairie Redox (A16)
Histic Epipedon (A2)	١	Sandy Red	•	IX (34)			Manganese Masses (F12)
Black Histic (A3)	,	Stripped M	` '	:)			Parent Material (F21)
Hydrogen Sulfide (A	4)	Dark Surfa	`	,,			Shallow Dark Surface (F22)
Stratified Layers (A5	•	Loamy Mu	, ,	eral (F1)			(Explain in Remarks)
2 cm Muck (A10)	''	Loamy Gle	•	` '			(Explain in Remarke)
X Depleted Below Darl	k Surface (A11)	Depleted N					
Thick Dark Surface (Redox Dai	,	,		³ Indicator	s of hydrophytic vegetation and
Sandy Mucky Minera	` '	Depleted [` ')		nd hydrology must be present,
5 cm Mucky Peat or	` ,	Redox De		•	'		s disturbed or problematic.
Restrictive Layer (if ob	served).			, ,			·
Type:	oci veaj.						
Depth (inches):						Hydric Soil Present	? Yes X No
Remarks:						.,	
YDROLOGY							
Wetland Hydrology Ind							
Wetland Hydrology Ind Primary Indicators (minir							y Indicators (minimum of two requ
Wetland Hydrology Ind Primary Indicators (minir Surface Water (A1)	mum of one is req	Water-Sta	ined Lea			Surfa	ce Soil Cracks (B6)
Netland Hydrology Ind Primary Indicators (minir Surface Water (A1) High Water Table (A	mum of one is req	Water-Sta Aquatic Fa	ined Lea auna (B1	3)		Surfa Drain	ce Soil Cracks (B6) age Patterns (B10)
Netland Hydrology Ind Primary Indicators (minir Surface Water (A1) High Water Table (A Saturation (A3)	mum of one is req	Water-Sta Aquatic Fa True Aqua	ined Lea auna (B1 atic Plant	3) s (B14)		Surfa Drain Dry-S	ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	mum of one is requ	Water-Sta Aquatic Fa True Aqua Hydrogen	ined Lea auna (B1 atic Plants Sulfide (3) s (B14) Odor (C1)	Surfa Drain Dry-S Crayl	ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (mum of one is requ	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plant Sulfide (Rhizosph	3) s (B14) Odor (C1 eres on) Living Ro	Surfa Drain Dry-S Crayl pots (C3)Satur	ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	mum of one is requal (A2)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F	ined Lea auna (B1 atic Plants Sulfide (Rhizosph of Reduc	3) s (B14) Odor (C1 eres on ced Iron) Living Ro (C4)	Surfa Drain Dry-S Crayl pots (C3) Stunt	ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E	mum of one is requal (A2)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro	ined Lea auna (B1 atic Plant: Sulfide (Rhizospho of Reduc	3) s (B14) Odor (C1 eres on eed Iron tion in T) Living Ro (C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2)
Petland Hydrology Ind Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5)	mum of one is requal (2) (B2) (B4)	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck	ined Lea auna (B1 stic Plant: Sulfide C Rhizospho of Reduc on Reduc Surface	3) s (B14) Odor (C1 eres on eed Iron tion in T (C7)) Living Ro (C4)	Surfa	ce Soil Cracks (B6) age Patterns (B10) season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E	mum of one is requal (B2) (B2) (B4) n Aerial Imagery (I	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or V	ined Lea auna (B1 sulfide (Rhizospho of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on ed Iron tion in T (C7) a (D9)) Living Ro (C4) Iled Soil:	Surfa	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated	mum of one is requal (B2) (B2) (B4) n Aerial Imagery (I	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or V	ined Lea auna (B1 sulfide (Rhizospho of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on ed Iron tion in T (C7) a (D9)) Living Ro (C4) Iled Soil:	Surfa	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2)
Petland Hydrology Ind Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1 Iron Deposits (B5) Inundation Visible or	(B2) Aerial Imagery (I	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or V	ined Lea auna (B1 titic Plants Sulfide C Rhizosph of Reduc on Reduc Surface Well Data blain in R	3) s (B14) Odor (C1 eres on eed Iron tion in T (C7) a (D9) emarks)) Living Ro (C4) Iled Soil:	Surfa	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated	(B2) Aerial Imagery (I	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or (B8) Other (Exp	ined Lea auna (B1 sulfide (Rhizospho of Reduc on Reduc Surface Well Dat	3) s (B14) Odor (C1 eres on ted Iron tion in T (C7) a (D9) emarks)) Living Ro (C4) Illed Soil:	Surfa	ce Soil Cracks (B6) age Patterns (B10) beason Water Table (C2) ish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present?	(B2) A Aerial Imagery (I Concave Surface	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or 1 (B8) Other (Exp	ined Lea auna (B1 titic Plants Sulfide C Rhizosph of Reduc on Reduc s Surface Well Dat blain in R	s (B14) Odor (C1 eres on ted Iron tion in T (C7) a (D9) emarks) nches):) Living Ro (C4) Illed Soil:	Surfa	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present?	(B2) A Aerial Imagery (I Concave Surface Yes Yes Yes Yes Yes	Water-Sta	ined Lea auna (B1 stic Plants Sulfide C Rhizosphof Reduc on Reduc Surface Well Data Dain in R	s (B14) Odor (C1 eres on ted Iron tion in T (C7) a (D9) emarks) nches):) Living Ro (C4) Illed Soil:	Surfa Drain Dry-S Crayl Doots (C3) Satur Stunt S (C6) X Geon X FAC-	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present?	(B2) Aerial Imagery (I Concave Surface Yes Yes Yes Yes Yes	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or V (B8) Other (Exp	ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	s (B14) Dodor (C1 eres on eed Iron tion in T (C7) a (D9) emarks) nches): nches):) Living Ro (C4) Illed Soil:	Surfa Drain Dry-S Crayl Doots (C3) Satur Stunt S (C6) X Geon X FAC-	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)
Primary Indicators (mining Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Inundation Visible or Sparsely Vegetated Field Observations: Surface Water Present? Water Table Present? Saturation Present? includes capillary fringe	(B2) Aerial Imagery (I Concave Surface Yes Yes Yes Yes Yes	Water-Sta Aquatic Fa True Aqua Hydrogen Oxidized F Presence Recent Iro Thin Muck B7) Gauge or V (B8) Other (Exp	ined Lea auna (B1 tic Plants Sulfide C Rhizosph of Reduc n Reduc Surface Well Dat blain in R Depth (ii Depth (ii	s (B14) Dodor (C1 eres on eed Iron tion in T (C7) a (D9) emarks) nches): nches):) Living Ro (C4) Illed Soil:	Surfa Drain Dry-S Crayl Doots (C3) Satur Stunt S (C6) X Geon X FAC-	ce Soil Cracks (B6) age Patterns (B10) Season Water Table (C2) sish Burrows (C8) ation Visible on Aerial Imagery (C ed or Stressed Plants (D1) norphic Position (D2) Neutral Test (D5)

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Midwest Region

See ERDC/EL TR-10-16; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp:11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: MA224	2 / Grass Lake	Rd & Deep	Lake Rd		City/Cou	ınty: <u>Lake Vil</u>	la / Lake	County	S	ampling D	ate: <u>11/3</u>	3/2022
Applicant/Owner:	Manhard Con	nsulting, LTD	1.				Sta	ate: I	IL Sa	ampling Po	oint:	F
Investigator(s): Lisa I	Pajon				Section, T	Township, Rar	nge: NE	S28 T4	6N R10E			
Landform (hillside, te	errace, etc.):					Local relief (c	concave, o	convex,	none):			
Slope (%):	Lat: 42.4396	678			Long:	-88.063754			Datı	um:		
Soil Map Unit Name:								NWI	classificati	ion:		
Are climatic / hydrolo	ogic conditions	on the site t	ypical for	this time c	of year?	Yes X	No	(If	no, explain	in Remar	ks.)	
Are Vegetation	·				-							
Are Vegetation												_
SUMMARY OF											t feature	s, etc.
Hydrophytic Vegeta	ation Present?	Yes	No	Х	Is the	Sampled Ar	rea					
Hydric Soil Present		Yes X			withir	n a Wetland?	?	Yes		No_X	<u>.</u>	
Wetland Hydrology	Present?	Yes	No	Х								
Remarks:												
On slope north of C	;											
· /= OFT A TION			£l	 								
VEGETATION -	· Use scient	ific names	of plar		Deminant	to disatan						
Tree Stratum	(Plot size:	30)	Absolute % Cover	Dominant Species?	Indicator Status	Domin	ance Te	st worksh	eet:		
1.	`		<i>-'</i> _		<u> </u>				ninant Spec			
2.									N, or FAC:		2	(A)
3.							Total N	lumber c	of Dominan	t Species		_
4							Across	All Strat	ia:		4	(B)
5			<u> </u>		=				ninant Spec		75.00/	:
O !! /Ol- mult Otmod	· (Dia				=Total Cover		Are OB	L, FACV	N, or FAC:		50.0%	(A/B)
Sapling/Shrub Strat	<u>ium</u> (Pio	ot size:1	15)	40	Voo	EA C\A/	Brovel	In-				
Salix interior Pyrus calleryana				10	Yes Yes	FACW_ UPL		ence inc otal % Co	dex worksl		ultiply by:	
			·		163	UFL	OBL sp		0	x 1 =	ultiply by: 0	_
								species		_ x2=	120	_
5.							FAC sp	•	10	- x3=	30	_
·				20	=Total Cover			species	30	x 4 =	120	_
Herb Stratum	(Plot size:	5)				UPL sp		20	x 5 =	100	_
1. Equisetum hyer	nale		• <i>′</i>	50	Yes	FACW	Column	n Totals:	120	(A)	370	(B)
2. Solidago altissir	па			20	Yes	FACU	Prev	/alence l	Index = B/	A =	3.08	
3. Sorghastrum nu	ıtans			10	No	FACU						
4. Ratibida pinnata	2		<u> </u>	10	No	UPL	Hydrop	ohytic V	egetation	Indicators	5:	
5. Panicum virgatu	ım			10	No	FAC			est for Hyd		/egetation	
6									ince Test is			
7									nce Index i			
8.											(Provide su	
9.											arate sheet	
10			·	100	Total Cover					-	ation ¹ (Expl	•
Woody Vine Stratur	m (Plc	ot size: 3	30)	100	=Total Cover				ydric soil ar ess disturb		d hydrology	must
1.	<u>П</u> (гю	il size.	,					-	355 UISTULD	au oi pioo	lemanc.	
2.							Hydrop Vegeta					
					=Total Cover		Presen		Yes	No	X	
Remarks: (Include	nhoto number	e here or on	a separa	te sheet.)		[=		
	prioto manizon		и оори. и									

SOIL Sampling Point: F

		-				or or c	onfirm the absence of	f indicators.)
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)		Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-12	10YR 4/1	90	10YR 5/4	10	С	M	Loamy/Clayey	Distinct redox concentrations
	·							
 								
	oncentration, D=D	epletion, RM=F	Reduced Matrix, N	1S=Masl	ked Sand	Grains		PL=Pore Lining, M=Matrix.
Hydric Soil								s for Problematic Hydric Soils ³ :
Histosol	` '		Sandy Gle	-	, ,			t Prairie Redox (A16)
I —	pipedon (A2)		Sandy Red					Manganese Masses (F12)
	istic (A3)		Stripped M	,	5)			Parent Material (F21)
	en Sulfide (A4)		Dark Surfa		. (= 1)			Shallow Dark Surface (F22)
	d Layers (A5)		Loamy Mu	-	, ,		Other	(Explain in Remarks)
	uck (A10)	200 (811)	Loamy Gle					
	d Below Dark Surfa	ace (ATT)	X Depleted I				31	a af barduan bartia wanatatian and
	ark Surface (A12) ⁄lucky Mineral (S1)		Redox Da		` '			s of hydrophytic vegetation and
	ucky Milleral (ST) ucky Peat or Peat (Depleted [Redox De					nd hydrology must be present, s disturbed or problematic.
	•	,	Redox De	JI 6331011	3 (1 0)	I	uilles	s disturbed or problematic.
	Layer (if observe	d):						
Type:			_				Hardela Call Bassanii	0 V V N-
Depth (i	ncnes):		_				Hydric Soil Present	? Yes <u>X</u> No
Remarks:	.							
No Dark Sur	lace							
HYDROLO	OGY							
		•						
-	drology Indicator cators (minimum o		nd: check all that :	annly)			Secondar	y Indicators (minimum of two required)
	Water (A1)	i one is require	Water-Sta		ives (R9)			ce Soil Cracks (B6)
	ater Table (A2)		Aquatic Fa		, ,			age Patterns (B10)
Saturation			True Aqua					season Water Table (C2)
	larks (B1)		Hydrogen		. ,			ish Burrows (C8)
Sedimer	nt Deposits (B2)		Oxidized F		, ,			ation Visible on Aerial Imagery (C9)
Drift Dep	posits (B3)		Presence	of Reduc	ced Iron (C4)	Stunt	ed or Stressed Plants (D1)
Algal Ma	at or Crust (B4)		Recent Iro	n Reduc	tion in Til	led Soil	s (C6) Geom	norphic Position (D2)
Iron Dep	oosits (B5)		Thin Muck	Surface	e (C7)		FAC-	Neutral Test (D5)
Inundati	on Visible on Aeria	ıl Imagery (B7)	Gauge or	Well Dat	a (D9)			
Sparsely	y Vegetated Conca	ve Surface (B8	3)Other (Exp	olain in R	Remarks)			
Field Obser	vations:							
Surface Wat	ter Present?	Yes	No X	Depth (i	nches):			
Water Table		Yes	No X		nches):			
Saturation P		Yes	No X	Depth (i	nches):		Wetland Hydrolog	y Present? Yes No X
•	pillary fringe)						1	
Describe Re	ecorded Data (strea	ım gauge, mon	itoring well, aeria	I photos,	previous	inspec	tions), if available:	
Domorko								
Remarks: No hydro								
. to riyaro								

Appendix D: Threatened and Endangered Species Consultation

JB Pritzker, Governor Colleen Callahan, Director

www.dnr.illinois.gov

November 14, 2022

Lisa Pajon Natural Resources Consultant 402 W. Liberty Drive Wheaton, IL 60187

RE: Grass Lake Rd & Deep Lake Rd ment

Consultation Program
EcoCAT Review #2306326
Lake County

Dear Mrs. Pajon:

The Department has received your submission for this project for the purposes of consultation pursuant to the *Illinois Endangered Species Protection Act* [520 ILCS 10/11], the *Illinois Natural Areas Preservation Act* [525 ILCS 30/17], and Title 17 *Illinois Administrative Code* Part 1075.

The proposed action consists of the construction of a development with associated stormwater and utilities (42.440°, -88.069°).

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Illinois Natural Areas Inventory (INAI) Sites

Deep Lake Loon Lake Sun Lake

Illinois Nature Preserves Commission Lands

Sun Lake Nature Preserve

State Threatened or Endangered Species

Blanding's Turtle (Emydoidea blandingii) King Rail (Rallus elegans) Least Bittern (Ixobrychus exilis)

Due to the project scope and proximity to protected resources the Department recommends the following actions be taken to avoid adversely impacting listed species in the vicinity of the project:

Deep Lake INAI, Loon Lake INAI, Sun Lake INAI, & Sun Lake Nature Preserve

The Department has determined adverse impacts to these protected natural areas are unlikely.

Blanding's Turtle

To avoid adverse impacts to Blanding's Turtles, the Department recommends the following:

- All on-site personnel should be educated about this species and be instructed to stop work immediately and contact the Department (Brad Semel, Natural Heritage Division, 815-675-2386 ext. 216) if they are encountered in the project area. Fliers with photos of adult and juvenile Blanding's turtles, and life-history information, should be distributed to personnel.
- Exclusionary fencing should be installed around the work area, or at a minimum, to partition off any wetland areas before the active season (March 1st November 1st). Exclusionary fencing should be trenched into the ground (a minimum of 4 inches) and inspected daily for Blanding's turtles. Fencing should be installed with turn-arounds at open ends and at any access openings needed in the fencing, in order to redirect animals away from openings.
- Excavations should be inspected daily for trapped wildlife and safely covered overnight. Soil or other potential turtle nesting medium stockpiles should also have exclusionary fencing installed around the perimeter to discourage turtle nesting and potential harm.
- A permanent exclusionary barrier between any wetlands and the project site should be incorporated into project plans to prevent turtles from entering areas where they may be adversely impacted by daily activity. The barrier should include turn-arounds where needed and be trenched into the soil a minimum of 4 inches.
- If erosion control blanket is to be used, the Department also recommends that wildlife-friendly plastic-free blanket be used around wetlands and adjacent to natural areas, if not feasible to implement project wide, to prevent the entanglement of native wildlife.

King Rail & Least Bittern

To avoid adverse impacts to King Rail and Least Bittern, the Department recommends the following:

- A 50-foot buffer should be maintained on all wetlands.
- When feasible, work near wetlands should be avoided between April 1st and September 30th to avoid the prime nesting and fledging season for these protected bird species.
- Any required night lighting should follow International Dark-Sky Association (IDA) guidance to minimize the effect of light pollution on wildlife; including shielding fixtures so no light travels upward, using "warm-white" or filtered LEDs (CCT < 3,000 K) to minimize blue emission, and avoiding over-lighting.

Given the above recommendations are adopted the Department has determined that impacts to these protected resources are unlikely. The Department has determined impacts to other protected resources in the vicinity of the project location are also unlikely.

In accordance with 17 Ill. Adm. Code 1075.40(h), please notify the Department of your decision regarding these recommendations.

Consultation on the part of the Department is closed unless the applicant desires additional information or advice related to this proposal. Consultation for Part 1075 is valid for two years unless new information becomes available which was not previously considered; the proposed

action is modified; or additional species, essential habitat, or Natural Areas are identified in the vicinity. If the action has not been implemented within two years of the date of this letter, or any of the above listed conditions develop, a new consultation is necessary.

The natural resource review reflects the information existing in the Illinois Natural Heritage Database at the time of the project submittal and should not be regarded as a final statement on the project being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are unexpectedly encountered during the project's implementation, the applicant must comply with the applicable statutes and regulations.

This letter does not serve as permission to take any listed or endangered species. As a reminder, no take of an endangered species is permitted without an Incidental Take Authorization or the required permits. Anyone who takes a listed or endangered species without an Incidental Take Authorization or required permit may be subject to criminal and/or civil penalties pursuant to the *Illinois Endangered Species Act*, the *Fish and Aquatic Life Act*, the *Wildlife Code* and other applicable authority.

The Department also offers the following conservation measures be considered to help protect native wildlife and enhance natural areas in the project area:

- Good housekeeping practices should be implemented and maintained during and after construction to prevent trash and other debris from inadvertently blowing or washing into nearby natural areas.
- Post construction invasive species control should be considered, especially near any natural areas.

Please contact me with any questions about this review.

Sincerely,

Exalley Sayar Bradley Hayes

Manager, Impact Assessment Section

Division of Real Estate Services and Consultation

Office of Realty & Capital Planning

Illinois Department of Natural Resources

One Natural Resources Way

Springfield, IL 62702

Bradley.Hayes@Illinois.gov

Phone: (217) 782-0031





11/10/2022

IDNR Project Number: 2306326

Date:

Applicant: Gary R. Weber Associates, Inc.

Contact: Lisa Pajon

Address: 402 W. Liberty Drive

Wheaton, IL 60187

Project: Grass Lake Rd & Deep Lake Rd Address: Deep Lake Road, Lake Villa

Description: Proposed above ground development with associated stormwater and utilities

Natural Resource Review Results

The Illinois Natural Heritage Database shows the following protected resources may be in the vicinity of the project location:

Deep Lake INAI Site Loon Lake INAI Site Sun Lake INAI Site Sun Lake Nature Preserve

Blanding's Turtle (Emydoidea blandingii)

King Rail (Rallus elegans)

Least Bittern (Ixobrychus exilis)

An IDNR staff member will evaluate this information and contact you to request additional information or to terminate consultation if adverse effects are unlikely.

Location

The applicant is responsible for the accuracy of the location submitted for the project.

County: Lake

Township, Range, Section:

46N, 10E, 28

IL Department of Natural Resources Contact

Bradley Hayes 217-785-5500

Division of Ecosystems & Environment



Government Jurisdiction U.S. Army Corps of Engineers

Disclaimer

The Illinois Natural Heritage Database cannot provide a conclusive statement on the presence, absence, or condition of natural resources in Illinois. This review reflects the information existing in the Database at the time of this inquiry, and should not be regarded as a final statement on the site being considered, nor should it be a substitute for detailed site surveys or field surveys required for environmental assessments. If additional protected resources are encountered during the project's implementation, compliance with applicable statutes and regulations is required.

Terms of Use

By using this website, you acknowledge that you have read and agree to these terms. These terms may be revised by IDNR as necessary. If you continue to use the EcoCAT application after we post changes to these terms, it will mean that you accept such changes. If at any time you do not accept the Terms of Use, you may not continue to use the website.

- 1. The IDNR EcoCAT website was developed so that units of local government, state agencies and the public could request information or begin natural resource consultations on-line for the Illinois Endangered Species Protection Act, Illinois Natural Areas Preservation Act, and Illinois Interagency Wetland Policy Act. EcoCAT uses databases, Geographic Information System mapping, and a set of programmed decision rules to determine if proposed actions are in the vicinity of protected natural resources. By indicating your agreement to the Terms of Use for this application, you warrant that you will not use this web site for any other purpose.
- 2. Unauthorized attempts to upload, download, or change information on this website are strictly prohibited and may be punishable under the Computer Fraud and Abuse Act of 1986 and/or the National Information Infrastructure Protection Act.
- 3. IDNR reserves the right to enhance, modify, alter, or suspend the website at any time without notice, or to terminate or restrict access.

Security

EcoCAT operates on a state of Illinois computer system. We may use software to monitor traffic and to identify unauthorized attempts to upload, download, or change information, to cause harm or otherwise to damage this site. Unauthorized attempts to upload, download, or change information on this server is strictly prohibited by law.

Unauthorized use, tampering with or modification of this system, including supporting hardware or software, may subject the violator to criminal and civil penalties. In the event of unauthorized intrusion, all relevant information regarding possible violation of law may be provided to law enforcement officials.

Privacy

EcoCAT generates a public record subject to disclosure under the Freedom of Information Act. Otherwise, IDNR uses the information submitted to EcoCAT solely for internal tracking purposes.

November 21, 2022

Matt Eagle Manhard Consulting, Ltd. 116 W. Illinois Street. Chicago, IL 60604

RE: USFWS Threatened and Endangered Species I PaC Review Summary Grass Lake Rd & Deep Lake Rd, Lake Cook County, Illinois

Dear Mr. Eagle,

Gary R. Weber Associates Inc. reviewed the U.S, Fish and Wildlife Information for Planning and Consultation (IPaC) website on November 10, 2022 for federally listed threatened and endangered species. The IPaC program utilizes known or expected range of species, as well as additional areas outside of the range in which activities may indirectly affect a species. This review represents an informal consultation and further coordination with USFWS may be required for a formal consultation.

According to the IPaC consultation, seven (7) species are thought to be present in this location of Lake County (see below). Based on the 11/3/2022 site review, potential habitat for these species is not present within the project area and therefore would not negatively affect threatened or endangered species.

Site Summary:

The study area (approximately 4.97-acres) consists of a turf field with a lightly a scrub-shrub border to the north and east. The field is an elevated building pad that was constructed around 1999.

The vegetated areas are entirely maintained, with mowed turf throughout the main area, and a narrow scrub-shrub community at the north boundary. The scrub-shrub consists of a few large trees and dense dogwood around the basin.

Habitat and Requirements:

Threatened - Northern long-eared bat (Myotis septentrionalis): No Affect

According to the USFWS guidance, conditions suitable for the Northern long-eared bat (NLEB) includes wooded areas characterized by the presence of roosting trees and an herbaceous understory community. The bats will spend the summer foraging and roosting before overwintering in caves and mines from late October to April. Summer roosting trees required by the bats are characterized by mature trees containing potential roosting features (PRF) such as peeling and crevice forming bark, cavities, and dead snags. Foraging can occur in a variety of habitats including upland forests, edge habitats, wetlands, riparian buffers, and floodplain forests. An open, herbaceous understory is beneficial to supporting insect abundance for the bats to feed on.

The current site conditions contain few large trees that contain PRF, however no canopy is present and adjacent areas are either paved or maintained turf. These conditions are not suitable as habitat for the NLEB.

Endangered - Piping Plover (Charadrius melodus) No Affect

According to USFWS guidance, the piping plover is a summer resident that inhabits shoreline and coastal areas of the Great Lakes during the summer breeding season. The plover is a shorebird that prefers breeding habitat consisting of open, sparsely vegetated areas with alkali or unconsolidated substrates. Foraging habitat consist of mud flats or ephemeral pools with abundant vertebrate populations. Critical habitat has been designated for this species along the Great Lakes shoreline.

Current site conditions are not suitable for the Piping Plover.

Threatened - Red Knot (Calidris canutus rufa): No Affect

According to USFWS guidance, the red knot is primarily occurs in Illinois during migration in the spring and fall. Spring migrants arrive in May and fall migrants arrive in July. The red knot is a shorebird that typically uses sandy, open shoreline along Lake Michigan for foraging, but has also been observed at water reservoirs.

Current site conditions are not suitable for the Red Knot.

Endangered – Karner Blue Butterfly (Lycaeides melissa samuelis): No Affect

According to USFWS guidance, the karner blue butterfly require environments characterized by dry, sandy areas with open woodlands capable of supporting Wild Blue Lupine populations. The lupine is the only food source for larval butterflies as well as required for adult oviposition. Foraging adults require diverse blooming nectar resources.

Current site conditions are not suitable for the Karner Blue Butterfly due to lack of lupine presence.

Endangered - Monarch Butterfly (Danaus plexippus): No Affect

According to USFWS Species Status Assessment Report, Monarch Butterflies require environments containing both diverse blooming nectar resources for foraging during breeding and migration, and sufficient milkweed (*Asclepias spp.*) populations for oviposition and larval feeding.

Due to mowing activity and lack of wildflower presence, current site conditions are not suitable for the Monarch Butterfly.

Threatened - Eastern Prairie Fringed Orchid (Platanthera leucophaea): No Affect

According to USFWS guidance, the eastern prairie fringed orchid (EPFO) occurs in a wide variety of habitats. It requires full sun for optimum growth and can occur in tall grass silt-loam or sand prairies, sedge meadows, and fens. It is adaptive to natural patch disturbance and other dynamic disturbance regimes. It is occasionally found in successional environments.

Current site conditions are not suitable for the EPFO as there are no fens, sedge meadows, or sand prairies.

Endangered – Pitcher's Thistle (Cirsium pitcher): No Affect

According to USFWS guidance, the Pitcher's Thistle occurs in open sand dunes and beach ridges along Lake Michigan. This species was once extirpated in Illinois but has been reintroduced in Lake County.

Current site conditions are not suitable for the Pitcher's thistle.



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Chicago Ecological Service Field Office
U.s. Fish And Wildlife Service Chicago Ecological Services Office
230 South Dearborn St., Suite 2938
Chicago, IL 60604-1507
Phone: (312) 485-9337

In Reply Refer To: November 10, 2022

Project Code: 2023-0014834

Project Name: Grass Lake Rd & Deep Lake Rd

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

Additionally, please note that on March 23, 2022, the Service published a proposal to reclassify the northern long-eared bat (NLEB) as endangered under the Endangered Species Act. The U.S. District Court for the District of Columbia has ordered the Service to complete a new final listing

determination for the NLEB by November 2022 (Case 1:15-cv-00477, March 1, 2021). The bat, currently listed as threatened, faces extinction due to the range-wide impacts of white-nose syndrome (WNS), a deadly fungal disease affecting cave-dwelling bats across the continent. The proposed reclassification, if finalized, would remove the current 4(d) rule for the NLEB, as these rules may be applied only to threatened species. Depending on the type of effects a project has on NLEB, the change in the species' status may trigger the need to re-initiate consultation for any actions that are not completed and for which the Federal action agency retains discretion once the new listing determination becomes effective (anticipated to occur by December 30, 2022). If your project may result in incidental take of NLEB after the new listing goes into effect this will first need to addressed in an updated consultation that includes an Incidental Take Statement. If your project may require re-initiation of consultation, please contact our office for additional guidance.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and

recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

11/10/2022

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Chicago Ecological Service Field Office

U.s. Fish And Wildlife Service Chicago Ecological Services Office 230 South Dearborn St., Suite 2938 Chicago, IL 60604-1507 (312) 485-9337

Project Summary

Project Code: 2023-0014834

Project Name: Grass Lake Rd & Deep Lake Rd
Project Type: New Constr - Above Ground

Project Description: Proposed above ground development with associated stormwater and

utilities.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.439811750000004,-88.06377054473049,14z



Counties: Lake County, Illinois

Endangered Species Act Species

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an
office of the National Oceanic and Atmospheric Administration within the Department of
Commerce.

Mammals

NAME STATUS

Northern Long-eared Bat Myotis septentrionalis

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045

Threatened

Birds

NAME STATUS

Piping Plover Charadrius melodus

Population: [Great Lakes watershed DPS] - Great Lakes, watershed in States of IL, IN, MI, MN,

NY, OH, PA, and WI and Canada (Ont.)

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.

Species profile: https://ecos.fws.gov/ecp/species/6039

Red Knot Calidris canutus rufa

There is **proposed** critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/1864

Threatened

Endangered

Insects

NAME STATUS

Karner Blue Butterfly Lycaeides melissa samuelis

There is $\boldsymbol{proposed}$ critical habitat for this species.

Species profile: https://ecos.fws.gov/ecp/species/6656

Monarch Butterfly Danaus plexippus

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

Candidate

Endangered

Flowering Plants

NAME STATUS

Eastern Prairie Fringed Orchid Platanthera leucophaea

No critical habitat has been designated for this species.

This species only needs to be considered under the following conditions:

 Follow the guidance provided at https://www.fws.gov/midwest/endangered/section7/ s7process/plants/epfos7guide.html

Species profile: https://ecos.fws.gov/ecp/species/601

Pitcher's Thistle Cirsium pitcheri

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8153

Threatened

Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

IPaC User Contact Information

Agency: Gary R Weber Associates
Name: Michael Kellenberger
Address: 402 W. Liberty Drive

City: Wheaton

State: IL Zip: 60187

Email mkellenberger@grwainc.com

Phone: 6306687179

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LAND PLANNING ECOLOGICAL CONSULTING LANDSCAPE ARCHITECTURE

402 W. LIBERTY DRIVE WHEATON, ILLINOIS 60187 TELEPHONE: 630-668-7197 FACSIMILE: 630-668-9693

VILLAGE OF LAKE VILLA

RESOLUTION NO. 2023-04-01

A CORPORATE RESOLUTION DESIGNATING SIGNATORIES ON DEPOSITORY ACCOUNTS OF THE VILLAGE OF LAKE VILLA

ADOPTED BY THE

BOARD OF TRUSTEES

OF THE

VILLAGE OF LAKE VILLA, ILLINOIS

THIS 3th DAY OF APRIL, 2023

A CORPORATE RESOLUTION DESIGNATING SIGNATORIES ON DEPOSITORY ACCOUNTS OF THE VILLAGE OF LAKE VILLA

WHEREAS, the Corporate Authorities of the Village of Lake Villa, Lake County, Illinois (sometimes referred to herein as "the Village"), have currently designated and authorized certain banks and other financial institutions as depositories of funds of the Village and funds which may come into the possession and/or control of the Village which may be deposited and invested to the credit of the Village and/or other beneficiaries thereof by those designated officers, agents, or employees of the Village; and

WHEREAS, the Village has previously passed various resolutions (all such previously adopted resolutions collectively referred to herein as the "prior resolutions designating authorized signatories") whereby the Village authorized and designated certain Village officials to sign and/or endorse checks, drafts, and orders on behalf of the Village, and the Village now desires to repeal all of the aforesaid prior resolutions designating authorized signatories, and any other similar resolution previously adopted by the Village relative to the designation of Village officials who are authorized to sign and/or endorse checks, drafts, notes, bills of exchange, orders (including orders or directories in informal or letter form), securities, and other instruments on behalf of the Village, including but not limited to the authority to execute, establish, and/or modify accounts and any related documents with any depositories designated and authorized by the Village; and

WHEREAS, the Corporate Authorities of the Village desire to designate those certain Village officials as set forth in this Resolution as authorized signatories on behalf of the Village to sign and/or endorse checks, drafts, notes, bills of exchange, orders (including orders or directories in informal or letter form), securities, and other instruments on behalf of the Village, including but not

limited to the authority to execute, establish, and/or modify accounts and any related documents with any depositories designated and authorized by the Village:

NOW THEREFORE, BE IT RESOLVED by the Mayor and Board of Trustees of the Village of Lake Villa, Lake County, Illinois, as follows:

<u>SECTION 1:</u> That the Corporate Authorities of the Village find that the facts stated in the preamble hereof are true and correct and are incorporated herein by reference as if fully set forth.

<u>SECTION 2</u>: That the Corporate Authorities hereby approve and authorize the following:

- A. That the signatures of two (2) of the following three (3) Village officials and/or employees, as more specifically herein provided, shall be required to sign and/or endorse any and all checks, drafts, notes, bills of exchange, orders (including orders or directories in informal or letter form), securities and other instruments, including but not limited to the authority to execute, establish, and/or modify accounts and any related documents, with any depositories designated and authorized by the Village, against any Village account and/or any funds at any time standing to the credit of the Village with any designated and authorized depository of the Village: Mayor James McDonald, Village Trustee Jeff Nielsen, Village Administrator Michael Strong.
- B. That the signatures of two (2) of the following three (3) Village officials and/or employees, as more specifically herein provided, shall be required to sign any and all manual checks against any Village account and/or any funds at any time standing to the credit of the Village, with any designated and authorized depository of the Village: Mayor James McDonald, Village Trustee Jeff Nielsen, Village Administrator Michael Strong.
 - C. That the signatures of two (2) of the following three (3) Village officials and/or employees, as more specifically herein provided, shall be required to sign all documents to establish any new account for the credit of the Village and/or to modify existing accounts of

the Village, with any designated and authorized depository of the Village: Mayor James McDonald, Village Trustee Jeff Nielsen, Village Administrator Michael Strong.

SECTION 3: Attached to and expressly made a part of this Resolution is an updated and new form of ATTACHMENT A, "Designated Signatories", which shall replace any other similar document previously adopted by the Village designating authorized signatories on behalf of the Village.

<u>SECTION 4</u>: All "prior resolutions designating authorized signatories", and any other similar resolutions previously adopted by the Village designating authorized signatories on behalf of the Village are hereby repealed.

SECTION 5: The endorsements provided by any designated signatory for deposit to any Village account for the credit of the Village may be by the written or stamped endorsement of the Village without designation of the person making the endorsement.

<u>SECTION 6:</u> That the authorizations set forth in this Resolution will remain in effect until cancelled by later ordinance or resolution of the Corporate Authorities of the Village.

<u>SECTION 7</u>: This Resolution shall take effect from and after its passage and approval as provided by law.

Passed by the	Corporate Authorities	s on April 3, 2023, on a roll call vote as follows:
AYES:	Trustees	
NAYS:		
ABSENT:		
ABSTAIN:		
		Approved by the Mayor on April 3, 2023
		James McDonald, Mayor Village of Lake Villa
ATTEST:		
Mary Konrad Village of La	l, Village Clerk ke Villa	
[S E A L]		

ATTACHMENT A

DESIGNATED SIGNATORIES

I, MARY KONRAD, the undersigned Village Clerk of the Village of Lake Villa, Lake County, Illinois, DO HEREBY CERTIFY that the following named persons are personally known to me to be the same persons who are duly elected and/or appointed by the Village and duly qualified to act in their respective capacity indicated below on behalf of the Village of Lake Villa as set forth opposite their respective names and that the signatures set forth above their respective names are the true and correct signature(s) of each such Village official.

MAYOR	
	James McDonald
VILLAGE TRUSTEE	Jeff Nielsen
VILLAGE ADMINISTRATOR	Michael Strong
DATED:, 2022	Mary Konrad, Village Clerk Village of Lake Villa
[S E A L]	



Pollinator Conservation Initiatives - A Proposal For Lake Villa

The actions of a single person can make a difference — every citizen can contribute to pollinator conservation and should have the opportunity to become engaged in ways that are meaningful.

National Strategy to Promote the Health of Honeybees and Other Pollinators Task Force - The White House (2015)

Today's world is faced with increasing threats to a healthy biodiverse ecosystem and the many creatures that support it.

Pollinators are in decline in the USA and worldwide largely due to habitat loss, pesticides (and other pollutants), invasive species, and parasites (diseases). ¹

They serve a very important role in pollinating plants allowing them to reproduce and form seeds along with berries, fruits, and vegetables, which are part of the food chain for other species (including humans). Plants co-evolved with their pollinators. Without the pollinators the plants would have reduced or not reproduce. Their numbers will decrease resulting in reduced habitat and food for species that depend on them.

Consider the following:

Bees - Bees are essential partners in producing much of our food supply. They're also important for biodiversity by pollinating plants which are crucial to our ecosystem. These plants in turn help prevent soil erosion and reduce the amount of carbon dioxide in the atmosphere.

They also provide habitat and food for many different insects and other animals.

_

¹ https://blog.nwf.org/2021/06/10-ways-to-save-pollinators/



The common eastern bumble bee in a garden on Berkshire Drive in Lake Villa, IL (photo by Joe Gannon)

Unfortunately, however, they're in trouble and need our help. A recent study shows that 50% of bees are declining while 25% are in serious peril. ² According to the study, major drivers for this decline include "habitat destruction and pesticide use."

Not Just Bees Are Threatened

Although bees are very important pollinators, over 100,000 invertebrates (butterflies, moths, wasps, flies, mosquitos, and beetles) and over 1,000 mammals (birds, reptiles and amphibians), also act as pollinators."³

² Pollinators in Peril - Kelsey Kopec & Lori Ann Burd • Center for Biological Diversity • February 2017 (Pollinators in Peril: A Systematic Status Review of North American and Hawaiian Native Bees (biologicaldiversity.org))

³ https://blog.nwf.org/2021/06/10-ways-to-save-pollinators/

Threats to Other Species

Because our environment is so interconnected, threats to one species can affect others:

Loss of Butterflies - The iconic monarch butterfly - Illinois' state insect - that is "known for its spectacular annual journey of up to 4,000 kilometers across the Americas, has entered the IUCN Red List of Threatened Species as Endangered," due to similar threats.



A female monarch butterfly on milkweed in Lake Villa, IL (Photo by Joe Gannon)

Loss of Birds - According to the American Bird Conservancy, "in a single lifetime, 2.9 billion breeding adult birds have been lost from the United States and Canada." More than 90% of the total cumulative loss can be attributed to 12 bird families that are typical visitors to feeders across the U.S. including sparrows, warblers, blackbirds, and finches. The article notes that habitat loss is a driving factor behind these declines.



Photo by Joe Gannon

Other Threats

Invasive Species - "An invasive species is an organism that is not indigenous, or native, to a particular area. Invasive species can cause great economic and environmental harm to the new area."⁴

Invasive species displace or wipe out native species, damage infrastructure, and threaten human livelihoods.

In Illinois, some of the most invasive species include purple loosestrife, garlic mustard, Japanese and bush honeysuckles, oriental bittersweet, burning bush, autumn olive, and

⁴ National Geographic Society - <u>www.nationalgeographic.org/encyclopedia/invasive-species/</u>

buckthorn. ⁵ Teasel, reed canary grass, and Canada thistle are also very invasive and displace native plants and reduce plant diversity and ecosystem health. ⁶

In Lake County, the invasive species common or European buckthorn (Rhamnus cathartica) is of particular concern. Buckthorn accounts for 52.2% of the county's trees.

Not surprising, Lake Villa isn't immune to its presence. Here it can be found in HOA common areas, conservation easements, stormwater retention ponds, bioswales, parks and at the Lake County Forest Preserves. This adds insult to injury for pollinators that are already being stressed by diminishing habitat and other environmental factors.



Example of a seed bearing buckthorn in Lake Villa (photo by Joe Gannon)

Why Buckthorn is So Bad

- It degrades the ecosystem since it outcompetes native species.
- Provides minimal benefits for wildlife. In fact, the berries that are eaten by the birds makes them sick the seeds they expel during this process spreads the species.

⁵ https://www.chicagobotanic.org/plantinfo/common_invasive_plants

⁶ https://www.mipn.org/Publications/

- Can spread rapidly and is difficult to control.
- Kills off frogs ⁷
- Seeds remain in the soil even after removal, increasing the likelihood of re-growth.
- Produces chemical compounds that inhibit the growth of other vegetation.⁸
- Once established, it can be time consuming, labor intensive and expensive to remove.
- Will grow back if it's cut. Removing it requires herbicide application or stump removal.
- If not removed correctly it can be a long-term problem and can grow up to 25 feet in height.

Information about identification and control of invasive plant species can be found on the following websites

- https://www.chicagobotanic.org/plantinfo/common_invasive_plants
- https://www.mipn.org/Publications/
- https://www.mipn.org/control/
- https://extension.illinois.edu/cook/invasive-plants
- https://extension.illinois.edu/invasives/invasive-plants

⁷ Lincoln Park Zoo, Midwestern frogs decline, mammal populations altered by invasive plant, studies reveal, (Science News)

⁸ Wisconsin Pollinators - How To Control Invasive Buckthorn https://www.wisconsinpollinators.com/Garden/TipsBuckthorn.aspx

Recommendation

The city of Lake Villa is well-known for its many beautiful open spaces, parks and forest preserves that attract out-of-town visitors and residents alike.

As noted in the **2022 Lake Villa Comprehensive Plan** "Not only can Lake Villa residents and visitors take full advantage of these assets but there's potential to upgrade some areas as future development takes place." It further states that "conserving these open spaces, natural resources, and planning new development strategically that respects these resources, will offer long-term, balanced growth and development patterns." ⁹

Because pollinators provide significant benefits to our natural environment and are critical to a healthy ecosystem, we recommend the city of Lake Villa become a Bee City USA affiliate to help conserve these open spaces now and for future generations.

Further, the benefits of Bee City USA fit perfectly with the city's mission of a "neighborly atmosphere [that] combines a business-friendly approach that welcomes innovation and community investment." ¹⁰

Program Overview

Bee City is a program founded by the **Xerces Society for Invertebrate Conservation** - an international nonprofit organization that since 1971 protects the natural world through the conservation of invertebrates and their habitats. (see https://xerces.org/ for more information)

⁹ The 2022 Lake Villa Comprehensive Plan (p. 80) - <u>LAKE VILLA COMPREHENSIVE PLAN (lake-villa.org)</u> ¹⁰IBID, P. 5

The program's goals are to:

- Galvanize communities to sustain pollinators, in particular the more than 3,600 species of native bees in this country
- Increase the abundance of native plants
- Provide nest sites.
- Reduce the use of pesticides.

There are currently more than 170 cities across the United States that participate in the program.

Three cities in Illinois include:

- Port Barrington
- Barrington Hills
- Hawthorn Woods

Flexible to Meet the Needs of the Community

Bee City can be thought of as an "open source" model [that] allows cities to adopt the program to meet the unique needs of their communities (and their pollinator population and adapt it to work in private and public spaces ranging from parks, schools, libraries to neighborhood associations - all with the goal of making the world safer for pollinators one city at a time. "

More importantly, the program recognizes that each community has different needs and limited budgets to address these issues. As a result, the program "encourages cities to work with their existing resources noting "Pollinators don't need showplaces, they need food (pollen and nectar) and places to mate, nest and overwinter."¹¹

Conservation Efforts Already Underway

Some of the recent community-driven pollinator-friendly initiatives in Lake Villa that we are aware of include:

Pollinator and Community Gardens

- **Lakes Community High School** In 2021 the Illinois Schoolyard Habitat Grant Program awarded the school a grant to plant a pollinator garden.
- **Prince Of Peace Catholic School** A pollinator garden that is managed by students in the school garden club was expanded during 2022 as part of a new partnership with the parish Garden Gleaners ministry. With 700 sq ft of growing space in 20 beds, it features a variety of vegetables as well as plants for pollinators.

¹¹ Protecting Pollinators: How to Save the Creatures That Feed Our World," by Jodi Helmer, published by Island Press. (p52)

According to ministry director Chad Brandenburg, the food that is grown is then donated to local food pantries. The plan for this year has two beds dedicated to various types of flowers for pollinators. He notes that the purpose of the ministry is to help foster a growing spirit in the students and adults alike.



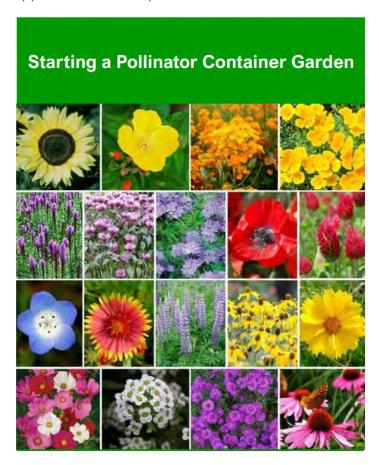


Multi-functional garden at Prince of Peace Catholic School (courtesy of Prince of Peace)

Pollinator Knowledge Sharing

According to the Pollinator Task Force "a key component for success is developing partnerships that foster public education and awareness pertaining to pollinator protection and habitat conservation, and leveraging existing resources and relationships."¹²

That's why knowledge sharing is important. For example, to help promote the use of pollinator container gardens,, several residents of a townhome community in Lake Villa collaborated to create a guide on pollinator container gardens. This information was then shared with the community. This helped residents become more aware of pollinators and opportunities to help them.



A 9-page pollinator container brochure with a recommended plant lists created by Jan Scheske and Joe Gannon

Removing invasive plants for habitat improvement

An important part of any conservation effort is to remove invasive species so they can be replaced with native species. According to Bee City USA's website, removing invasives is

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¹² IBID - P 19.

among the various types of Bee City activities that participants do to help improve pollinator habitat.

Over the years there's been a variety of conservation initiatives within the city to remove invasive species. For example, a current resident recalls working at Lehman Mansion 20-some years ago with his daughter to help remove buckthorn. We're also familiar with Lake Villa residents who have taken the initiative to remove buckthorn from their property.

Further, the Lake County Forest Preserve schedules volunteer workdays around the county to help remove buckthorn and other invasive species including Grant Woods and Duck Farm in Lake Villa.

These efforts can help mobile residents to contribute to the revitalization of areas which are affected by invasive species. It can also help foster a community spirit and increase awareness of the many benefits they bring to the community by getting involved.

Bee City Benefits

According to Bee City USA there are multiple benefits to participating in the program:



Build community locally and nationally

Brings the community together around a positive, shared cause and connects with others across the country that have made the same commitment.

Rather than a top down approach that is initiated by the city, Bee City promotes a collaborative spirit where residents and the city can work together to establish initiatives that help pollinators.

Ensures survival of vital animal species

Help to ensure the survival of vital animal species crucial to our planet's functioning ecosystems.

Improves local food production

Raises community awareness of how our food grows and improve local food production through expanded pollination. This includes pollinating residential and community gardens, resulting in better yields and size.

Supports small businesses

Supports the growth of local businesses including native plan nurseries, pollinator friendly landscaping and eco-friendly residential communities.

Addresses pest problems with fewer pesticides

Raise community awareness of the least toxic ways to tackle home and garden pest problems.

Heighten awareness of biological diversity

Raises community awareness of the local environment's diversity of plant and pollinator species

Additional Benefits

There are additional benefits that the city can be gained by participating in this program:

Helps create a buzz

As the Plan notes, "successful economic development strategies depend on creating a "buzz" – pulling visitors and shoppers into town." By participating in this program, we feel it clearly differentiates Lake Villa demonstrating pollinator conservation. In doing so it helps increase public knowledge about these efforts and clearly differentiates the city through its participation.

Affiliates of Bee City USA and Bee Campus USA gain national recognition for their work to conserve pollinators. Affiliates are listed on the Bee City USA website and can use their affiliation to promote their community's commitment to conservation. There are also opportunities for affiliates to share their work through presenting as part of webinars and writing blog posts.¹³

Not just for farm crops

Although bees are recognized for pollinating our food crops, they also contribute to the pollination of most flowers that are seen across the area.

My Tomatoes are So Small This Year

A neighbor decided to grow tomato plants in a container garden. Every day they diligently watered the plants and provided enough sunlight and TLC to create what they thought would be a bumper crop. But when harvest time came they were disappointed at the size and quantity of their tomatoes. However it wasn't surprising since the area is void of any bees in the surrounding area. Bees can help ensure that plants get the necessary nutrients to grow and thrive through pollination. While other factors such as weather also play a part in crop success, pollinators do too.

¹³ https://beecityusa.org/wp-content/uploads/2021/03/All-Benefits-Bee-City.pdf

Can provide opportunities for students to draw closer to nature, and enrich their learning opportunities

In addition to Lakes High School and Prince of Peace Church, consider examples in across Lake County

- The College of Lake County which currently is a Bee City Campus participant "
 provides a variety of opportunities for students and community members to get
 involved in educational community service events to learn about pollinators, native
 plants and beekeeping." 14
- In 2021, the **Illinois Schoolyard Habitat Action Grants** program awarded grants to Seth Paine Elementary School: Community Unit School District #95, Lake Zurich, and Prairie Crossing Charter School in Grayslake. ¹⁵

Becoming a Bee City participant allows opportunities for such initiatives. For example, Bee City Canada's School Gardens project, featured a pollinator garden among various schools in the Toronto area.

According to Bee City "Through the simple task of gardening, children and communities can become more connected with nature, especially those in highly urbanized environments. Looking after a garden also promotes physical activity, self-sufficiency and encourages healthier eating that includes more fruit and vegetables. In addition, there have been studies which suggest that students who are exposed to outdoor learning activities can perform better academically."¹⁶

Is A Community Collaboration-Driven Process

The first step to participate in the program is to form a committee. This committee is composed of both residents and city members. Such an approach is critical to ensuring success.

These same principles to include residents (users) are commonly applied in conservation, product design and change management. By including members that represent the community, they become more invested in the process. This can produce a better result.

¹⁴ Bee Campus USA - College of Lake County - <u>2022 College of Lake County IL.pdf (beecityusa.org)</u>

¹⁵ Projects receive funding through Schoolyard Habitat grants - <u>Projects receive funding through Schoolyard Habitat Grants - Chronicle Media (chronicleillinois.com)</u> (Jan 22, 2021)

¹⁶ Bee City School Garden Project Breaks Ground - (May 18, 2018)

Penn State University notes there are also a variety of benefits in community engagement that include: ¹⁷

- Increase the likelihood that projects or solutions will be widely accepted.

 Citizens who participate in these processes show significant commitment to help make the projects happen.
- **Create more effective solutions.** Drawing on local knowledge from a diverse group creates solutions that are practical and effective.
- Improve citizens' knowledge and skills in problem solving. Participants learn about the issues in-depth. Greater knowledge allows them to see multiple sides of the problem. Citizens can practice communication and decision-making skills.
- **Empower and integrate people from different backgrounds.** Groups that feel ignored can gain greater control over their lives and their community. When people from different areas of the community work together, they often find that they have much in common.
- **Create local networks of community members**. The more people who know what is going on and who are willing to work toward a goal, the more likely a community is to be successful in reaching its goals.
- Create several opportunities for discussing concerns. Regular, on-going discussions allow people to express concerns before problems become too big or out of control.
- Increase trust in community organizations and governance. Working together
 improves communication and understanding. Knowing what government,
 community citizens and leaders, and organizations can and cannot do may reduce
 future conflict.

¹⁷ Why Community Engagement Matters - Penn State University Department of Agricultural Economics. Why Community Engagement Matters — Department of Agricultural Economics. Sociology, and Education (psu.edu)



Collaboration and volunteering is an important part of success

Opportunities to help endangered species such as the Rusty Patched Bumble Bee

In 2017, the U.S Fish and Wildlife placed the **Rusty Patched Bumble Bee** on the endangered species list - having lost nearly 90% of its range. A variety of stressors have contributed to this demise including "pathogens, pesticides, habitat loss and degradation, non-native and managed bees, the effects of climate change and small population biology.

However recent events are encouraging that this species may be making a comeback. For example, in 2022, nine were discovered at six of the 13 forest preserves in Lake County. ¹⁹

¹⁸ U.S Fish and Wildlife Service, Rusty Patched Bumble Bee - www.fws.gov/species/rusty-patched-bumble- bee-bombus-affinis

¹⁹ Rusty Patched Bumble Bee Sightings Increase in Lake County - https://www.lcfpd.org/rusty-patched-bumble-bee/

The National Fish and Wildlife notes that "saving a species from extinction is a group effort, with partners from national conservation organizations and agencies to local communities and citizens, we can't do this alone" said Charlie Wooley, regional director for the Great Lakes Region of the U.S. Fish and Wildlife Service. "This is a great opportunity for those who live in the range of the rusty patched bumble bee to get involved in recovery, whether you live in a rural setting or urban areas where we're finding the species. We encourage everyone to help by learning more about this interesting bee and providing flowers for pollen and nectar. Together we can make sure this important native pollinator doesn't slip away." ²⁰

Given the amount of open spaces throughout Lake Villa, there certainly are opportunities to help this endangered species make a comeback with increased bee conservation efforts.



A rusty-patched bumble bee (Photo by U.S Fish and Wildlife Service / Wikimedia Commons)

Next Steps

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²⁰ Rusty Patched Bumble Bee Recovery Plan https://www.fws.gov/story/2021-11/rusty-patched-bumble-bee-recovery-plan

1. Please review the Powerpoint presentation by Bee City to learn more about the program:

https://beecityusa.org/wp-content/uploads/2020/12/Bee-City-USA-Applicant-Present ation-Narrated.pptx

2. Get more info on application steps here:

https://beecityusa.org/apply-to-bee-campus-usa/

About The Author

I moved to Lake Villa with my wife in 2002, having fallen in love with the city's open spaces. Though I enjoyed looking at nature, I rarely took advantage of the parks or enjoying it.

But that all changed in the summer of 2021. As I drove north on Route 83 in late July that year on two occasions within a week's time span I had noticed a monarch butterfly flying across the highway. While I was excited about seeing this iconic butterfly, my heart



sank when I realized there was nothing but grass and nothing visible for the butterfly to get food or shelter. It was at that point I realized that I wanted to help the ecosystem in my community and give back any way I can to help.

At that point I sprung into action and enrolled at Morton Arboretum's N-ACT Program (Natural Areas Conservation Program). There I began to learn about how to restore natural areas. I also began to volunteer at Prairie Crossing in Grayslake and Lake County Forest Preserves to help with area conservation efforts.

Additional Info

Joe is a certified LCFP Brush Pile Burn Boss and has earned the Illinois Department of Agriculture's Herbicide certificate (2023). Joe is also enrolled in The Pollinator Partnership Pollinator Steward Certification Program.

He's also achieved the Certified Pollinator Champion by Michigan State University. Additional training includes the Midwest Ecological Prescription Burn Crew Member Training Class (McHenry County), various wildland fire courses from the National Wildfire Coordinating Group and FEMA's National Incident System.



Joe is a member of the Society for Ecological Restoration, the Indiana Native Plant Society, Illinois Native Plant Society, and the Kansas Native Plant Society.

Photo 1: Monarch butterfly courtesy of Mary Sullivan

Photo 2: Joe Gannon managing a brush pile burn at Lake County Forest Preserves Duck Farm Lake Villa, Feb 2022

Contributors

Thanks to the following who helped with document review and copy/ edits that greatly improved this document.

- Mary Sullivan
- Edith Vendel

Thanks to The Following

A big thanks to the following people for their inspiration, feedback, support, advice, review and encouragement:

- Jan Young
- Jan Scheske

Also thanks to:

- Ken Klick for helping me see the big picture and steered me in the right direction early on in the process.
- Chad Brandenburg from Prince of Peace for providing me with photos and info about their garden.
- Laura Rost from Xerxes for answering my questions on Bee City USA. Your quick responses and detailed info is greatly appreciated.

Links to Resources

Bee City links

Powerpoint Presentation

https://beecityusa.org/wp-content/uploads/2020/12/Bee-Campus-USA-Applicant-Presentation-Narrated.pptx

Program Overview

https://beecityusa.org/wp-content/uploads/2021/07/Program-Overview-Bee-City.pdf

Brochure

https://beecityusa.org/wp-content/uploads/2021/01/20-034_01_Bee_City_Brochure_1.pdf

Benefits/Why Join

https://beecityusa.org/wp-content/uploads/2021/03/All-Benefits-Bee-City.pdf https://beecityusa.org/benefits/

Benefits of Green spaces

https://www.jpost.com/health-and-wellness/article-728767 https://oem.bmj.com/content/oemed/early/2023/01/05/oemed-2022-108491.full.pdf

How to Apply

https://beecityusa.org/apply-to-bee-city-usa/ https://www.youtube.com/watch?v=h4YycdWLtkg

Application Resources

https://beecityusa.org/apply-to-bee-city-usa/#ApplicationResources

FAQs

https://beecityusa.org/faqs/

Commitments to Be a Participant

https://beecityusa.org/bee-city-usa-commitments/

List of cities

https://beecityusa.org/current-bee-city-usa-affiliates/?filter affiliate type city 129a7=City%2 C%20Town%2C%20Village%2C%20or%20County

Affiliate Reports

Lists the activities that each city accomplished. These reports give you a good idea of what a city will do as a participant.

https://beecityusa.org/work/2021-renewal-reports/

Blog

https://beecityusa.org/blog/

Selected Articles about Pollinators

https://www.frontiersin.org/articles/10.3389/fevo.2019.00220/full

https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0235492

Habitat loss and fragmentation disrupt plant-pollinator networks - Conservation Corridor

TransportationUtilityCorridorsPreventionBMPs.pdf (pollinator.org)

Rights of Way | Pollinator.org

Wild Pollinators Enhance Fruit Set of Crops Regardless of Honey Bee Abundance | Science

ipm-lawn-to-lake.pdf (illinois.edu)

Selected Bee City USA Participants

To get an idea of what individual cities do as a Bee City participant, check out the links below:

Barrington Hills

https://beecityusa.org/wp-content/uploads/2021/05/2021 village of barrington hills.pdf https://barringtonhills-il.gov/7949-2/

https://barringtonhills-il.gov/pollinator-week-june-21-27/

Port Barrington, IL

https://www.portbarrington.net/bee-city/

Hawthorn Woods, IL

https://beecityusa.org/wp-content/uploads/2022/07/2022 Hawthorn Woods IL.pdf

Columbus, IN

https://www.sierraclub.org/indiana/blog/2021/10/columbus-becomes-first-bee-city-usa-affil iate-indiana-blog-eric-riddle

https://1010wcsi.com/local-news/columbus-adopts-bee-city-usa-designation-to-protect-poll inators/

Mequon, WI

https://www.ci.mequon.wi.us/sites/default/files/fileattachments/community/page/3351/20 22_bee_city_usa_resolution.pdf

Resolution No. 2023-04-02

A RESOLUTION OF THE VILLAGE OF LAKE VILLA, LAKE COUNTY, ILLINOIS, OF SUPPORT AND COMMITMENT OF LOCAL FUNDS FOR A COMED GREEN REGION GRANT APPLICATION

WHEREAS, the Village of Lake Villa, Lake County, Illinois (the "Village") is a duly organized and validly existing non-home rule municipality pursuant to Article VII, Section 6(a) of the Constitution of the State of Illinois of 1970; and,

WHEREAS, the Village is applying for a ComEd Green Region Grant for financial assistance to support the installation of a pollinator garden; and,

WHEREAS, the ComEd Green Region Grant is offering financial assistance through the ComEd Green Region Fund to support projects that promote the conservation of open space in Northern Illinois; and,

WHEREAS, it is necessary that an application be made to Openlands, the agency that is administering the ComEd Green Region Grant program; and,

WHEREAS, receipt of grant assistance is essential to allow the Village to undertake the project to improve and expand pollinators in appropriate open spaces that will support our local ecosystems; and,

WHEREAS, criteria of the ComEd Green Region Grant program are such that financial participation by the grantee or project beneficiary is required in conjunction with ComEd Green Region funds, and

NOW, THEREFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Lake Villa, of Lake County, Illinois, as follows:

Section 1. That the above recitals are incorporated herein and made a part hereof.

Section 2. That the Village of Lake Villa apply for a grant under the terms and conditions

Openlands and the ComEd Green Region Fund shall enter into and agree to the understandings

and assurances contained in said application.

Section 3. That the Village Administrator on behalf of the Village of Lake Villa execute

such documents and all other documents necessary for carrying out of said application.

Section 4. That the Mayor and Village Clerk are authorized to provide such additional

information as may be required to accomplish the obtaining of such grant.

Section 5. That the Village of Lake Villa does hereby commit funds from the Parks Capital

Fund for use in conjunction with a ComEd Green Region Grant to install a pollinator garden

adjacent to the Cedar Crossing park which will support the expansion of local pollinators in Lake

Villa, such funds to equal 50% of the estimated project cost of \$10,000 or \$5,000.

Passed by the President and the Village Board of Trustees of the Village of Lake Villa,

Illinois, this 3rd day of April, 2023.

AYES: Trustees		
NAYS:		
ABSENT:		
ABSTAIN:	APPROVED:	
Attest:	Mayor James McDonald	
Village Clerk		

James McDonald, Mayor Mary Konrad, Clerk Stacy Michael, Treasurer



Trustees:
Allena Barbato
Jake Cramond
Karen Harms
Jeff Nielsen
Tom O'Reilly
Doug Savell

DATE: March 30, 2023

TO: Village Board of Trustees

FROM: Stacy Michael

Administrative Services Director

RE: Draft Budget Changes

Amendments to the budget are being presented based on feedback provided by the Village Board during their Budget Workshop. Motor Fuel Tax Fund Balances have been updated due to an after audit journal entry that was made. The FY22/23 projected ending balance is \$1,094,327.

Below are also additional updates that have been made.

- IMRF/Social Security Moving all funds to Administration Fund only
- All salaries have been updated with the recommended 3% increase
- Water tower A has been moved to the General Capital Fund
- ARPA fund transfer of \$250,000 from General Capital to W/S Capital for water meter replacement program
- Added Well 7 Booster Station Construction to W/S Capital
- Removed Sewer Camera from W/S Capital
- Added 5 bike racks to Park Capital

65 Cedar Avenue P.O. BOX 519 Lake Villa, Illinois 60046 (847) 356-6100 www.lake-villa.org

VILLAGE OF LAKE VILLA FISCAL YEAR 2023/24 BUDGET SUMMARY

	FY 2023/24	FY 2023/24	FY 2023/24	FY 2022/23
GENERAL FUND	REVENUE	EXPENSE	PERFORMANCE	PERFORMANCE
General Fund Revenue	5,531,562			4,975,222
Administrative		1,337,037		1,031,851
Police		2,577,506		2,473,966
Fleet		377,603		268,706
Streets		849,007		1,067,294
Buildings & Grounds	25.000	140,000		124,007
Special Events	25,000	61,500	213,909	68,252 (F8.8F6)
TOTAL	5,556,562	5,342,653	213,909	(58,856)
	FY 2023/24	FY 2023/24	FY 2023/24	FY 2022/23
WATER/SEWER FUND	REVENUE	EXPENSE	PERFORMANCE	PERFORMANCE
Water & Sewer Revenue	3,282,644			3,389,360
Water		1,826,222		1,787,083
Sewer		1,411,568	44,854	1,324,796
TOTAL	3,282,644	3,237,790	44,854	277,481
	FY 2023/24	FY 2023/24	FY 2023/24	FY 2022/23
ENTERPRISE FUNDS	REVENUE	EXPENSE	PERFORMANCE	PERFORMANCE
Metra Fund	42,825	31,792	11,033	17,964
Mansion Fund	81,400	59,185	22,215	(67,708)
Special Events Fund	66,750	61,500	5,250	(14,853)
Garbage Fund	672,244	677,041	(4,797)	476
	FY 2023/24	FY 2023/24	FY 2023/24	FY 2022/23
SPECIAL FUNDS	REVENUE	EXPENSE	PERFORMANCE	PERFORMANCE
Motor Fuel Tax Fund	218,303	120,000	98,303	(213,626)
Retirement Fund	-	-	-	(223,933)
Insurance Fund	240,960	240,960	-	108,426
Information Techology Fund	-	-	-	(38,914)
Fleet Maintenance Fund	280,000	-	280,000	11,294
	FY 2023/24	FY 2023/24	FY 2023/24	FY 2022/23
CAPITAL FUNDS	REVENUE	EXPENSE	PERFORMANCE	PERFORMANCE
General Capital Fund	403,445	1,637,635	(1,234,190)	601,191
Water/Sewer Capital Fund	263,000	1,570,000	(1,307,000)	1,253,349
Parks Capital Fund Downtown TIF Fund	3,000 260,000	75,000 603,550	(72,000) (343,550)	(20,250) 239,213
Park Avenue TIF Fund	35,200	33,500	1,700	259,215
Downtown Business District	211,400	301,597	(90,197)	94,556
FIXED ASSET FUNDS	FY 2023/24 REVENUE	FY 2023/24 EXPENSE	FY 2023/24 PERFORMANCE	FY 2022/23 PERFORMANCE
Squad Car Replacement Fund	-	-	-	42,654
Public Works Fleet Replacement Fund	-	-	-	106,500
Water/Sewer Equipment Replacement Fund	-	-	-	72,000
, , , , , , , , , , , , , , , , , , ,	FV 2022 /24	FV 2022/24	EV 2022 /24	
NON OPERATING FUNDS	FY 2023/24 REVENUE	FY 2023/24 EXPENSE	FY 2023/24 PERFORMANCE	FY 2022/23 PERFORMANCE
Police Pension	1,003,581	711,500	292,081	256,104
Drug Forfeiture		•		
	2,000	-	2,000	336
DUI	2,000 -	- 20,100	2,000 (20,100)	336 (734)

VILLAGE OF LAKE VILLA FISCAL YEAR 2023/24 FUND BALANCES

OPERATING FUNDS

	GENERAL	FUND	
FY 22/23 BEGINNING BALANCE	2,096,886	FY 23/24 BEGINNING BALANCE	2,363,968
FY 22/23 PROJECTED REVENUE	4,975,222	FY 23/24 PROJECTED REVENUE	5,556,562
FY 22/23 PROJECTED EXPENSES	4,708,139	FY 23/24 PROJECTED EXPENSES	5,342,653
MAY 1, 2023 PROJECTED BALANCE	2,363,968	MAY 1, 2024 PROJECTED BALANCE	2,577,877
	WATER/SEW		
FY 22/23 BEGINNING BALANCE	807,046	FY 23/24 BEGINNING BALANCE	1,084,527
FY 22/23 PROJECTED REVENUE	3,389,360	FY 23/24 PROJECTED REVENUE	3,282,644
FY 22/23 PROJECTED EXPENSES	3,111,879	FY 23/24 PROJECTED EXPENSES	3,237,790
MAY 1, 2023 PROJECTED BALANCE	1,084,527	MAY 1, 2024 PROJECTED BALANCE	1,129,382
	METRA F	UND	
FY 22/23 BEGINNING BALANCE	34,614	FY 23/24 BEGINNING BALANCE	52,578
FY 22/23 PROJECTED REVENUE	43,860	FY 23/24 PROJECTED REVENUE	42,825
FY 22/23 PROJECTED EXPENSES	25,896	FY 23/24 PROJECTED EXPENSES	31,792
MAY 1, 2023 PROJECTED BALANCE	52,578	MAY 1, 2024 PROJECTED BALANCE	63,611
EV 22/22 DECIMAING DALANCE	MANSION		(406.045)
FY 22/23 BEGINNING BALANCE	(128,307)	FY 23/24 BEGINNING BALANCE	(196,015)
FY 22/23 PROJECTED REVENUE	36,331	FY 23/24 PROJECTED REVENUE	81,400
FY 22/23 PROJECTED EXPENSES MAY 1, 2023 PROJECTED BALANCE	104,039 (196,015)	FY 23/24 PROJECTED EXPENSES MAY 1, 2024 PROJECTED BALANCE	59,185 (173,800)
WAT 1, 2023 I ROJECTED BALANCE	(130,013)	WAT 1, 2024 I ROJECTED DALANCE	(173,000)
	SPECIAL EVEN	ITS FUND	
FY 22/23 BEGINNING BALANCE	(7,158)	FY 23/24 BEGINNING BALANCE	(22,011)
FY 22/23 PROJECTED REVENUE	53,399	FY 23/24 PROJECTED REVENUE	66,750
FY 22/23 PROJECTED EXPENSES	68,252	FY 23/24 PROJECTED EXPENSES	61,500
MAY 1, 2023 PROJECTED BALANCE	(22,011)	MAY 1, 2024 PROJECTED BALANCE	(16,761)
	GARBAGE	ELIND	
FY 22/23 BEGINNING BALANCE	86,066	FY 23/24 BEGINNING BALANCE	86,542
FY 22/23 PROJECTED REVENUE	682,361	FY 23/24 PROJECTED REVENUE	702,969
FY 22/23 PROJECTED EXPENSES	681,886	FY 23/24 PROJECTED EXPENSES	677,041
MAY 1, 2023 PROJECTED BALANCE	86,542	MAY 1, 2024 PROJECTED BALANCE	112,470
		•	
	MOTOR FUEL		
FY 22/23 BEGINNING BALANCE	1,307,953	FY 23/24 BEGINNING BALANCE	1,094,328
FY 22/23 PROJECTED REVENUE	442,223	FY 23/24 PROJECTED REVENUE	218,303
FY 22/23 PROJECTED EXPENSES	655,849	FY 23/24 PROJECTED EXPENSES	120,000
MAY 1, 2023 PROJECTED BALANCE	1,094,328	MAY 1, 2024 PROJECTED BALANCE	1,192,631

	RETIREMEN	TELIND	
FY 22/23 BEGINNING BALANCE	79,636	FY 23/24 BEGINNING BALANCE	(144,297)
FY 22/23 BEGINNING BALANCE FY 22/23 PROJECTED REVENUE	79,030	FY 23/24 BEGINNING BALANCE FY 23/24 PROJECTED REVENUE	(144,237)
FY 22/23 PROJECTED EXPENSES	223,933	FY 23/24 PROJECTED EXPENSES	_
MAY 1, 2023 PROJECTED BALANCE	(144,297)	MAY 1, 2024 PROJECTED BALANCE	(144,297)
	(111)=31	,	(211)237
FY 22/23 BEGINNING BALANCE	INSURANCE 49,139	FY 23/24 BEGINNING BALANCE	157,565
FY 22/23 PROJECTED REVENUE	346,427	FY 23/24 PROJECTED REVENUE	240,960
FY 22/23 PROJECTED EXPENSES	238,001	FY 23/24 PROJECTED EXPENSES	240,960
MAY 1, 2023 PROJECTED BALANCE	157,565	MAY 1, 2024 PROJECTED BALANCE	15 7, 565
APITAL FUNDS			
	GENERAL CAPI		
FY 22/23 BEGINNING BALANCE	1,723,075	FY 23/24 BEGINNING BALANCE	2,324,266
FY 22/23 PROJECTED REVENUE	1,368,344	FY 23/24 PROJECTED REVENUE	403,445
FY 22/23 PROJECTED EXPENSES	767,153	FY 23/24 PROJECTED EXPENSES	1,637,635
MAY 1, 2023 PROJECTED BALANCE	2,324,266	MAY 1, 2024 PROJECTED BALANCE	1,090,076
	WATER/SEWER C	APITAL FUND	
FY 22/23 BEGINNING BALANCE	1,552,067	FY 23/24 BEGINNING BALANCE	2,805,416
FY 22/23 PROJECTED REVENUE	2,218,396	FY 23/24 PROJECTED REVENUE	263,000
FY 22/23 PROJECTED EXPENSES	965,047	FY 23/24 PROJECTED EXPENSES	1,570,000
MAY 1, 2023 PROJECTED BALANCE	2,805,416	MAY 1, 2024 PROJECTED BALANCE	1,498,416
	PARKS CAPIT		
FY 22/23 BEGINNING BALANCE	159,643	FY 23/24 BEGINNING BALANCE	139,393
FY 22/23 PROJECTED REVENUE	-	FY 23/24 PROJECTED REVENUE	3,000
FY 22/23 PROJECTED EXPENSES	20,250	FY 23/24 PROJECTED EXPENSES	75,000
MAY 1, 2023 PROJECTED BALANCE	139,393	MAY 1, 2024 PROJECTED BALANCE	67,393
	DOWNTOWN		
FY 22/23 BEGINNING BALANCE	283,200	FY 23/24 BEGINNING BALANCE	522,413
FY 22/23 PROJECTED REVENUE	266,800	FY 23/24 PROJECTED REVENUE	260,000
FY 22/23 PROJECTED EXPENSES	27,587	FY 23/24 PROJECTED EXPENSES	603,550
MAY 1, 2023 PROJECTED BALANCE	522,413	MAY 1, 2024 PROJECTED BALANCE	178,863
	PARK AVENUE	TIF FUND	
FY 22/23 BEGINNING BALANCE	-	FY 23/24 BEGINNING BALANCE	17,304
FY 22/23 PROJECTED REVENUE	34,187	FY 23/24 PROJECTED REVENUE	35,200
FY 22/23 PROJECTED EXPENSES	16,883	FY 23/24 PROJECTED EXPENSES	33,500
MAY 1, 2023 PROJECTED BALANCE	17,304	MAY 1, 2024 PROJECTED BALANCE	19,004
	DOWNTOWN BUSI	NESS DISTRICT	
FY 22/23 BEGINNING BALANCE	267,393	FY 23/24 BEGINNING BALANCE	361,949
FY 22/23 PROJECTED REVENUE	202,228	FY 23/24 PROJECTED REVENUE	211,400
FY 22/23 PROJECTED EXPENSES	107,672	FY 23/24 PROJECTED EXPENSES	301,597
MAY 1, 2023 PROJECTED BALANCE	361,949	MAY 1, 2024 PROJECTED BALANCE	271,752

FIXED ASSET FUNDS

MAY 1, 2023 PROJECTED BALANCE

FY 22/23 BEGINNING BALANCE 92,776 FY 23/24 PROJECTED REVENUE 27,279 PROJECTED REVENUE 82,080 FY 23/24 PROJECTED REVENUE - FY 22/23 PROJECTED REVENUE 82,080 FY 23/24 PROJECTED REVENUE - FY 22/23 PROJECTED BALANCE 135,430 MAY 1, 2024 PROJECTED BALANCE 135,431 MAY 1, 2024 PROJECTED BALANCE 135,431 MAY 1, 2024 PROJECTED BALANCE 135,432 FY 22/23 BEGINNING BALANCE 15,494 FY 23/24 PROJECTED REVENUE - FY 22/23 PROJECTED REVENUE 168,000 FY 23/24 PROJECTED REVENUE - FY 22/23 PROJECTED BALANCE 121,994 MAY 1, 2024 PROJECTED EXPENSES - IAY 1, 2023 PROJECTED BALANCE 121,994 MAY 1, 2024 PROJECTED BALANCE 121,995 MAY 1, 2024 PROJECTED BALANCE 121,9	S	QUAD CAR REPLA	CEMENT FUND	
FY 22/23 PROJECTED REVENUE 82,080 FY 23/24 PROJECTED REVENUE FY 22/23 PROJECTED EXPENSES 39,426 FY 23/24 PROJECTED EXPENSES - IAY 1, 2023 PROJECTED BALANCE 135,430 MAY 1, 2024 PROJECTED BALANCE 135,430 FY 22/23 BEGINNING BALANCE 15,494 FY 23/24 BEGINNING BALANCE 121,95 FY 22/23 PROJECTED REVENUE 168,000 FY 23/24 PROJECTED REVENUE FY 22/23 PROJECTED EXPENSES 61,500 FY 23/24 PROJECTED EXPENSES 61,500 FY 23/24 PROJECTED BALANCE 121,994 MAY 1, 2024 PROJECTED BALANCE 121,994 MAY 1, 2024 PROJECTED BALANCE 121,994 MAY 1, 2024 PROJECTED BALANCE 121,995 MAY 1, 2023 PROJECTED REVENUE FY 22/23 PROJECTED REVENUE 72,000 FY 23/24 PROJECTED REVENUE FY 22/23 PROJECTED REVENUE 72,000 FY 23/24 PROJECTED REVENUE FY 22/23 PROJECTED EXPENSES - FY 23/24 PROJECTED BALANCE 515,717 MAY 1, 2024 PROJECTED BALANCE 515,717 MAY 1, 2024 PROJECTED BALANCE 515,718 MAY 1, 2024 PROJECTED BALANCE 515,718 MAY 1, 2024 PROJECTED BALANCE 515,719 MAY 1, 2024 PROJECTED BALANCE 517,150 MAY 1, 2024 PROJECTED B				135.430
### FY 22/23 PROJECTED EXPENSES 39,426	-	•	•	-
Ay 1, 2023 PROJECTED BALANCE 135,430 MAY 1, 2024 PROJECTED BALANCE 135,430		•		_
FY 22/23 BEGINNING BALANCE 15,494 FY 23/24 BEGINNING BALANCE 121,95 FY 22/23 PROJECTED REVENUE 168,000 FY 23/24 PROJECTED REVENUE - FY 22/23 PROJECTED EXPENSES 61,500 FY 23/24 PROJECTED EXPENSES - IAY 1, 2023 PROJECTED BALANCE 121,994 MAY 1, 2024 PROJECTED BALANCE 121,995 WATER/SEWER EQUIPMENT REPLACEMENT FY 22/23 BEGINNING BALANCE 443,717 FY 23/24 BEGINNING BALANCE 515,71 FY 22/23 PROJECTED REVENUE 72,000 FY 23/24 PROJECTED REVENUE - FY 22/23 PROJECTED EXPENSES - FY 23/24 PROJECTED EXPENSES - IAY 1, 2023 PROJECTED BALANCE 515,717 MAY 1, 2024 PROJECTED BALANCE 515,71 IN-OPERATING FUNDS POLICE PENSION FY 22/23 BEGINNING BALANCE 8,007,969 FY 23/24 PROJECTED BALANCE 515,71 IN-OPERATING FUNDS POLICE PENSION FY 22/23 PROJECTED REVENUE 962,067 FY 23/24 PROJECTED EXPENSES 711,503 IAY 1, 2023 PROJECTED BALANCE 8,264,073 MAY 1, 2024 PROJECTED EXPENSES 711,50 IAY 1, 2023 PROJECTED BALANCE 8,264,073 MAY 1, 2024 PROJECTED BALANCE 8,556,15 DRUG FORFEITURE FY 22/23 BEGINNING BALANCE 16,814 FY 23/24 BEGINNING BALANCE 17,15 FY 22/23 PROJECTED EXPENSES 2,640 FY 23/24 PROJECTED EXPENSES - IAY 1, 2023 PROJECTED EXPENSES 2,640 FY 23/24 PROJECTED EXPENSES - IAY 1, 2023 PROJECTED EXPENSES 2,640 FY 23/24 PROJECTED BALANCE 19,15 DUI FUND FY 22/23 PROJECTED BALANCE 24,165 FY 23/24 BEGINNING BALANCE 19,15 DUI FUND FY 22/23 PROJECTED BALANCE 24,165 FY 23/24 BEGINNING BALANCE 23,43 FY 22/23 PROJECTED BALANCE 3,640 FY 23/24 PROJECTED BALANCE 19,15 DUI FUND FY 22/23 PROJECTED EXPENSES 6,6797 FY 23/24 PROJECTED EXPENSES 2,640 IAY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 CELLBRATION OF SUMMER FY 22/23 BEGINNING BALANCE 6,855 FY 23/24 BEGINNING BALANCE 6,855 FY 22/23 BEGINNING BALANCE 6,855 FY 23/24 BEGINNING BALANCE 7,22/23 PROJECTED BALANCE 7,22/23 PROJECTED BALANCE 7,22/23 PROJECTED BALANCE 7,23/24 P	•	,	•	135,430
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### REQUIPMENT REPLACEMENT FY 22/23 BEGINNING BALANCE ### 443,717 FY 23/24 BEGINNING BALANCE 515,71 FY 22/23 PROJECTED REVENUE 72,000 FY 23/24 PROJECTED REVENUE FY 22/23 PROJECTED EXPENSES - FY 23/24 PROJECTED EXPENSES - FY 23/24 PROJECTED BALANCE 515,717 MAY 1, 2024 PROJECTED BALANCE 515,717 MAY 1, 2024 PROJECTED BALANCE 515,717 **N-OPERATING FUNDS** **POLICE PENSION** FY 22/23 BEGINNING BALANCE 8,007,969 FY 23/24 BEGINNING BALANCE 1,003,58 FY 22/23 PROJECTED REVENUE 962,067 FY 23/24 PROJECTED REVENUE 1,003,58 FY 22/23 PROJECTED EXPENSES 705,963 FY 23/24 PROJECTED EXPENSES 711,50 AY 1, 2023 PROJECTED BALANCE 8,264,073 MAY 1, 2024 PROJECTED BALANCE 8,556,15 **DRUG FORFEITURE** FY 22/23 BEGINNING BALANCE 16,814 FY 23/24 BEGINNING BALANCE 17,15 FY 22/23 PROJECTED REVENUE 2,976 FY 23/24 PROJECTED REVENUE 2,00 FY 23/24 PROJECTED REVENUE 2,00 FY 23/24 PROJECTED BALANCE 17,150 MAY 1, 2024 PROJECTED BALANCE 19,15 DUI FUND** **DUI FUND** **DUI FUND** **DUI FUND** **DUI FUND** **DUI FUND** **PY 22/23 PROJECTED REVENUE 6,063 FY 23/24 PROJECTED BALANCE 19,15 AY 1, 2023 PROJECTED BALANCE 23,43 MAY 1, 2024 PROJECTED BALANCE 3,43 FY 22/23 PROJECTED REVENUE 6,063 FY 23/24 PROJECTED REVENUE FY 22/23 PROJECTED BALANCE 23,43 MAY 1, 2024 PROJECTED BALANCE 3,33 AY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 AY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 AY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 AY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 AY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 AY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 AY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 AY 1, 2023 PROJECTED BALANCE 6,855 FY 23/24 PROJECTED REVENUE -FY 22/23 BEGINNING BALANCE 6,855 FY 23/24 PROJECTED REVENUE -FY 22/23 PROJECTED REVENUE -FY 22/23 PROJECTED REVENUE -FY 22/24 PROJECTED REVENUE -FY 22/24 PROJECTED REVENUE -FY 22/24 PROJECTED REVENUE -FY 22/24 PR	·-	•	•	121.00
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### POLICE PENSION POLICE PENSION FY 22/23 BEGINNING BALANCE 8,007,969 FY 23/24 BEGINNING BALANCE 1,003,58 FY 22/23 PROJECTED EXPENSES 705,963 FY 23/24 PROJECTED EXPENSES 711,50 FY 22/23 PROJECTED BALANCE 8,264,073 MAY 1, 2024 PROJECTED BALANCE 8,556,15 DRUG FORFEITURE	-	72,000		-
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POLICE PENSION FY 22/23 BEGINNING BALANCE	AY 1, 2023 PROJECTED BALANCE	515,717	MAY 1, 2024 PROJECTED BALANCE	515,71
FY 22/23 BEGINNING BALANCE 8,007,969 FY 23/24 BEGINNING BALANCE 8,264,07 FY 22/23 PROJECTED REVENUE 962,067 FY 23/24 PROJECTED REVENUE 1,003,58 FY 22/23 PROJECTED EXPENSES 705,963 FY 23/24 PROJECTED EXPENSES 711,50 AY 1, 2023 PROJECTED BALANCE 8,264,073 MAY 1, 2024 PROJECTED BALANCE 8,556,15 DRUG FORFEITURE FY 22/23 BEGINNING BALANCE 16,814 FY 23/24 BEGINNING BALANCE 17,15 FY 22/23 PROJECTED REVENUE 2,976 FY 23/24 PROJECTED REVENUE 2,00 FY 22/23 PROJECTED EXPENSES 2,640 FY 23/24 PROJECTED EXPENSES - AY 1, 2023 PROJECTED BALANCE 17,150 MAY 1, 2024 PROJECTED BALANCE 19,15 DUI FUND FY 22/23 BEGINNING BALANCE 24,165 FY 23/24 BEGINNING BALANCE 23,43 FY 22/23 PROJECTED REVENUE 6,063 FY 23/24 PROJECTED REVENUE - FY 22/23 PROJECTED EXPENSES 6,797 FY 23/24 PROJECTED EXPENSES 20,10 AY 1, 2023 PROJECTED BALANCE 23,431 MAY 1, 2024 PROJECTED BALANCE 3,33 CELEBRATION OF SUMMER FY 22/23 BEGINNING BALANCE 6,855 FY 23/24 BEGINNING BALANCE 3,33 CELEBRATION OF SUMMER FY 22/23 BEGINNING BALANCE - FY 23/24 PROJECTED REVENUE - FY 23/24 PROJECTED BALANCE 3,33	N-OPERATING FUNDS			
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		-		-
	FY 22/23 PROJECTED EXPENSES	-	FY 23/24 PROJECTED EXPENSES	_

6,855

MAY 1, 2024 PROJECTED BALANCE

6,855

GENERAL FUND REVENUE

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
TAXES					
01-00-10-3010	REAL ESTATE TAXES	1,022,724	1,032,377	1,033,791	1,463,526
01-00-10-3020	ROAD & BRIDGE TAX	22,599	22,500	24,305	22,600
01-00-10-3030	SALES TAX (S-95%)	1,053,405	912,671	1,045,000	1,135,095
01-00-10-3040	STATE INCOME TAX (S-95%)	1,223,452	1,039,655	1,104,425	1,162,553
01-00-10-3070	USE TAX (S-95%)	317,264	333,404	311,738	342,299
01-00-10-3050	REPLACEMENT TAX	32,673	15,000	31,000	32,673
01-00-30-3130	CABLE FRANCHISE TAX	156,506	155,000	157,196	160,000
01-00-10-3140	TELECOMMUNICATIONS TAX	110,356	120,000	102,762	115,943
01-00-10-3150	UTILITY TAX-GAS	172,856	120,000	154,101	140,000
01-00-10-3151	UTILITY TAX-ELECTRIC	304,364	305,000	319,867	310,000
TOTAL TAXES		4,416,199	4,055,606	4,284,186	4,884,690
01-00-20-3110	LIQUOR LICENSE	34,150	19,400	34,000	30,000
01-00-20-3110	VENDING & AMUSMENT LICENSE	34,130	500	34,000	500
01-00-20-3150	VIDEO GAMING LICENSES	16,975	16,500	16,000	16,500
01-00-20-3100	BUSINESS REGISTRATION FEES	5,275	5,500	8,000	7,500
01-00-20-3170	BUILDING PERMITS	131,812	95,000	129,327	175,000
01-00-20-3210	WATERSHED PERMIT	131,612	50,000	123,327	50
01-00-20-3213	SITE DEVELOPMENT PERMITS	6,360	5,000	1,929	5,000
01-00-20-3214	LANDSCAPE INSPECTION FEE	-	500	-,525	100
01-00-20-3120	VEHICLE LICENSES	97,090	95,000	91,732	95,000
01-00-20-3250	IMPACT FEES	1,800	-	1,200	-
TOTAL LICENSES &		293,462	237,450	282,187	329,650
OTHER REVENUE 01-00-30-3480	ZONING HEARING FEES		800	750	750
01-00-30-3480	NATURAL GAS FRANCHISE	- 17,204	17,204	17,204	17,204
01-00-30-3481	POLICE REPORTS	2,575	2,500	2,370	2,500
01-00-30-3010	COURT FINES	91,610	85,000	90,000	90,000
01-00-30-3710	PARKING & ORDINANCE FINES	21,680	25,000	8,560	8,500
01-00-30-3720	SEX OFFENDER REGISTRATION FEE	410	300	400	م,500 400
01-00-30-3730	INTEREST INCOME	44,602	45,000	45,000	45,000
01-00-30-3880	SCHOOL RESOURCE OFFICER	109,376	116,000	93,109	123,000
01-00-30-3890	OTHER REVENUE	47,711	20,000	151,455	23,868
01-00-30-3890	TRANSFER FROM OTHER FUNDS	-7,/11	20,000	-	6,000
TOTAL OTHER REV		335,167	311,804	408,848	31 7,222
TOTAL OTHER REV		333,107	311,004		317,222
TOTAL REVENUE		5,044,828	4,604,860	4,975,222	5,531,562

TAXES

REAL ESTATE TAXES 01-00-10-3010

Budget amount is the amount levied for Property Tax Levy. Includes all real estate tax except for Police Pension Fund, insurance and retirement.

Corporate	\$ 458,555
Police	\$ 482,454
Streets	\$ 118,001
Liability Insurance	\$ 170,007
Social Security	\$ 179,012
IMRF	\$ 55,497
	\$ 1.462.526

\$ 1,463,526

ROAD & BRIDGE TAX 01-00-10-3020

This revenue is received from Lake Villa Township for those roads within our municipality. The Village receives a portion of the amount the townships collect from their roads and bridges levy within the corporate limits of Village of Lake Villa.

SALES TAX 01-00-10-3030

The Village currently receives 1% sales tax on eligible items sold in the Village. 2023/2024 assumes \$1,135,095 in total sales tax receipts. The first 95% of Sales Tax generated is pledged towards the General Operating Fund. 5% of the sales tax revenue is dedicated towards the General Capital Fund.

STATE INCOME TAX 01-00-10-3040

This revenue is received from the Illinois Income Tax being returned to municipalities. Utilizing a population of 8,741 at an estimate of \$140.00 per person, the revenue is anticipated for 23/24 is \$1,162,553.

First 95% of Income Tax generated is pledged towards the General Operating Fund. 5% of the sales tax revenue is dedicated towards the General Capital Fund.

USE TAX 01-00-10-3070

Local governments receive revenue from the State Use Tax rate. The funds are distributed from the Local Government Distributive Fund based on population (8,741). The State Use Tax is collected on purchases of personal property from out-of-state retailers, not including titled items (automobiles, etc.). The Village used the Illinois Municipal League estimate of \$43.39 in FY 2023/2024.

First 95% of Local Use Tax generated is pledged towards the General Operating Fund. 5% of the sales tax revenue is dedicated towards the General Capital Fund.

REPLACEMENT TAX 01-00-10-3050

This revenue is derived primarily from the income tax on corporations. It replaces the revenue

received from the tax on corporate personal property prior to 1979. Municipalities receive a share of the distribution of these funds based upon the amount of corporate personal property tax collected for them in 1977 in proportion to the total amount of personal property tax collected. It also covers a portion of personal property replacement tax issued to the Road District.

CABLE FRANCHISE 01-00-30-3130

This revenue comes from the franchise fee of 5% of monthly royalty charged against Comcast and AT&T cable service. Fees are received quarterly.

TELECOMMUNICATIONS TAX 01-00-10-3140

As of 2003 the municipal telecommunications tax (5%) and the municipal tax on the occupation or privilege of transmitting messages and the municipal infrastructure maintenance fee (1%) were repealed and then combined into a single municipally imposed telecommunications tax of 6%. Reduction in landline phones is negatively impacting this revenue source.

UTILITY TAX-GAS 01-00-10-3150

A tax is imposed on all persons engaged in the business of distributing, supplying, furnishing, or selling gas for use or consumption within the corporate limits of the village and not for resale, at the rate of five percent (5%) of the gross receipts therefrom.

UTILITY TAX-ELECTRIC 01-00-10-3151

This revenue is received at a rate of 5% of electricity bills within the corporate limits of Village of Lake Villa. Pursuant to section 8-11-2 of the Illinois municipal code and any and all other applicable authority, a tax is imposed upon the privilege of using or consuming electricity acquired in a purchase at retail and used or consumed within the corporate limits of the village.

LICENSES & PERMITS

LIQUOR LICENSE 01-00-20-3110

This revenue is received from liquor licenses and is based on the current fees and number of each classification.

VENDING AMUSEMENT LICENSE 01-00-20-3150

These receipts are derived from amusement and vending licenses for arcade machines per Village Code.

VIDEO GAMING LICENSE 01-00-20-3160

These receipts are derived from. 66 Video Gaming licenses @ \$250 per machine.

BUSINESS REGISTRATION FEES 01-00-20-3170

This revenue comes from business registrations @ \$25 per applicant per Village Code.

BUILDING PERMITS 01-00-20-3210

Miscellaneous permits based on history of building permit revenue.

WATERSHED PERMITS 01-00-20-3211

\$25 fee per Village Code for watershed inspections. Assumes 2 in FY 2023/2024.

SITE DEVELOPMENT PERMITS 01-00-20-3213

Site development permit issued with new construction.

LANDSCAPE INSPECTION FEE 01-00-20-3214

\$50 fee per Village Code for landscape inspections. Assumes 10 in FY 2023/2024.

VEHICLE LICENSE

- All households within the village are charged an annual motor vehicle license fee which is billed in installments on the sewer and water bill.
- All households located in single-family dwellings, townhomes, and condominiums \$36.
- All multi-family rental units \$18 (per dwelling unit).
- All multiple-family rental units located within a building reserved exclusively for senior housing
 \$12 (per dwelling unit).
- Senior Discount \$12
- Commercial:

1 to 4 Vehicles \$ 36 5 to 10 Vehicles \$ 72 10+ Vehicles \$108

OTHER REVENUE

ZONING HEARING FEES 01-00-30-3480

This revenue is received from zoning hearing fees such as variations, special use permits and re-zoning requests.

NATURAL GAS FRANCHISE 01-00-30-3481

Revenue from the Village's Natural Gas Franchise Agreement with NICOR. Payment for 31,467 Therms at the average Therm cost over the past 3-years. 2023/2024 assumes an average Therm cost of 0.5467

POLICE REPORTS 01-00-30-3610

This is a fee that is charged for copies of police reports.

COURT FINES 01-00-30-3710

This revenue comes from fines through the Court system.

PARKING & ORDINANCE FINES 01-00-30-3720

This revenue comes from local ordinance violations through the Administrative Adjudication System.

SEX OFFENDER REGISTRATION FEE 01-00-30-3730

This revenue is from the Village share of the Sex Offender Registration fee.

INTEREST INCOME 01-00-30-3810

Income derived from investments.

SCHOOL RESOURCE OFFICERS 01-00-30-3880

This revenue consists of receipts from Allendale (\$60,000) paid quarterly, and from School Districts for special police detail such as directing traffic for buses, and \$63,000 from CCD #117 for School Resource Officer.

OTHER REVENUE 01-00-30-3890

This miscellaneous line item is for one-time receipts of unforeseen monies. This includes the payment of a retired employee paying full cost of Village Health insurance.

ADMINISTRATION

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
		2021/2022	2022/2023	2022/2023	2023/2024
PERSONNEL EXPE	NSES				
01-10-10-4011	SALARY (Payroll Spread)	279,521	235,533	284,609	350,764
01-10-10-4015	PART-TIME	13,955	36,000	17,540	57,470
01-10-10-4014	OVERTIME (Payroll Spread)	-	50	63	100
01-10-10-4017	BENEFIT TIME COMPENSATION (Payroll Spread)	2,354	2,500	811	2,500
01-10-10-4020	SALARY-VILLAGE CLERK	3,500	3,500	3,500	3,500
01-10-10-4021	SALARY-MAYOR & TRUSTEES	23,150	25,000	24,900	28,330
01-10-10-4022	SALARY-ZONING & PLANNING	600	1,320	1,320	3,960
01-10-10-4110	HEALTH & LIFE INSURANCE (Payroll Spread)	63,736	54,000	64,795	70,968
01-10-10-4130	IMRF	-	-	70,674	85,209
01-10-10-4140	SOCIAL SECURITY	-	-	185,965	195,186
TOTAL PERSONNE	EL EXPENSES	386,816	357,903	654,178	797,987
CONTRACTOR EX	PENSES	Ī			
01-10-20-4214	VACANT LOT MOWING	5,024	3,500	3,984	3,000
01-10-20-4310	AUDIT (S-70%)	16,719	16,875	17,938	23,450
01-10-20-4311	FINANCIAL MANAGEMENT CONTRACT (S-50%)	32,745	29,320	34,340	35,000
01-10-20-4330	LEGAL FEES	86,286	50,000	114,767	90,000
01-10-20-4391	CODIFICATION	3,237	4,000	1,978	4,500
01-10-20-4392	BUILDING INSPECTORS	62,894	57,000	61,888	65,000
01-10-20-4380	PLANNING	, -	5,000	-	15,000
01-10-20-4813	EQUIPMENT MAINTENANCE	1,628	3,072	1,524	3,000
01-10-20-5215	IT SUPPORT (75%)	-	8,400	10,204	9,000
01-10-20-5216	MANAGED GIS SERVICES (20%)	-	-	-	6,000
TOTAL CONTRACT		208,533	177,167	246,622	253,950
OTHER EXPENSES		Ī			
01-10-60-4810	OFFICE SUPPLIES (S-35%)	7,197	7,350	7,100	7,350
01-10-60-4812	CREDIT CARD FEES (S-10%)	1,439	3,000	1,268	2,000
01-10-60-4430	PUBLISHING	3,936	2,000	724	1,500
01-10-60-4442	NEWSLETTER	1,050	1,200	1,694	2,500
01-10-60-4440	PRINTING	390	1,000	-	1,000
01-10-60-4530	TRAINING/TRAVEL	9,739	14,000	6,763	8,750
01-10-60-4531	MEMBERSHIPS	, -	-	-	10,000
01-10-60-5190	MISCELLANEOUS EXPENSES	10,053	8,000	18,653	8,000
01-10-60-4811	INFORMATION TECH. FUND CONTRIBUTION	30,000	40,000	40,000	, -
01-10-60-5217	SPECIAL EVENTS CONTRIBUTION	,	25,000	28,750	40,000
01-10-60-5201	NEW EQUIPMENT	2,880	3,500	2,100	2,500
01-10-60-5213	SOFTWARE LICENSES (50%)	-	27,145	24,000	25,000
01-00-60-4680	LIABILITY INSURANCE (75%)		•	•	176,500
01-10-60-5219	IMPACT FEE PAYMENTS	-	-	-	=
TOTAL OTHER EX		66,684	132,195	131,052	285,100
TOTAL EXPENSES		662,032	667,265	1,031,851	1,337,037

PERSONNEL EXPENSES

SALARY 01-10-10-4011

Salaries for Village Administrator, Administrative Services Director, Executive Assistant, Utility Billing Coordinator, Finance Clerk and auto allowance (\$3,000) for Administrator. Salaries based on percentage of time associated with this fund. Includes payout for retired Executive Assistant position for 6 months.

PART-TIME 01-10-10-4015

Assumes 1 position at 1000 hours, plus an intern.

OVERTIME 01-10-10-4014

Cost for overtime for office staff.

BENEFTIT TIME COMPENSATION 01-10-10-4017

Cost for payment of sick time compensation program based on the percentage of salaries in this fund.

SALARY-VILLAGE CLERK 01-10-10-4020

Per Village Code, \$3,500 per year.

SALARY-MAYOR & TRUSTEES 01-10-10-4021

Expenses for Mayor \$6,000 per year plus \$70.00 per meeting. Expenses for Trustees: \$70 per board meeting and other meetings. Assumes 24 board meetings plus other meetings as defined by Village Code.

SALARY-ZONING & PLANNING 01-10-10-4022

Per Village Code each meeting costs include the following. Assumes twelve meetings.

Chairman (1) \$60 Members (6) \$45

HEALTH & LIFE INSURANCE 01-10-10-4110

Health, life and dental insurance costs minus employee contributions. Assumes same cost spread as salaries and cost per health insurance with renewal occurring in January annually.

IMRF 01-10-10-4130

Illinois Municipal Retirement Fund.

SOCIAL SECURITY 01-10-10-4140

The FICA rate of 7.65%

CONTRACTOR EXPENSES

VACANT LOT MOWING 01-10-20-4214

Costs to mow private properties in violation of property maintenance code. Costs are reimbursable via the lien process.

AUDIT 01-10-20-4310 (SPREAD)

Portion of contractual costs for annual Village audit. 70% of expenses (Remaining costs in Water/Sewer/Police Pension).

FINANCIAL MANAGEMENT CONTRACT (SPREAD)

Costs for financial management support contract. 50% of total cost.

LEGAL FEES 01-10-20-4330

Costs for Village Attorney to attend meetings, write ordinances, conduct research, etc. Costs include all legal expenses, except police prosecution and adjudication.

CODIFICATION 01-10-60-4391

Contractual cost for paper and online code updates. \$500 per year for online code.

BUILDING INSPECTORS 01-10-20-4392

Costs for Lake County to perform plan review and building inspection services. \$67 per hour and assumes 820 annual hours.

PLANNER 01-10-20-4380

Contract cost for outside contractor planning fees.

EQUIPMENT MAINTENANCE 01-10-20-4813

	\$ 3.072	
Copier Maintenance	\$ 1,100	(100%)
Postage Machine Agreement	\$ 1 <i>,</i> 972	(100%)

IT SUPPORT 01-10-20-5215

Assumes (75%) 80 per hour at 150 hours per year per the Village current agreement for these services.

MANAGED GIS SERVICES 01-10-20-5216

20% split with water/sewer.

OTHER EXPENSES

OFFICE SUPPLIES 01-10-60-4810

Spread cost of officer supplies, 35%.

CREDIT CARD FEES 01-10-60-4812

10% of total credit card fees, remainder in Water/Sewer Fund.

PUBLISHING 01-10-60-4430

Costs for legal publications related to bids and public meetings.

NEWSLETTER 01-10-60-4442

Costs for printing bi-monthly newsletter. Cost for 17" x 11" color newsletter.

PRINTING 01-10-60-4440

Costs for printing various items.

TRAINING/TRAVEL 01-10-60-4530

Covers travel and training costs for administrative staff.

MEMBERSHHIPS 01-10-60-4531

Covers the cost of annual memberships.

ITEM	COST
Chamber Luncheon	\$400
ILCMA	\$300
ICMA	\$1,000
Municipal Clerks	\$100
Lake County Partners	\$ 1,700 (\$.25 per capita)
ICSC	\$100
Lake County Municipal League	\$1,000
IL Municipal League	\$1,000
Chicago Agency for Planning	\$350
IL TIF Association	\$550
Chamber Dues	\$200
Mileage	\$300
Miscellaneous	\$3,000
TOTAL	\$10,000

MISCELLANEOUS EXPENSES 01-10-60-5190

Costs for unanticipated expenses.

SPECIAL EVENTS FUND CONTRIBUTION 01-10-60-4441

Fund contribution for the Special Events Fund.

NEW EQUIPMENT 01-10-60-5201

SOFTWARE LICENSES 01-10-60-5213

75% Admin, 25% Water, 25% Sewer

Software Licenses

Anti-Spam	\$ 800
Off-Site Back-up	\$ 3,100
Website fee	\$ 2,400
Remote Access	\$ 1,350
Laserfiche	\$ 1,300
SeeClickFix	\$ 7,800
Adobe Creative Suite	\$ 1,000
EDR	\$ 3,500
Exchange Online Plan for GCC	\$ 4,000
Firewall replacement	\$ 3,500
Network Detective Pro License	\$ 600
BS&A	\$ 8,000
Paylocity	\$ 8,000
Total	\$ 30,950

IMPACT FEE PAYMENTS 01-10-60-5219

Remittance for impact fees paid to Library District and the Fire Protection District.

POLICE

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
PERSONNEL EXPE	ENSES				
01-20-10-4010	SALARY-FULL-TIME OFFICERS	1,428,382	1,566,201	1,500,555	1,699,886
01-20-10-4011	SALARY-POLICE CLERICAL	70,527	68,463	70,477	70,517
01-20-10-4012	PART-TIME OFFICERS	86,906	100,000	65,000	100,000
01-20-10-4014	OVERTIME, COURT & RANGE	71,051	65,000	93,715	75,000
01-20-10-4015	PART-TIME POLICE CLERICAL	14,561	13,000	13,726	28,314
01-20-10-4016	OIC PAY	10,967	8,000	9,995	14,000
01-20-10-4018	HOLIDAY PAY	38,470	20,000	16,100	20,000
01-20-10-4019	FTO PAY	1,414	1,000	2,000	1,500
01-20-10-4021	BENEFIT TIME COMPENSATION	6,821	6,500	6,236	6,800
01-20-10-4110	HEALTH & LIFE INSURANCE (Payroll Spread)	260,332	244,770	226,470	225,584
01-20-50-4022	POLICE COMMISSION PAYROLL	540	600	-	600
TOTAL PERSONN		1,989,971	2,093,534	2,004,274	2,242,201
		_,,,,,,,		_,,	,,
CONTRACTOR EX	PENSES				
01-20-20-4330	LEGAL FEES - PROSECUTION	36,312	30,000	36,707	37,000
01-20-20-4460	DISPATCHING	60,525	102,000	82,000	82,000
01-20-50-4330	POLICE COMMISSION & TRAINING ACADEMY	12,425	18,234	6,112	18,234
01-20-50-5191	POLICE COMMISSION EXPENSES	1,027	-	-	-
01-20-20-4393	POLICE POLICY PROGRAM	6,880	6,800	7,585	-
01-20-20-4710	RADIO NETWORK FEES	11,016	11,016	11,016	11,016
01-20-20-4813	EQUIPMENT MAINTENANCE	6,658	9,350	7,458	-
01-20-20-4331	ADMINISTRATIVE ADJUDICATION	525	2,100	-	2,100
01-20-20-4332	CRIME LAB	15,325	15,500	15,325	15,500
01-20-20-4333	STOLEN PROPERTY DATABASE	2,302	2,500	2,345	-
TOTAL CONTRAC	TOR EXPENSES	152,995	197,500	168,548	165,850
		_			
OTHER EXPENSES 01-20-60-4170	UNIFORM ALLOWANCE	27 520	35.000	21 264	38,000
		27,539	25,000	21,264	28,000
01-20-60-4171	VEST REPLACEMENTS	2,663	5,400	5,511	6,000
01-20-60-4393	POLICE POLICY		-	7,320	7,400
01-20-60-4530	TRAINING/TRAVEL	12,411	19,500	17,827	19,500
01-20-60-4531 01-20-60-4560	MEMBERSHIPS RANGE & SUPPLIES	6,686	6,500	8,317 11,294	14,500 16,500
		10,954	14,000	,	,
01-20-60-4570	PHYSICALS/TESTING	720 5 201	1,500	-	6,060
01-20-60-4810	OFFICE SUPPLIES (S-35%)	5,201	7,350	6,000	12,000
01-20-60-4440	PRINTING/PUBLIC RELATION	5,501	4,500	1,642	4,500
01-20-60-4940 01-20-60-5190	SUPPLIES	967	6,000	6,023	6,000
	MISCELLANEOUS	5,305	7,000	4,000	8,000
01-20-60-5205	FLEET REPLACEMENT CONTRIBUTION	82,080	90,000	90,000	-
01-20-60-3897	FLEET REPAIR FUND CONTRIBUTION	112,000	112,000	112,000	-
01-20-60-5201	NEW EQUIPMENT	1,700	5,053	3,945	21,800
01-20-60-5213	SOFTWARE LICENSES	-	9,350	6,000	19,195
TOTAL OTHER EX	PENSES	273,727	313,153	301,144	169,455
TOTAL EXPENSES		2,416,693	2,604,187	2,473,966	2,577,506

PERSONNEL EXPENSES

SALARY-FULL-TIME OFFICERS 01-20-10-4010

Salaries for current full-time police officers per collective bargaining agreement. Includes salaries for Chief, one Lieutenant position, and four Sergeants.

SALARY-POLICE CLERICAL 01-20-10-4011

Salaries for 1 full-time records position.

SALARY-PART-TIME POLICE CLERICAL 01-20-10-4012

Two part-time records position.

SALARY-PART-TIME OFFICERS 01-20-10-4012

Costs for part-time officers @ \$28 per hour. Includes \$16,000 for part-time community service officer @ \$18 per hour.

OVERTIME, COURT & RANGE 01-20-10-4014

Overtime for operations, court and range training.

OIC (OFFICER IN CHARGE) PAY 01-20-10-4016

Per collective bargaining agreement, officer in charge receives extra hour of pay for 8 hour shift and 1.5 hours for 12-hour shift. Assumes 5.5 shifts per pay period @ \$32 per hour.

SICK PAY BUY BACK 01-20-10-4021

Per collective bargaining agreement, sick pay buyback program for eligible staff members.

HOLIDAY PAY 01-20-10-4018

Per collective bargaining agreement, pay for officers and non-union officers to work designated (10) number of holidays, one is a premium holiday (2.5 times regular pay).

FTO (FIELD TRAINING OFFICER) PAY 01-20-10-4019

Per collective bargaining agreement, while training new officers, officer receives an extra hour per day. Assumes that no new full-time officers will be hired, but minimal amount included in the event a new officer is hired.

HEALTH & LIFE INSURANCE 01-20-10-4110

Health, life and dental insurance costs minus employee contributions. Assumes same cost spread as salaries and cost per new health insurance agreement.

POLICE COMMISSION HEARINGS 01-20-50-4022

Costs for police commission members (3) @ \$45.00 per meeting.

IMRF 01-20-10-4130

SOCIAL SECURITY 01-20-10-4140

CONTRACTOR EXPENSES

LEGAL FEES 01-20-20-4330

Court fees for prosecutions.

DISPATCHING 01-20-20-4460

Costs per dispatching agreement with FoxComm (\$80,000 per year) and Police Hearing Services (\$2,000) used in conjunction with dispatching services through Fox Comm.

POLICE COMMISSION & ACADEMY 01-20-50-4330

Costs for police commission testing for new hire officer list, polygraph, psychology and medical test. Also includes costs for two police officer academy slot.

POLICE POLICY PROGRAM 01-20-20-4393

Cost for annual licensing and maintenance fee police policy program with Lexipol.

RADIO NETWORK FEES 01-20-60-4710

Star Com Radio Network \$11,016 (\$34 per officer per month for 27 officers.)

EQUIPMENT MAINTENANCE 01-20-20-4813

ITEM	COST
PD camera system	\$300
Radar Certification	\$300
Livescan System	\$4,700
Camera System Warranty	\$600
Records maintenance	\$450
The Beast (Investigations)	\$1,000
PD copier maintenance	\$2,000
TOTAL	\$9,350

ADMINISTRATIVE ADJUDICATION 01-20-20-4331

Village's fee for the Adjudication process with the Village of Fox Lake. (\$175 per month)

CRIME LAB 01-20-20-4332

Costs for North East Illinois Regional Crime Lab at \$1.33 per resident, plus \$3,000 storage rental fee.

LEADS DATABASE 01-20-20-4333

Costs for stolen property database to track property that has been stolen.

OTHER EXPENSES

UNIFORM ALLOWANCE 01-20-60-4170

Costs for miscellaneous department issued equipment such as holsters, caps, etc. \$25,000.

VEST REPLACEMENT 01-20-60-4171

Cost to replace 9 police vests.

POLICE POLICY PROGRAM 01-20-20-4393

Cost for annual licensing and maintenance fee police policy program with Lexipol.

TRAINING/TRAVEL 01-20-60-4530

Travel, training, fire arms, cyber, supervisor and tuition reimbursement.

MEMBERSHIPS 01-20-60-4531

Memberships	Annual Fee
Lake County S/A Office Forensic Lab	\$2,995.00
Major Crash Assistance Team	\$500.00
TransUnion	\$1,000.00
Major Crimes Task Force	\$1,992.00
SmartSafety Software	\$156.00
ILEAS	\$120.00
Cardmember	\$150.00
IL Assoc of Chief's of Police	\$20.00
Lake County Police Chief Assoc	\$50.00
Axon license bundle	\$468.00
Mid-States Organized Crime	\$150.00
Critical Reach	\$360.00
NIPAS	\$6,100.00
TOTAL	\$14,500

RANGE-SHOOT & SUPPLIES 01-20-60-4560

	\$14,000
Range Fees (6)	\$ 1,350
Ammunition	\$ 10,150
Taser products	\$ 2,500

PHYSICALS/TESTING 01-20-60-4570

Cost for required employment physicals and testing.

OFFICE SUPPLIES 01-20-60-4810 (SPREAD)

35% of costs for office supplies.

PRINTING/PUBLIC RELATIONS 01-20-60-4440

Costs for printing letterhead, forms, tickets and public relations materials.

SUPPLIES 01-20-60-4940

Costs for general supplies and for evidence processing.

MISCELLANEOUS 01-20-60-5190

Cost for unanticipated expenses.

NEW EQUIPMENT 01-20-60-5201

Radar Signs \$4,200 NIPAS Equipment \$15,000 Detective Laptop \$2,600

SOFTWARE LICENSES 01-20-60-5213

FLEET

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
PERSONNEL EXPENSES	S				
01-30-10-4011	SALARY (Payroll Spread)	66,449	78,668	28,373	66,717
01-30-10-4014	OVERTIME	-	1,000	1,260	3,500
01-30-10-4017	BENEFIT TIME COMPENSATION	-	1,000	-	1,000
01-30-10-4110	HEALTH & LIFE INSURANCE (Payroll Spread)	24,189	22,258	22,258	47,736
TOTAL PERSONNEL EX	(PENSES	90,637	102,926	51,891	118,953
CONTRACTOR EXPENS	SES				
01-30-20-4230	CONTRACT VEHICLE MAINTENANCE (75%)	38,286	45,000	80,321	30,000
TOTAL CONTRACTOR	EXPENSES	38,286	45,000	80,321	30,000
OTHER EXPENSES					
01-30-60-4170	UNIFORM	-	-	-	400
01-30-60-4530	TRAINING/TRAVEL	-	-	-	500
01-30-60-4531	MEMBERSHIPS	-	-	-	2,000
01-30-60-4820	AUTOMOTIVE FUEL/OIL (75%)	77,121	104,000	100,240	82,500
01-30-60-4930	VEHICLE SUPPLIES (75%)	45,320	60,000	55,500	52,500
01-30-60-4931	MECHANIC TOOLS (75%)	-	-	-	750
01-30-60-4932	VEHICLE LEASES	-	-	-	90,000
TOTAL OPERATING EX	(PENSES	122,442	164,000	155,740	228,650
TOTAL EXPENSES		251,365	311,926	287,952	377,603

PERSONNEL EXPENSES

SALARY 01-30-10-4011

Salary for Village Mechanic. Payroll spread 75% Fleet, 12.5% water, 12.5% sewer.

OVERTIME 01-30-10-4014

Cost for overtime for Mechanic.

BENEFTIT TIME COMPENSATION 01-30-10-4017

Cost for payment of sick time compensation program.

IMRF 01-30-10-4130

Illinois Municipal Retirement Fund.

SOCIAL SECURITY 01-30-10-4140

The FICA rate of 7.65%

CONTRACTOR EXPENSES

MAINTENANCE-VEHICLES 01-30-20-4230

Contractor costs for vehicle maintenance.

OTHER EXPENSES

UNIFORM ALLOWANCE 01-30-60-4170

Uniform expenses for the Mechanic

TRAINING/TRAVEL 01-30-60-4530

Various training costs for the Mechanic such as training materials, classes and workshops

MEMBERSHIPS 01-30-60-4531

Cost for annual memberships.

AUTOMOTIVE FUEL/OIL 01-30-60-4820

75% of costs for fuel and oil.

SUPPLIES-VEHICLE 01-30-60-4930

75 % of the costs for parts for fleet maintenance.

MECHANIC TOOLS 01-30-60-4931

75% of costs for any tools that the Mechanic may need.

VEHICLE LEASES 01-30-60-4932

Contracted lease payments for vehicles through Enterprise Fleet Management Services.

STREETS

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
PERSONNEL EXPE	ENSES	Ī			
01-41-10-4013	SALARY (Payroll Spread)	310,607	244,168	280,793	305,579
01-41-10-4012	PART-TIME (Payroll Spread)	15,353	30,750	23,934	25,000
01-41-10-4014	OVERTIME (Payroll Spread)	25,586	25,000	26,192	30,950
01-41-10-4017	BENEFIT TIME COMPENSATION (Payroll Spread)	1,573	2,000	3,832	4,000
01-41-10-4110	HEALTH & LIFE INSURANCE (Payroll Spread)	74,588	76,000	74,800	72,243
TOTAL PERSONN	, , , ,	427,707	377,918	409,552	437,772
CONTRACTOR EX	PENSES	Ī			
01-41-20-4320	ENGINEERING	82	6,000	6,000	10,000
01-41-40-4240	STREET MAINTENANCE	87,487	90,000	85,712	90,000
01-41-20-4242	STREET SWEEPING	5,150	5,400	5,275	5,400
01-41-40-4271	SIDEWALK MAINTENANCE	648	75,000	65,980	75,000
TOTAL CONTRAC	TOR EXPENSES	93,367	176,400	162,967	180,400
		_			
OTHER EXPENSES					
01-41-60-4170	UNIFORM ALLOWANCE (S-50%)	1,751	3,000	1,200	3,000
01-41-60-4530	TRAVEL/TRAINING	900	2,000	1,000	2,000
01-41-60-4531	MEMBERSHIPS	-	-	-	835
01-41-60-4570	TESTING/PHYSICALS	344	2,000	750	1,000
01-41-40-4241	STORM SEWERS	18,902	64,000	50,000	64,000
01-41-40-4260	ROAD SALT	49,726	67,000	120,128	-
01-41-40-4270	SIGNS & LIGHTS	4,155	5,000	5,274	5,000
01-41-40-4660	STREET LIGHT ELECTRICITY	195,246	135,000	133,785	135,000
01-41-40-4940	SUPPLIES	8,159	12,000	15,060	15,000
01-41-60-5205	FLEET REPLACEMENT CONTRIBUTION	67,800	67,800	67,800	-
01-41-60-3897	FLEET REPAIR FUND CONTRIBUTION	98,000	98,000	98,000	-
01-41-60-5201	NEW EQUIPMENT	-	1,800	1,779	5,000
TOTAL OTHER EX	PENSES	444,983	457,600	494,776	230,835
TOTAL EXPENSES		966,057	1,011,918	1,067,294	849,007

PERSONNEL EXPENSES

SALARY 01-41-10-4013

Spread of salaries for time spent on Streets maintenance activities.

PART-TIME 01-41-10-4012 (SPREAD)

Spread of expenses for two, 1,000 hour part-time positions, plus seasonal summer positions.

OVERTIME 01-41-10-4014

Overtime is spread to Streets/Water/Sewer/Metra/Mansion based on the percentage of public works salaries in each fund. Costs for overtime are broken down below.

On call compensation \$5,200
On call pay \$15,750
Other overtime \$10,000

SICK TIME COMPENSATION 01-41-10-4017

Cost for payment of sick time compensation program based on the percentage of salaries in this fund.

HEALTH & LIFE INSURANCE 01-41-10-4110

Health, life and dental insurance costs minus employee contributions. Assumes same cost spread as salaries and cost per new health insurance agreement.

CONTRACTOR EXPENSES

ENGINEERING 01-41-20-4320

Miscellaneous engineering services for street related items such as drainage analysis, storm water and street analysis. Does not include costs for road resurfacing design and construction engineering.

MAINTENANCE-STREETS 01-41-40-4240

Contractor costs for patching, crack filling and pavement marking.

STREET SWEEPING 01-41-40-4242

Contractor costs for street sweeping (2 rotations) for 63 lane miles and 4 miles of parking facilities.

MAINTENANCE-SIDEWALKS 01-41-40-4271

Contractor costs for sidewalk and curb removal/replacement.

OTHER EXPENSES

UNIFORM ALLOWANCE 01-41-60-4170 (SPREAD)

50% of Public Works uniforms, remaining costs in Water (25%) and Sewer (25%).

TRAVEL/TRAINING 01-41-60-4530

Various training costs for Streets activities such as training materials, classes and workshops.

MEMBERSHIPS 01-41-60-4531

Annual membership costs.

ILPSI

APWA \$185 IPWAMAN \$100 NIPSTA \$450

TESTING/PHYSICALS 01-41-60-4570

Costs for required employment testing and physicals.

STORM SEWERS 01-41-40-4241

Parts for maintenance and repair of municipal storm sewers such as pipes, structures and ditches.

SALT 01-41-40-4260

1,000 tons of de-icing materials under state and county bid at \$67 per ton.

SIGNS & LIGHTS 01-41-40-4270

Parts for repairs of municipal signs and street lights.

ELECTRIC-STREET LIGHTS 01-41-40-4660

Electricity costs for municipal street lights. Assumes reduction based on LED conversions of Villageowned street lights.

SUPPLIES 01-41-40-4940

Supplies for street maintenance such as cold patch, paint and equipment rental.

NEW EQUIPMENT 01-41-60-5201

Cost to purchase a brine sprayer.

FACILITIES GROUNDS

		ACTUAL	BUDGET	EST. YR. END	BUDGET
		2021/2022	2022/2023	2022/2023	2023/2024
CONTRACTOR EX	PENSES				
01-46-20-4213	MOWING/WEEDING	21,685	25,500	28,355	25,500
01-46-40-4210	MAINTENANCE-BUILDING	11,928	14,000	13,000	14,000
01-46-40-4211	MAINTENANCE-PARKS	16,192	15,280	12,542	16,500
01-46-40-4214	TREE & ROW MAINTENANCE	322	8,000	2,560	5,000
01-46-20-4215	POND TREATMENTS	14,248	14,000	14,522	14,600
01-46-60-4360	CLEANING SERVICE	6,915	8,540	7,640	8,000
TOTAL CONTRAC	TOR EXPENSES	71,290	85,320	78,620	83,600
OTHER EXPENSES	5				
01-46-40-4910	SUPPLIES-BUILDING	14,034	11,000	11,000	16,000
01-46-40-4911	SUPPLIES-PARKS	14,125	20,000	16,602	20,000
01-46-40-4920	BUILDING SOFTWARE FEES	2,187	2,400	2,294	2,400
01-46-60-4420	TELEPHONE/INTERNET (S-75%)	17,503	18,000	15,492	18,000
01-46-60-5201	NEW EQUIPMENT	3,750	-	-	-
TOTAL OTHER EX	PENSES	51,598	51,400	45,388	56,400
TOTAL EXPENSES		122,888	136,720	124,007	140,000

CONTRACTOR EXPENSES

MOWING/WEEDING 01-46-20-4213

Mowing services for Glacier, Cedar Crossing 1 & 2, Loffredo, Steven Sherwood and Lehmann Parks. Assumes 30 rotations for weeding and weeding treatments for Cedar Avenue, Metra Station and Lehmann Park.

MAINTENANCE-BUILDING 01-46-40-4210

Contract repairs, as needed, to municipal facilities such as Village Hall, Police Station, Public Works Facilities.

MAINTENANCE-PARKS 01-46-40-4211

Contract maintenance at municipal parks such as weed treatments, tank pump-out at Loffredo Park and tree maintenance.

TREE & ROW MAINTENANCE 01-46-40-4214

Contract tree maintenance and right of way maintenance.

POND TREATMENTS 01-46-20-4215

Cost for chemical treatments to Steven Sherwood Park and the Longwood Centre Pond.

CLEANING SERVICE 01-46-60-4360

	\$8,540
Extra Cleaning	\$1,000
Police Department (\$100 per cleaning)	\$5,200
Village Hall (\$45 per cleaning)	\$2,340

OTHER EXPENSES

SUPPLIES-BUILDING 01-46-40-4910

Supplies for municipal buildings such as paper supplies.

SUPPLIES-PARKS 01-46-40-4911

Supplies for municipal parks.

BUILDING SOFTWARE FEES 01-46-40-4920

7 licenses at \$320 annually, plus 2 administrative licenses at \$80 annually.

TELEPHONE/INTERNET 01-46-60-4420

Telephone and internet for Police Public Works and Village Hall. 75% of costs for 11 staff cell phones, remaining in Water/Sewer.

NEW EQUIPMENT 01-46-60-5201

WATER SEWER REVENUE

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
USER FEES & CHA 60-00-40-3510 60-00-40-3610	IRGES WATER CUSTOMER SALES SEWER CUSTOMER SALES	2,027,454 1,251,944	1,861,934 1,340,669	2,025,369 1,244,256	1,947,521 1,223,623
60-00-40-3620	PENALTIES	48,007	30,000	50,000	40,000
TOTAL OTHER RE	VENUE	3,327,405	3,232,603	3,319,625	3,211,144
OTHER REVENUE					
60-00-50-3611	COUNTY SURCHARGE FEE METER SALES	58,129	55,000	57,210	55,000
60-00-50-3600		6,405	1,000	-	1,000
60-00-30-3581	WATER INSPECTION FEES SEWER INSPECTION FEES	560	500	300	500
60-00-30-3591		560	500	300	500
60-00-30-3800	MISCELLANEOUS REVENUE	6,823	10,000	5,100	7,000
60-00-30-3810		7,929	50,000	6,000	7,000
60-00-30-3890	NSF CHARGES	430	500	825	500
TOTAL OTHER RE		80,835	117,500	69,735	71,500
TOTAL REVENUE		3,408,240	3,350,103	3,389,360	3,282,644

USER FEES & CHARGES

WATER CUSTOMER SALES 60-00-40-3510

\$9.88 per 1,000 gallons in FY 23/24. Accounts for minimum bill practice. Assumes \$30,000 in revenue for minimum billing.

SEWER CUSTOMER SALES 60-00-40-3610

\$7.70 per 1,000 gallons in FY 23/24 (\$2.85 reduced sewer) and per approved rate schedule in FY 23/24. Assumes \$30,000 in revenue for minimum billing.

PENALTIES 60-00-40-3620

Funds include 10% penalty for non-payment of water and sewer bills and \$100 reconnection charge. Assumes 30 reconnections.

OTHER REVENUE

COUNTY SURCHARGE FEES

Revenue from County Surcharge Fee collected by the Village, plus surcharge fee from businesses.

METER SALES 60-00-50-3600

Funds from sale of new water meters for new construction.

WATER INSPECTION FEES 60-00-30-3581

\$100 fee for the inspection of new construction and new replacement service taps. Assumes 5 inspections.

SEWER INSPECTION FEES 60-00-30-3591

\$100 fee for the inspection of new construction and new replacement service taps. Assumes 5 inspections.

MISCELLANEOUS REVENUE 60-00-30-3800

For one-time receipts, not anticipated such as insurance claims and auctioning of equipment.

INTEREST EARNED 60-00-30-3810

Interest earned from investments based on percentage of funds from the W/S Fund.

NSF CHARGES 60-00-30-3890

For charges related to not-sufficient fund payments.

WATER

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
PERSONNEL EXPE	NCEC				
60-42-10-4013	SALARY (Payroll Spread)	201,920	181,715	185,396	221,912
60-42-10-4015	PART-TIME WATER (Payroll Spread)	201,320	15,375	11,964	14,805
60-42-10-4014	OVERTIME (Payroll Spread)	10,747	13,000	14,077	15,000
60-42-10-4017	BENEFIT TIME COMPENSATION (Payroll Spread)	2,831	1,500	1,965	2,000
60-42-10-4110	HEALTH & LIFE INSURANCE (Payroll Spread)	51,277	45,572	40,000	47,402
60-42-10-4130	IMRF	18,523	16,509	15,289	21,659
60-42-10-4140	SOCIAL SECURITY	17,366	15,804	14,677	18,349
TOTAL PERSONNE		324,990	289,475	283,367	341,127
CONTRACTOR EVE	DENICEC				
CONTRACTOR EXP		2 175	1 107	1 107	9.00
60-42-20-4231	METER READING SERVICES	2,175	1,107	1,107	860
60-42-20-4310	AUDIT (S-15%)	4,013	4,050	4,305	5,025
60-42-60-4440 60-42-20-4311	PRINTING/BILLING (S-50%)	4,514 16,373	4,600	3,800 17,170	6,500 17,500
60-42-20-4311	FINANCIAL MANAGEMENT CONTRACT (S-25%) CONTRACT VEHICLE MAINTENANCE (12.5%)	10,373	14,660	17,170	5,000
60-42-40-4250	WATER SYSTEM MAINTENANCE	22,609	40,000	35,000	60,000
60-42-20-4320	ENGINEERING WATER	22,009	25,000	4,118	35,000
60-42-20-4330	LEGAL FEES	3,216	2,000	3,518	5,000
60-42-20-4351	CLC-JAWA	384,523	346,500	319,341	334,194
60-42-20-4352	CLC-JAWA CONNECTION FEES	227,250	234,900	234,900	234,900
60-42-20-4353	METER CALIBRATION/VERIFICATION	2,350	4,000	4,000	4,200
60-42-20-4213	MOWING	3,888	4,200	3,996	4,200
60-42-20-5215	IT SUPPORT (12.5%)	-	1,800	2,187	1,500
06-42-20-5216	MANAGED GIS SERVICES (40%)	-	-,	-	12,000
TOTAL CONTRACT	OR EXPENSES	670,911	682,817	633,442	725,879
OTHER EVENIES					
OTHER EXPENSES 60-42-60-4170	UNIFORM ALLOWANCE	602	1 500	1 000	1 500
00-42-00-41/0	UNIFORIVI ALLOWAINCE	007	1,500	1,000	1,500
60-42-60-4530	TRAINING/TRAVEL		1 500	1 6 2 7	2 000
60-42-60-4530	TRAINING/TRAVEL	1,083	1,500	1,627	2,000 450
60-42-60-4531	MEMBERSHIPS	1,083 -	-	-	450
60-42-60-4531 60-42-40-4870	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%)	1,083 - 4,020	5,000	3,824	450 6,000
60-42-60-4531 60-42-40-4870 60-42-60-4810	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%)	1,083 - 4,020 4,823	5,000 4,000	3,824 3,500	450 6,000 5,800
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4680	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%)	1,083 - 4,020 4,823 29,611	5,000 4,000 26,041	3,824 3,500 83,259	450 6,000 5,800 26,041
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4680 60-42-60-4812	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%)	1,083 - 4,020 4,823 29,611 6,477	5,000 4,000 26,041 13,500	3,824 3,500 83,259 6,654	450 6,000 5,800 26,041 8,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4680 60-42-60-4812 60-42-40-4950	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER	1,083 - 4,020 4,823 29,611 6,477 25,288	5,000 4,000 26,041 13,500 32,000	3,824 3,500 83,259 6,654 30,000	450 6,000 5,800 26,041 8,000 35,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4680 60-42-60-4812	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%)	1,083 - 4,020 4,823 29,611 6,477	5,000 4,000 26,041 13,500 32,000 4,000	3,824 3,500 83,259 6,654 30,000 12,000	450 6,000 5,800 26,041 8,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4680 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237	5,000 4,000 26,041 13,500 32,000 4,000 50,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4680 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-60-4420	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913	5,000 4,000 26,041 13,500 32,000 4,000	3,824 3,500 83,259 6,654 30,000 12,000	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4680 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237	5,000 4,000 26,041 13,500 32,000 4,000 50,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4820	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%)	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237	5,000 4,000 26,041 13,500 32,000 4,000 50,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4820 60-42-60-4930	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%)	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753	5,000 4,000 26,041 13,500 32,000 4,000 50,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4820 60-42-60-4930 60-42-60-4931	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%)	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4820 60-42-60-4930 60-42-60-4931 60-42-40-4960	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4930 60-42-60-4931 60-42-40-4960 60-42-60-4961	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES GENERATOR LOAD BANK TESTING & REPAIRS	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753 - - 2,052	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500 10,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4820 60-42-60-4931 60-42-40-4960 60-42-60-4961 60-42-60-5019	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753 - - 2,052 - 554,381	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000 - - 2,153 - 554,381	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500 10,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4820 60-42-60-4931 60-42-60-4931 60-42-60-4961 60-42-60-5019 60-42-60-5205	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753 - - 2,052 - 554,381 50,100	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000 - - 2,153 - 554,381 51,600	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509 - - 2,425 - 526,645 51,600	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500 10,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4930 60-42-60-4931 60-42-60-4961 60-42-60-5019 60-42-60-5205 60-42-60-5206	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753 - - 2,052 - 554,381 50,100 35,000	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000 - - 2,153 - 554,381 51,600 36,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509 - - 2,425 - 526,645 51,600 36,000	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500 10,000
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4930 60-42-60-4931 60-42-60-4961 60-42-60-5019 60-42-60-5205 60-42-60-5206 60-42-60-5206 60-42-60-3897	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION FLEET REPAIR FUND CONTRIBUTION	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753 - - 2,052 - 554,381 50,100 35,000 35,000	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000 - - 2,153 - 554,381 51,600 36,000 35,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509 - 2,425 - 526,645 51,600 36,000 35,000	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500 10,000 554,300
60-42-60-4531 60-42-60-4810 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4820 60-42-60-4930 60-42-60-4931 60-42-60-4961 60-42-60-5019 60-42-60-5205 60-42-60-5205 60-42-60-5203 60-42-60-5201 60-42-60-5201 60-42-60-5201 60-42-60-5201	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION FLEET REPAIR FUND CONTRIBUTION INFORMATION TECH. FUND CONTRIBUTION NEW EQUIPMENT SOFTWARE LICENSES (25%)	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753 - - 2,052 - 554,381 50,100 35,000 35,000 15,000 789	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000 - - 2,153 - 554,381 51,600 36,000 35,000 20,000 - 13,573	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509 - - 2,425 - 526,645 51,600 36,000 35,000 20,000	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500 10,000 554,300 - - - - 6,000 12,500
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4420 60-42-60-4930 60-42-60-4931 60-42-60-4961 60-42-60-5019 60-42-60-5205 60-42-60-3897 60-42-60-5203 60-42-60-5201	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION FLEET REPAIR FUND CONTRIBUTION INFORMATION TECH. FUND CONTRIBUTION NEW EQUIPMENT SOFTWARE LICENSES (25%)	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753 - - 2,052 - 554,381 50,100 35,000 35,000 15,000	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000 - - 2,153 - 554,381 51,600 36,000 35,000 20,000	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509 - 2,425 - 526,645 51,600 36,000 35,000 20,000	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500 10,000 554,300
60-42-60-4531 60-42-40-4870 60-42-60-4810 60-42-60-4812 60-42-60-4812 60-42-40-4950 60-42-40-4610 60-42-40-4660 60-42-60-4820 60-42-60-4930 60-42-60-4931 60-42-60-4961 60-42-60-5019 60-42-60-5205 60-42-60-5205 60-42-60-5205 60-42-60-5203 60-42-60-5201 60-42-60-5201 60-42-60-5201	MEMBERSHIPS METERS - PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) SUPPLIES-WATER NATURAL GAS ELECTRICITY TELEPHONE AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) JULIE LOCATES GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION FLEET REPAIR FUND CONTRIBUTION INFORMATION TECH. FUND CONTRIBUTION NEW EQUIPMENT SOFTWARE LICENSES (25%)	1,083 - 4,020 4,823 29,611 6,477 25,288 5,913 49,237 2,753 - - 2,052 - 554,381 50,100 35,000 35,000 15,000 789	5,000 4,000 26,041 13,500 32,000 4,000 50,000 3,000 - - 2,153 - 554,381 51,600 36,000 35,000 20,000 - 13,573	3,824 3,500 83,259 6,654 30,000 12,000 42,232 2,509 - 2,425 - 526,645 51,600 36,000 35,000 20,000 - 12,000	450 6,000 5,800 26,041 8,000 35,000 13,500 50,000 3,000 13,750 8,750 125 2,500 10,000 554,300 - - - - 6,000 12,500

PERSONNEL EXPENSES

SALARY 60-42-10-4013

Portion of salaries based on time spent on Water activities. Salary for Village Mechanic. Payroll spread 75% Fleet, 12.5% water, 12.5% sewer.

PART-TIME WATER 60-42-10-4015

Spread (25%) of expenses for two, 1,000 hour part-time positions, plus seasonal summer positions.

OVERTIME 60-42-10-4014

Overtime is spread to Streets/Water/Sewer/Metra/Mansion based on the percentage of public works salaries in each fund. Costs for overtime are broken down below.

On call compensation \$6,000 On call pay \$16,000 Other overtime \$31,000

SICK TIME COMPENSATION 60-42-10-4017

Cost for payment of sick time compensation program based on the percentage of salaries in this fund.

HEALTH & LIFE INSURANCE 60-42-10-4110

Health, life and dental insurance costs minus employee contributions. Assumes same cost spread as salaries and cost per new health insurance agreement.

IMRF 60-42-10-4130

The value is calculated at the Village's projected contribution rate for eligible payroll in this fund.

SOCIAL SECURITY 60-42-10-4140

Social Security and Medicare costs related to salaries in this fund.

CONTRACTOR EXPENSES

METER READING SERVICES 60-42-20-4231 (SPREAD)

50% of meter reading support (860).

AUDIT 60-43-20-4310 (SPREAD)

Portion of contractual costs for annual Village audit. 15% of expenses.

PRINTING/BILLING 60-42-60-4440 (SPREAD)

D 1	Ć 2 F0F	/EOO/\	(2.825 bi-monthly	1- 111 - 1
Postage	\$ 3.585	(50%)	1 / X / 5 NI-MONTHIV	nilici
I USLUEL	J J.JUJ	130701	12.023 DI HIDHUHV	$\omega_{\rm HIJ}$

Contract Billing/Billing Stock \$ 1,500 (50%)

\$ 5,085

FINANCIAL MANAGEMENT CONTRACT (SPREAD) 60-42-20-4311

Costs for financial management support contract. 25% of total cost.

CONTRACT VEHICLE MAINTENANCE 60-42-20-4230

Contractor costs (12.5%) for vehicle maintenance.

WATER SYSTEM MAINTENANCE 60-42-40-4250

Contract Water System Maintenance, Water Testing Services, SCADA Maintenance, Water Main Repairs, Well Repairs, Hydrant/Valve Maintenance, water system leak survey.

ENGINEERING-WATER 60-42-20-4320

Costs for miscellaneous engineering work for water treatment operations.

LEGAL FEES 60-42-20-4330

Legal fees associated with the water system.

CLC-JAWA 60-42-20-4351

Contractor costs to purchase water from the Central Lake County Joint Action Water Agency (CLCJAWA).

CLCJAWA CONNECTION FEES 60-42-20-4352

Set cost per agreement with CLCJAWA for connection fees as established in Ordinance No. 2019-07-01.

METER CALIBRATION/VERIFICATION 60-42-20-4353

Contractor costs to calibrate and verify meter readings on Water Facilities Building meter.

MOWING 60-42-20-4213

Contractual costs for mowing water facilities and assumes 30 rotations.

IT SUPPORT 60-42-20-5215

Assumes (12.5%) 80 per hour at 150 hours per year per the Village current agreement for these services.

MANAGED GIS SERVICES 60-42-20-5216

Assumes 40%, split with admin and sewer.

OTHER EXPENSES

UNIFORM ALLOWANCE 60-42-60-4170 (SPREAD)

Cost split between Water (25%), Sewer (25%) and Streets (50%).

TRAINING/TRAVEL 60-42-60-4530

Various training costs for Water activities such as training materials, classes and workshops.

MEMBERSHIPS 60-42-60-4531

Cost for annual memberships, split 50/50 water and sewer.

IRWA \$321 AWWA \$372 APWA \$93 NSWWA \$100

METERS-PARTS & REPAIRS 60-42-40-4870 (SPREAD)

Cost for new meters and replacement meters (split with Sewer). Replacement meters are typically the responsibility of the Village. New meters are reimbursed.

OFFICE SUPPLIES 60-42-60-4810 (SPREAD)

15% of office supplies. Remaining costs in Administration (35%), Police (35%) and Sewer (15%).

LIABILITY INSURANCE 60-42-60-4680 (SPREAD)

Contribution to Insurance Fund for liability and workman's compensation insurance related to Water.

CREDIT CARD FEES 60-42-60-4812 (SPREAD)

45% of costs. Remaining in Sewer (45%) and Administration (10%).

AUTOMOTIVE FUEL/OIL 60-42-60-4820

12.5% of costs for fuel and oil.

SUPPLIES-VEHICLE 60-42-60-4930

12.5% of the costs for parts for fleet maintenance.

MECHANIC TOOLS 60-42-60-4931

12.5% of costs for any tools that the Mechanic may need.

SUPPLIES-WATER 60-42-40-4950

Supplies for Water repairs to operating controls, motors, pumps, chemical feed equipment, treatment facilities, elevated storage tanks, meters, valves, and hydrants. Includes costs for treatment chemicals; phosphate and chlorine.

NATURAL GAS – WATER 60-42-40-4610

Natural gas for water well house facilities.

ELECTRIC 60-42-40-4660

Electricity for water facilities.

TELEPHONE 60-42-60-4420

Well house phone costs and cellphone costs for water related personnel.

JULIE LOCATES 60-42-40-4960

Annual fee to be involved in the JULIE Underground Utility Locating Program, which is based on the number of calls per year. Assumes 2,000 calls @ \$1.02 per call, plus transmission charges.

GENERATOR LOAD BANK TESTING 60-42-60-4961

Costs for bi-annual testing of the generators for performance. 50/50 split with sewer.

2015 DEBT SERVICE 60-42-60-5019

2015 debt services with original bond issued in 2006. Bond matures in 2026.

2016 DEBT SERVICE 60-42-60-5019

2016 IEPA Loan for water projects. 1.86% interest. Bond matures in 2036.

2021 DEBT SERVICE 60-42-60-5019

IEPA loan for the land bridge.

NEW EQUIPMENT 60-42-60-5201

Cost of enclosed trailer, 50/50 split with sewer.

SOFTWARE LICENSES 01-10-60-5213

75% Admin, 25% Water, 25% Sewer

Software Licenses

Anti-Spam	\$ 800
Off-Site Back-up	\$ 3,100
Website fee	\$ 2,400
Remote Access	\$ 1,350
Laserfiche	\$ 1,300
SeeClickFix	\$ 7,800
Adobe Creative Suite	\$ 1,000
EDR	\$ 3,500
Exchange Online Plan for GCC	\$ 4,000
Firewall replacement	\$ 3,500
Network Detective Pro License	\$ 600
BS&A	\$ 8,000
Paylocity	\$ 8,000
Total	\$ 30,950

SEWER

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
PERSONNEL EXP	FNSES	Ī			
	SALARY (Payroll Spread)	201,923	181,715	185,396	221,912
	PART-TIME SEWER (Payroll Spread)	22,328	15,375	11,964	14,805
	OVERTIME (Payroll Spread)	10,750	13,000	14,077	15,000
	BENEFIT TIME COMPENSATION (Payroll Spread)	1,199	1,500	1,965	2,000
60-43-10-4110		44,949	45,572	40,000	47,402
60-43-10-4130	IMRF	18,523	16,509	15,289	21,659
	SOCIAL SECURITY	17,241	15,804	14,677	18,349
TOTAL PERSON		316,914	289,475	283,367	341,127
CONTRACTOR E	VDENCES	Ī			
	EQUIPMENT MAINTENANCE (S-50%)	2,148	1,107	1,107	1,000
		•	•	•	•
60-43-20-4310	• •	4,013	4,050	4,305	5,025 6,500
	PRINTING/BILLING (S-50%)	4,338	4,600	3,800	6,500
	FINANCIAL MANAGEMENT CONTRACT (S-25%)	16,373	14,660	17,170	17,500
	CONTRACT VEHICLE MAINTENANCE (12.5%)	-	-	-	5,000
	SEWER SYSTEM MAINTENANCE	18,890	25,000	4,445	25,000
	ENGINEERING SEWER	-	25,000	8,000	35,000
60-43-20-4330		2,130	500	1,678	5,000
60-43-40-4350		704,172	681,364	610,098	680,000
	COUNTY SURCHARGE	58,578	55,000	41,889	55,000
60-43-20-4213		9,873	9,500	10,810	10,000
	IT SUPPORT (12.5%)	-	1,800	2,187	1,500
	MANAGED GIS SERVICES (40%)	-	-	-	12,000
TOTAL CONTRAC	CTOR EXPENSES	820,514	822,581	705,489	858,525
OTHER EXPENSE	·s	Ī			
OTHER EXPENSE 60-43-60-4170	S UNIFORM ALLOWANCE	793	1,500	1,000	1,500
	UNIFORM ALLOWANCE	793 452	1,500 1,500	1,000 766	•
60-43-60-4170 60-43-60-4530			1,500 1,500	•	1,500 2,000 450
60-43-60-4170 60-43-60-4530 60-43-60-4531	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS	452 -	1,500 -	766 -	2,000 450
60-43-60-4170 60-43-60-4530 60-43-60-4531 60-43-40-4870	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%)	452 - 4,020	1,500 - 5,000	766 - 3,824	2,000 450 6,000
60-43-60-4170 60-43-60-4530 60-43-60-4531 60-43-40-4870 60-43-60-4810	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%)	452 - 4,020 4,823	1,500 - 5,000 4,000	766 - 3,824 3,500	2,000 450 6,000 5,800
60-43-60-4170 60-43-60-4530 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4680	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%)	452 - 4,020 4,823 29,611	1,500 - 5,000 4,000 26,041	766 - 3,824 3,500 83,259	2,000 450 6,000 5,800 26,041
60-43-60-4170 60-43-60-4530 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4812	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%)	452 - 4,020 4,823	1,500 - 5,000 4,000	766 - 3,824 3,500	2,000 450 6,000 5,800 26,041 8,000
60-43-60-4170 60-43-60-4530 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4880 60-43-60-4812 60-43-60-4820	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%)	452 - 4,020 4,823 29,611	1,500 - 5,000 4,000 26,041	766 - 3,824 3,500 83,259	2,000 450 6,000 5,800 26,041 8,000 13,750
60-43-60-4170 60-43-60-4530 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4812 60-43-60-4820 60-43-60-4930	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%)	452 - 4,020 4,823 29,611	1,500 - 5,000 4,000 26,041	766 - 3,824 3,500 83,259	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750
60-43-60-4170 60-43-60-4530 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4812 60-43-60-4820 60-43-60-4930 60-43-60-4931	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%)	452 - 4,020 4,823 29,611 6,477 - -	1,500 - 5,000 4,000 26,041 13,500 - -	766 - 3,824 3,500 83,259 6,654 - -	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750
60-43-60-4170 60-43-60-4530 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4812 60-43-60-4820 60-43-60-4930 60-43-60-4931 60-43-40-4950	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER	452 - 4,020 4,823 29,611 6,477 - - - 19,387	1,500 - 5,000 4,000 26,041 13,500 - - - 25,000	766 - 3,824 3,500 83,259 6,654 - - - 22,466	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000
60-43-60-4170 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4812 60-43-60-4812 60-43-60-4820 60-43-60-4930 60-43-60-4931 60-43-40-4950 60-43-40-4610	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER	452 - 4,020 4,823 29,611 6,477 - - - 19,387 11,199	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000
60-43-60-4170 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4812 60-43-60-4812 60-43-60-4820 60-43-60-4930 60-43-60-4931 60-43-40-4610 60-43-40-4660	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY	452 - 4,020 4,823 29,611 6,477 - - - 19,387 11,199 22,408	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500 30,000	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232 20,300	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000
60-43-60-4170 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4812 60-43-60-4820 60-43-60-4930 60-43-60-4931 60-43-40-4950 60-43-40-4610 60-43-40-4660 60-43-60-4420	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE	452 - 4,020 4,823 29,611 6,477 - - - 19,387 11,199	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000
60-43-60-4170 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4812 60-43-60-4812 60-43-60-4930 60-43-60-4931 60-43-40-4950 60-43-40-4610 60-43-40-4660 60-43-60-4420 60-43-60-4951	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS	452 - 4,020 4,823 29,611 6,477 - - 19,387 11,199 22,408 2,753	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500 30,000 3,083 -	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232 20,300 2,509	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000
60-43-60-4170 60-43-60-4531 60-43-60-4531 60-43-60-4810 60-43-60-4810 60-43-60-4812 60-43-60-4820 60-43-60-4931 60-43-40-4950 60-43-40-4610 60-43-40-4660 60-43-60-4420 60-43-60-4961 60-43-60-5010	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021	452 - 4,020 4,823 29,611 6,477 - - - 19,387 11,199 22,408	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500 30,000 3,083 - 23,830	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232 20,300 2,509 - 23,830	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000
60-43-60-4170 60-43-60-4531 60-43-60-4531 60-43-60-4810 60-43-60-4810 60-43-60-4812 60-43-60-4820 60-43-60-4931 60-43-40-4510 60-43-40-4610 60-43-60-4420 60-43-60-4961 60-43-60-5010 60-43-60-5205	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION	452 - 4,020 4,823 29,611 6,477 - - 19,387 11,199 22,408 2,753 - -	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500 30,000 3,083 - 23,830 51,600	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232 20,300 2,509 - 23,830 51,600	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000
60-43-60-4170 60-43-60-4531 60-43-60-4531 60-43-60-4810 60-43-60-4880 60-43-60-4812 60-43-60-4820 60-43-60-4931 60-43-40-4950 60-43-40-4660 60-43-60-4420 60-43-60-4961 60-43-60-5010 60-43-60-5205 60-43-60-5205	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION	452 - 4,020 4,823 29,611 6,477 - - 19,387 11,199 22,408 2,753 - - 35,000	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500 30,000 3,083 - 23,830 51,600 36,000	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232 20,300 2,509 - 23,830 51,600 36,000	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000
60-43-60-4170 60-43-60-4531 60-43-60-4531 60-43-60-4810 60-43-60-4810 60-43-60-4812 60-43-60-4820 60-43-60-4931 60-43-40-4610 60-43-40-4610 60-43-60-4420 60-43-60-5010 60-43-60-5205 60-43-60-5206 60-43-60-5206 60-43-60-3897	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION FLEET REPAIR FUND CONTRIBUTION	452 - 4,020 4,823 29,611 6,477 - - 19,387 11,199 22,408 2,753 - - 35,000 35,000	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500 30,000 3,083 - 23,830 51,600 36,000 35,000	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232 20,300 2,509 - 23,830 51,600 36,000 35,000	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000
60-43-60-4170 60-43-60-4531 60-43-60-4531 60-43-60-4810 60-43-60-4810 60-43-60-4812 60-43-60-4820 60-43-60-4931 60-43-40-4950 60-43-40-4610 60-43-60-4961 60-43-60-5010 60-43-60-5205 60-43-60-5206 60-43-60-5206 60-43-60-5203	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION INFORMATION TECH. FUND CONTRIBUTION	452 - 4,020 4,823 29,611 6,477 - - 19,387 11,199 22,408 2,753 - - 35,000	1,500 - 5,000 4,000 26,041 13,500 - - 25,000 7,500 30,000 3,083 - 23,830 51,600 36,000	766 - 3,824 3,500 83,259 6,654 - - 22,466 13,232 20,300 2,509 - 23,830 51,600 36,000 35,000 20,000	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000 10,000 - - -
60-43-60-4170 60-43-60-4531 60-43-60-4531 60-43-60-4810 60-43-60-4880 60-43-60-4812 60-43-60-4820 60-43-60-4931 60-43-40-4950 60-43-40-4610 60-43-60-4961 60-43-60-5010 60-43-60-5205 60-43-60-5205 60-43-60-5206 60-43-60-5203 60-43-60-5203 60-43-60-5201	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION FLEET REPAIR FUND CONTRIBUTION INFORMATION TECH. FUND CONTRIBUTION NEW EQUIPMENT	452 - 4,020 4,823 29,611 6,477 - - 19,387 11,199 22,408 2,753 - - 35,000 35,000	1,500 - 5,000 4,000 26,041 13,500 25,000 7,500 30,000 3,083 - 23,830 51,600 36,000 35,000 20,000	766 - 3,824 3,500 83,259 6,654 22,466 13,232 20,300 2,509 - 23,830 51,600 36,000 35,000 20,000 -	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000 10,000 35,000 - - - - 6,000
60-43-60-4170 60-43-60-4531 60-43-40-4870 60-43-60-4810 60-43-60-4880 60-43-60-4812 60-43-60-4820 60-43-60-4931 60-43-60-4931 60-43-40-4610 60-43-40-4610 60-43-60-5010 60-43-60-5205 60-43-60-5205 60-43-60-5205 60-43-60-5203 60-43-60-5201 60-43-60-5201 60-43-60-5201 60-43-60-5201	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION FLEET REPAIR FUND CONTRIBUTION INFORMATION TECH. FUND CONTRIBUTION NEW EQUIPMENT SOFTWARE LICENSES (25%)	452 - 4,020 4,823 29,611 6,477 - - 19,387 11,199 22,408 2,753 - - 35,000 35,000 15,000	1,500 - 5,000 4,000 26,041 13,500 25,000 7,500 30,000 3,083 - 23,830 51,600 36,000 35,000 20,000 - 13,573	766 - 3,824 3,500 83,259 6,654 22,466 13,232 20,300 2,509 - 23,830 51,600 36,000 35,000 20,000 - 12,000	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000 - - - 6,000 12,500
60-43-60-4170 60-43-60-4531 60-43-60-4531 60-43-60-4810 60-43-60-4880 60-43-60-4812 60-43-60-4820 60-43-60-4931 60-43-40-4950 60-43-40-4610 60-43-60-4961 60-43-60-5010 60-43-60-5205 60-43-60-5205 60-43-60-5206 60-43-60-5203 60-43-60-5203 60-43-60-5201	UNIFORM ALLOWANCE TRAINING/TRAVEL MEMBERSHIPS METERS/PARTS & REPAIRS (S-50%) OFFICE SUPPLIES (S-15%) LIABILITY INSURANCE (S-11%) CREDIT CARD FEES (S-45%) AUTOMOTIVE FUEL/OIL (12.5%) VEHICLE SUPPLIES (12.5%) MECHANIC TOOLS (12.5%) SUPPLIES-SEWER NATURAL GAS - SEWER ELECTRICITY TELEPHONE GENERATOR LOAD BANK TESTING & REPAIRS DEBT SERVICE - 2015, 2016, 2021 FLEET REPLACEMENT CONTRIBUTION EQUIPMENT REPLACEMENT CONTRIBUTION FLEET REPAIR FUND CONTRIBUTION INFORMATION TECH. FUND CONTRIBUTION NEW EQUIPMENT SOFTWARE LICENSES (25%)	452 - 4,020 4,823 29,611 6,477 - - 19,387 11,199 22,408 2,753 - - 35,000 35,000	1,500 - 5,000 4,000 26,041 13,500 25,000 7,500 30,000 3,083 - 23,830 51,600 36,000 35,000 20,000	766 - 3,824 3,500 83,259 6,654 22,466 13,232 20,300 2,509 - 23,830 51,600 36,000 35,000 20,000 -	2,000 450 6,000 5,800 26,041 8,000 13,750 8,750 125 30,000 13,000 30,000 3,000 10,000 35,000 - - - - 6,000

PERSONNEL EXPENSES

SALARY-SEWER 60-43-10-4013

Portion of salaries based on time spent on Sewer activities. Salary for Village Mechanic. Payroll spread 75% Fleet, 12.5% water, 12.5% sewer.

PART-TIME SEWER 60-43-10-4015

Spread (25%) of expenses for two, 1,000 hour part-time positions, plus seasonal summer positions.

OVERTIME 60-43-10-4014

Overtime is spread to Streets/Water/Sewer/Metra/Mansion based on the percentage of public works salaries in each fund. Costs for overtime are broken down below.

On call compensation \$ 6,000 On call pay \$16,000 Other overtime \$31,000

SICK TIME COMPENSATION 60-43-10-4017

Cost for payment of sick time compensation program based on the percentage of salaries in this fund.

HEALTH & LIFE INSURANCE 60-43-10-4110

Health, life and dental insurance costs minus employee contributions. Assumes same cost spread as salaries and cost per new health insurance agreement.

IMRF 60-43-10-4130

The value is calculated at the Village's projected contribution rate for eligible payroll in this fund.

SOCIAL SECURITY 60-43-10-4140

Social Security and Medicare contributions for Sewer employees.

CONTRACTOR EXPENSES

METER READING SERVICES 60-43-20-4231 (SPREAD)

50% of meter reading support (\$860).

AUDIT 60-43-20-4310 (SPREAD)

Portion of contractual costs for annual Village audit. 15% of expenses.

PRINTING/BILLING 60-43-60-4440 (SPREAD)

7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -	Postage	\$3,585	(50%)	(2,825 bi-monthly	bills '
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Contract Billing/Billing Stock \$1,500 (50%)

\$5,085

FINANCIAL MANAGEMENT CONTRACT (SPREAD) 60-42-20-4311

Costs for financial management support contract. 25% of total cost.

CONTRACT VEHICLE MAINTENANCE 60-42-20-4230

Contractor costs (12.5%) for vehicle maintenance.

SEWER SYSTEM MAINTENANCE 60-43-40-4250

Contract repairs for lift stations, and sewer mains. Includes \$9,380 for preventative maintenance of the lift station pumps.

ENGINEERING SEWER 60-43-20-4320

Miscellaneous engineering services for sewer work.

LEGAL FEES 60-43-20-4330

Legal expenses related to the sewer system.

COUNTY SEWER 60-43-40-4350

Contract with Fox Lake and County for wastewater treatment. Prairie Trail being in the Lake's Region Sanitary District.

COUNTY SURCHARGE 60-43-40-4351

Expenses from County sewer surcharge fee collected through the Village's water/sewer utility bills on residential and commercial buildings.

MOWING 60-43-20-4213

Contractual costs for mowing sanitary sewer lift stations. \$280 per rotation and assumes 30 rotations.

IT SUPPORT 60-42-20-5215

Assumes (12.5%) 80 per hour at 150 hours per year per the Village current agreement for these services.

MANAGED GIS SERVICES 60-43-20-5216

Assumes 40%, split with Admin and water.

OTHER EXPENSES

UNIFORM ALLOWANCE 60-43-60-4170 (SPREAD)

Cost split between Water (25%), Sewer (25%) and Streets (50%).

TRAINING/TRAVEL 60-43-60-4530

Various training costs for Water activities such as training materials, classes and workshops.

MEMBERSHIPS 60-43-60-4531

Cost for annual memberships.

IRWA \$321 AWWA \$372 APWA \$93 NSWWA \$100

METERS/PARTS & REPAIRS 60-43-40-4870

Cost for new meters and replacement meters (split with Water). Replacement meters are typically the responsibility of the Village. New meters are reimbursed.

SUPPLIES-SEWER 60-43-40-4950

Supplies for lift stations, sewer mains and SCADA system.

NATURAL GAS - SEWER 60-43-40-4610

Natural gas for lift stations.

ELECTRIC-SEWER 60-43-40-4660

Electricity for sewer lift stations.

TELEPHONE 60-43-60-4420

Well house phone costs and cellphone costs for water related personnel.

GENERATOR LOAD BANK TESTING & REPAIRS 60-43-60-4961

50/50 split with water. Cost for the repairs and testing of the generators.

LIABILITY INSURANCE 60-43-60-4680

Portion of costs for liability and workman's compensation insurance related to Sewer.

OFFICE SUPPLIES 60-43-60-4810

15% of office supplies. Remaining costs in Administration (35%), Police (35%) and Water (15%).

2021 DEBT SERVICE 60-42-60-5019

IEPA loan for the land bridge.

CREDIT CARD FEES 60-43-60-4812

45% of costs. Remaining in Water (45%) and Administration (10%).

AUTOMOTIVE FUEL/OIL 60-43-60-4820

12.5% of costs for fuel and oil.

SUPPLIES-VEHICLE 60-43-60-4930

12.5% of the costs for parts for fleet maintenance.

MECHANIC TOOLS 60-43-60-4931

12.5% of costs for any tools that the Mechanic may need

NEW EQUIPMENT 60-42-60-5201

Cost of enclosed trailer, 50/50 split with water.

SOFTWARE LICENSES 01-10-60-5213

75% Admin, 25% Water, 25% Sewer

Software Licenses

Anti-Spam	\$ 800
Off-Site Back-up	\$ 3,100
Website fee	\$ 2,400
Remote Access	\$ 1,350
Laserfiche	\$ 1,300
SeeClickFix	\$ 7,800
Adobe Creative Suite	\$ 1,000
EDR	\$ 3,500
Exchange Online Plan for GCC	\$ 4,000
Firewall replacement	\$ 3,500
Network Detective Pro License	\$ 600
BS&A	\$ 8,000
Paylocity	\$ 8,000
Total	\$ 45,350.

METRA FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE					
02-00-00-3809	VERIZON LEASE PAYMENTS	33,354	33,888	33,725	33,725
02-00-00-3840	METRA PARKING FEES	7,803	8,750	10,060	9,000
02-00-00-3810	INTEREST EARNED	240	500	, 75	100
TOTAL REVENUE		41,397	43,138	43,860	42,825
PERSONNEL EXPE	VSES				
02-00-10-4013	SALARY (Payroll Spread)	11,651	14,319	9,570	10,141
02-00-10-4014	OVERTIME (Payroll Spread)	854	1,000	876	1,000
02-00-10-4017	BENEFIT TIME COMPENSATION (Payroll Spread)	135	200	52	200
02-00-10-4110	HEALTH & LIFE INSURANCE (Payroll Spread)	2,920	2,867	2,622	2,478
02-00-10-4130	IMRF	1,079	1,270	866	990
02-00-10-4140	SOCIAL SECURITY	876	1,123	678	776
TOTAL PERSONNE	L EXPENSES	17,516	20,779	14,664	15,584
CONTRACTUAL EX					
02-00-20-4211	OPERATING EXPENSE	682	1,500	327	1,500
02-00-20-4213	MOWING	1,193	1,200	2,969	3,000
TOTAL CONTRACT	UAL	1,875	2,700	3,296	4,500
OTHER EXPENSES					
02-00-60-4680	LIABILITY INSURANCE (S-2.2%)	5,205	5,208	5,208	5,208
02-00-30-4660	ELECTRICITY	1,800	2,500	136	2,500
02-00-30-4210	MAINTENANCE-BUILDING	2,199	4,000	2,592	4,000
TOTAL OTHER EXP	ENDITURES	9,204	11,708	7,936	11,708
TOTAL EXPENSES		28,595	35,187	25,896	31,792

VERIZON LEASE PAYMENTS 02-00-00-3809

This revenue is derived from the lease payments from Verizon for use of the Water Tower. Annual lease is \$33,888.

METRA PARKING FEES 02-00-00-3840

This revenue is derived from commuters parking in the Metra lots. Includes revenue projections for daily parking fee of \$1.75 per day and \$34 per month parking pass. Assumes 5,000 cars parked per year.

INTEREST EARNED 02-00-00-6840

This is revenue from interest.

EXPENSES

PERSONNEL EXPENSES

SALARY 02-00-10-4013

Portion of salaries based on time spent on Metra activities.

OVERTIME 02-00-10-4014

Overtime is spread to Streets/Water/Sewer/Metra/Mansion based on the percentage of public works salaries in each fund. Costs for overtime are broken down below.

On call compensation \$5,200
On call pay \$15,750
Other overtime \$10,000

SICK TIME COMPENSATION 02-00-10-4017

Cost for payment of sick time compensation program based on the percentage of salaries in this fund.

HEALTH & LIFE INSURANCE 02-00-10-4110

Health, life and dental insurance costs minus employee contributions. Assumes same cost spread as salaries and cost per new health insurance agreement.

IMRF-EMPLOYER CONTRIBUTION 02-00-10-4130

The proposed value is calculated at the Village's projected contribution rate for eligible payroll in this fund

SOCIAL SECURITY 02-00-10-4140

Contribution to Retirement Fund for Social Security and Medicare costs related to eligible payroll in this fund.

CONTRACTUAL EXPENSES

OPERATING EXPENSE 02-00-20-4211

Contract expenses as needed for repairs.

MOWING 02-00-20-4213

Contract expense for mowing at Metra Station and assumes 30 rotations.

OTHER EXPENSES

LIABILITY INSURANCE 02-00-60-4680 (SPREAD)

Cost for Metra's portion of liability/workman's compensation insurance.

ELECTRIC 02-00-30-4660

Electricity costs for Metra Station and parking lot.

MAINTENANCE-BUILDING 02-00-30-4210

Contract repairs, as needed, for the Metra facility.

MANSION FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE					
08-00-00-3820	RENT-MANSION	46,849	75,000	4,931	50,000
08-00-30-3890	OTHER REVENUE	-	-	31,400	31,400
TOTAL MANSION	REVENUE	46,849	75,000	36,331	81,400
PERSONNEL EXPE	INSES	Ī			
08-00-10-4013	SALARY (Payroll Spread)	25,213	12,428	15,000	4,014
08-00-10-4014	OVERTIME (Payroll Spread)	1,716	500	1,300	200
08-00-10-4017	BENEFIT TIME COMPENSATION (Payroll Spread)	307	50	103	50
08-00-10-4110	HEALTH & LIFE INSURANCE (Payroll Spread)	5,527	2,867	5,290	925
08-00-10-4130	IMRF	2,324	1,029	1,758	380
08-00-10-4140	SOCIAL SECURITY	1,884	910	1,400	298
TOTAL PERSONN	EL EXPENSES	36,972	17,784	24,851	5,867
CONTRACTOR EX					
08-00-00-4212	PREVENTATIVE MAINTENANCE-MANSION	7,453	11,000	19,877	16,000
08-00-00-4210	MAINTENANCE & REPAIRS -MANSION	25,746	7,000	10,873	-
08-00-00-4211	MAINTENANCE-GROUNDS	1,366	4,000	-	-
08-00-20-4213	MOWING	5,398		-	
TOTAL CONTRAC	TOR EXPENSES	39,962	22,000	30,750	16,000
OTHER EXPENSES		Ī			
08-00-60-4680	LIABILITY INSURANCE (S-2.2%)	5,208	5,208	5,208	5,208
08-00-00-4610	NATURAL GAS	19,285	20,000	23,400	23,400
08-00-00-4660	ELECTRICITY	17,145	10,000	8,000	8,000
08-00-00-4910	SUPPLIES-MANSION	911	5,000	119	-
08-00-00-4443	MARKETING	710	710	710	710
08-00-00-5200	NEW EQUIPMENT	-	-	-	-
08-00-00-8063	TENT REPAIRS AND MAINTENANCE	6,845	11,000	11,000	-
TOTAL OPERATIN	IG EXPENSES	50,104	51,918	48,437	37,318
TOTAL EXPENSES		127,038	91,702	104,039	59,185

RENT-MANSION 08-00-30-3820

For 2023/24, \$50,000 rental payment, plus 3% of all sales in excess of \$1,00,000.

OTHER REVENUE 08-00-30-3890

Reimbursement from contractor for gas and/or electricity costs.

EXPENSES

PERSONNEL EXPENSES

SALARY 08-00-10-4013

Portion of salaries based on time spent on Mansion activities. Reduced in 2023/24 to reflect new agreement.

OVERTIME 08-00-10-4014

Overtime is spread to Streets/Water/Sewer/Metra/Mansion based on the percentage of public works salaries in each fund. Costs for overtime are broken down below. Reduced in 2023/24 to reflect new agreement.

SICK TIME COMPENSATION 08-00-10-4017

Cost for payment of sick time compensation program based on the percentage of salaries in this fund. Reduced in 2023/24 to reflect new agreement.

HEALTH & LIFE INSURANCE 08-00-10-4110

Health, life and dental insurance costs minus employee contributions. Assumes same cost spread as salaries and cost per new health insurance agreement. Reduced in 2023/24 to reflect new agreement.

IMRF 08-00-10-4130

The proposed value is calculated at the Village's projected contribution rate. Reduced in 2023/24 to reflect new agreement.

SOCIAL SECURITY 08-00-10-4140

Contribution to Retirement Fund for Social Security and Medicare costs related to salaries in this fund. Reduced in 2023/24 to reflect new agreement.

CONTRACTOR EXPENSES

PREVENTATIVE MAINTENANCE-MANSION 08-00-00-4210

\$2,400
\$700
\$1,700
\$600
\$ 1,600
\$ 3,500
\$500
\$11,000

MAINTENANCE AND REPAIRS-MANSION

Contractual costs for all other mansion repairs and maintenance.

MAINTENANCE-MANSION GROUNDS 08-00-00-4211

Contractual services for landscaping improvements.

OTHER EXPENSES

LIABILITY INSURANCE 08-00-00-4680

Cost for the Mansion's portion of liability/workman's compensation insurance.

NATURAL GAS 08-00-00-4610

Costs paid by contractor in 2023/24

ELECTRIC 08-00-00-4660

Costs paid by contractor in 2023/24

MARKETING 08-00-00-4443

Costs for LED sign data plan.

GARBAGE FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE					
68-00-68-3510	REFUSE/RECYCLING COLLECTIONS	645,189	672,244	670,000	687,369
68-00-00-3800	MISCELLANEOUS REVENUE	7,708	2,000	8,826	7,000
68-00-00-3810	INTEREST EARNED	12,476	5,000	3,536	5,000
68-00-00-4450	SWALCO FEES	-	-	-	3,600
TOTAL REVENUE		665,373	679,244	682,361	702,969
EXPENSES					
68-00-60-4450	SWALCO FEE	4,068	3,746	3,746	3,800
68-00-20-4470	WASTE MANAGEMENT FEES	620,152	616,977	649,640	644,741
68-00-20-4240	ROAD RESURFACING TRANSFER TO GC	-	-	22,500	22,500
68-00-20-4241	TRANSFER TO GENERAL FUND			6,000	6,000
TOTAL EXPENSES		624,219	620,723	681,886	677,041

MOTOR FUEL TAX FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE					
75-00-00-3340	MOTOR FUEL TAX	370,130	201,043	428,542	210,303
75-00-00-3010	MISCELLANEOUS REVENUE	192,002	-	-	-
75-00-00-3810	INTEREST EARNED	535	1,000	13,681	8,000
TOTAL MFT REVE	NUE	562,668	202,043	442,223	218,303
EXPENSES					
75-00-00-4320	DESIGN & CONSTRUCTION ENGINEERING	15,000	50,000	45,000	25,000
75-00-00-4240	ROAD RESURFACING	-	689,755	610,849	-
75-00-00-4241	PAVEMENT MANAGEMENT	-	-	-	8,000
75-00-40-4260	SALT	-	-	-	87,000
TOTAL EXPENSES		15,000	739,755	655,849	120,000

MOTOR FUEL TAX 75-00-00-3340

Revenue per Illinois Municipal League estimates.

EXPENSES

DESIGN AND CONSTRUCTION ENGINEERING 75-00-00-4320

2023/24, costs for construction engineering.

ROAD RESURFACING 75-00-00-4240

Costs for 2023/24 road resurfacing program as approved by Village Board.

PAVEMENT MANAGEMENT 75-00-00-424

Any additional costs need for the CMAP grant that the Village of Lake Villa Received.

SPECIAL EVENTS FUND

		ACTUAL	BUDGET	EST. YR. END	BUDGET
		2021/2022	2022/2023	2022/2023	2023/2024
DEVENUE		Ī			
REVENUE 81-00-30-1144	GENERAL FUND CONTRIBUTIONS	_	25,000	28,750	40,000
81-00-30-1144	CELEBRATION OF FALL DONATIONS	12 027	,	,	,
		12,037	18,000	19,700	25,000
81-00-30-3414	OTHER EVENT REVENUE	3,051	5,000	1,522	1,750
81-00-00-3019	TRANSFERS FROM OTHER FUNDS	-	0	3,428	0
TOTAL REVENUE		15,088	48,000	53,399	66,750
EVENIOS		Ī			
EXPENSES					
81-00-60-8030	FIREWORKS	19,000	19,000	19,000	19,000
81-00-00-4368	CELEBRATION OF FALL	-	23,000	36,976	25,000
81-00-60-4441	PUBLIC RELATIONS	6,004	1,000	-	1,000
81-00-00-4367	PAGEANT	-	1,500	3,277	1,500
81-00-00-4365	INTERGOVENMENTAL CONTRIBUTION	5,000	5,000	5,000	5,000
81-00-00-4366	OTHER EVENT EXPENSES	9,003	11,000	4,000	10,000
TOTAL EXPENSES		39,008	60,500	68,252	61,500

GENERAL FUND CONTRIBUTION

Transfer from General fund to cover the cost of Special Events.

CELEBRATION OF FALL

Assumes \$25,000 in donations.

OTHER EVENT REVENUE

Revenue from other events, not anticipated at this time.

EXPENSES

FIREWORKS 81-00-60-8030

Assumes \$19,000 in expenses for fireworks and other event expenses for supplies.

CELEBRATION OF FALL 81-00-00-4368

Costs for annual Celebration of Fall event.

PUBLIC RELATIONS 81-00-60-4441

Costs for advertising special events.

PAGEANT 81-00-00-4367

Costs for the Miss Lake Villa Pageant.

CONCERT SERIES CONTRIBUTION 81-00-00-4365

Contribution to members of the intergovernmental agreement for Concert Series.

OTHER EVENT EXPENSES 81-00-00-4366

Costs for supplies, and other expenses community events such as Easter Egg Hunt, and Parades.

GENERAL CAPITAL FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE					
		24 210	40.025	F2 2F0	FO 742
90-00-00-3030	SALES TAX (S-5%)	34,210	48,035	52,250	59,742
90-00-00-3040	INCOME TAX (S-5%) LOCAL USE TAX (S-5%)	48,469	54,719	55,221	61,187
90-00-00-3070		18,793	17,549	15,587	18,016
90-00-00-3080	VIDEO GAMING WATER TOWER RENT	188,074	160,000	198,580	205,000
90-00-00-3820		35,625	36,660	37,210	37,000
90-00-00-3360	FEDERAL GRANTS	61,293	1 000	- 	-
90-00-30-3896	CARES ACT/ARPA REVENUE	583,327	1,000	583,327	-
90-00-30-3890	OTHER REVENUE	14,062	100	-	-
90-00-30-3893	SURPLUS SALES PROCEEDS	60,178	-	16,157	-
90-00-00-3990	TRANSFER FROM GENERAL FUND	333,159	-	-	-
90-00-00-3019	TRANSFERS FROM OTHER FUNDS	1 277 100	219.062	410,013	22,500
TOTAL REVENUE		1,377,190	318,063	1,368,344	403,445
_					
EXPENSES	DOWNTOWN CIDEWALK	120 242			
90-00-00-8072	DOWNTOWN SIDEWALK	120,240	-	-	-
90-00-00-8116	PUBLIC WORKS PAVING (50%)	39,340	-	-	-
90-00-00-8093	ENTRYWAY/PARK SIGNS	10,138	-	-	-
90-00-00-8125	DESIGN ENG. SIDEWALK: GRAND AVENUE	130	135,000	-	135,000
90-00-00-8126	DESIGN ENG. SIDEWALK: GRASS LAKE ROAD	8,200	22,000	22,000	-
90-00-00-8128	SERVICE REQUEST SOFTWARE	7,575	-	-	-
90-00-00-8114	COMPREHENSIVE PLAN	24,625	4,302	5,000	-
90-00-00-8117	SALT STORAGE	-	375,000	313,049	-
90-00-00-8124	ROAD RESURFACING RESERVE	-	300,000	-	-
90-00-00-8092	REPAIRS & IMPROVEMENTS	64,621	50,000	50,000	50,000
90-00-00-8007	ECONOMIC INCENTIVE	25,000	20,000	10,000	25,000
90-00-00-8095	OFFICE FURNITURE	29,987	-	-	-
90-00-00-8127	SIDEWALK REPLACEMENTS	41,232	-	-	-
90-00-00-8119	COVID EXPENSES	4,960	-		
90-00-00-8129	RETAIL RECRUITMENT	24,000	25,000	10,000	10,000
90-00-00-8130	POLICE RECORDS & EVIDENCE UPGRADES	-	11,029	9,676	-
90-00-00-8131	LOCAL SHARE STATE/COUNTY PROJECTS	5,227	32,200	-	32,200
90-00-00-8132	GRANT APPLICATIONS	8,285	7,500	-	-
90-00-00-8133	LEHMANN PARK - OSLAD	-	306,901	-	-
90-00-00-8134	REBUILD ILLINOIS GRANT (FIRE STATION ONE)	-	518,847	-	-
90-00-00-8135	QUIET ZONE IMPROVEMENTS (GRASS LAKE RD)	-	16,500	-	18,500
90-00-00-8147	SEALCOATING/STRIPING PD/HALL PARKING LOT	-	5,000	6,402	-
90-00-00-8148	ROAD RESURFACING WINDDANCE SUBDIVISION	-	250,000	185,585	-
90-00-00-8089	BUILDING REPAIRS	23,357	42,000	33,440	50,000
90-00-00-8149	FLEET VEHICLES	-	166,717	122,000	310,000
90-00-00-8150	INFORMATION TECHNOLOGY	-		-	40,000
90-00-00-8151	DESIGN STORM SEWER IMPROVEMENTS	-	-	-	85,000
90-00-00-8152	CEDAR AVE CROSSWALK	-	-	-	36,000
90-00-00-8153	BS&A SOFTWARE HR MODULES	-	-	-	45,435
90-00-00-8154	CAPITAL EQUIPMENT	-	-	-	22,500
90-00-00-8155	STRATEGIC PLANNING	-	-	-	18,000
90-00-00-8156	GRASS LAKE ROAD PEDESTRIAN PATH				185,000
90-00-00-8157	PLANNING STUDIES/CONTINGENCY				75,000
90-00-00-8158	REHABILITATION AND PAINT TOWER A	-	-	-	250,000
90-00-00-8139	WATER METER PROGRAM TRANSFER	-			250,000
TOTAL EXPENSES		436,916	2,287,996	767,153	1,637,635

SALES TAX 90-00-00-3030

First 95% of Sales Tax generated is pledged towards the General Operating Fund. Revenue in excess of the budget is dedicated towards the General Capital Fund.

STATE INCOME TAX 90-00-00-3040

First 95% of Income Tax generated is pledged towards the General Operating Fund. Revenue in excess of the budget is dedicated towards the General Capital Fund.

LOCAL USE TAX 90-00-00-3070

First 95% of Local Use Tax generated is pledged towards the General Operating Fund. Revenue in excess of the budget is dedicated towards the General Capital Fund.

VIDEO GAMING TAX 01-00-10-3080

The Village receives 5% of the net terminal income from all licensed video gaming terminals located in the Village. This revenue is collected by and distributed to the Village from the Illinois Department of Revenue on a monthly basis. Assumes 66 gaming machines.

RENT-TOWER 90-00-00-3820

Revenue from T-Mobile rent of the water tower for antennas. Per agreement, fee increases by 3% annually.

OTHER REVENUE 90-00-30-3890

Unanticipated General Fund Revenue.

EXPENSES

DESIGN & ENGINEERING GRAND AVE SIDEWALK 90-00-00-8125

Cost for design and engineering for a sidewalk on Grand Avenue.

REPAIRS & IMPROVEMENTS 90-00-00-8092

Unanticipated costs for capital improvements

ECONOMIC INCENTIVE 90-00-00-8007

Cost for the current year's economic incentive program.

LOCAL SHARE STATE/COUNTY PROJECTS 90-00-00-8131

Costs for the Village's local share contribution for projects that require a local share. 2023/24 – local share of \$32,200 for Grand Avenue from Cleveland to Central, IDOT Project.

QUIET ZONE IMPROVEMENTS 90-00-00-8135

Costs to make improvements to the Grass Lake Road median to maintain the existing railroad quite zone. Multi-jurisdictions involved in these improvements.

BUILDING REPAIRS 90-00-00-8089

Costs for various building repairs.

FLFFT VFHICLES

Cost to purchase a 5-ton dump truck with a hook lift system and required accessories.

INFORMATION TECHNOLOGY

Costs for various information system upgrades and implementation. <u>Will include itemized list at time of budget workshop.</u>

DESIGN STORM SEWER IMPROVEMENTS

Cost for a master storm water management drainage and hydraulic study (\$35,000) along with design and engineering cost for storm water pond improvement at Steven Sherwood Park (\$50,000).

CEDAR AVE CROSSWALK

Costs for installation of crosswalk connection a Village parking lot to the north side of Cedar Ave in the Central Business District.

BS&A SOFTWARE HR MODULES

Cost to purchase human resources, timesheets and payroll modules from BS&A, the Village's ERP software provider.

CAPITAL EQUIPMENT

Tiller \$7,500 14' Trailer \$15,000

REDEVELOPMENT PLANNING & DESIGN SERVICES

Costs for Community engagement, planning, and marketing services relative to redevelopment sites in the Central Business District.

STRATEGIC PLANNING

Costs for consulting services to facilitate strategic planning for the Village of Lake Villa with Village staff, the Village Board and residents.

GRASS LAKE ROAD PEDESTRIAN PATH

The construction phase of the pedestrian path proposed at Grass Lake Rd at Painted Lakes Blvd to the Lake Villa Township Baseball Complex.

PLANNING STUDIES/CONTINGENCY

This would be roughly a ten percent contingency for capital related projects, or cost overages for projects that the Village Board may wish to complete during the fiscal year.

WATER & SEWER CAPITAL FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR END 2022/2023	BUDGET 2023/2024
REVENUE					
91-00-00-3580	WATER CONNECTION FEES	67,510	68,585	5,615	8,600
91-00-00-3590	SEWER CONNECTION FEES	77,876	78,426	2,750	4,400
91-00-00-3890	OTHER REVENUE	-	100	-	-
91-00-00-3892	IEPA GRAND AVE WATERMAIN RELOCATION REVENUE		656,735	697,072	-
91-00-00-3893	IEPA GRAND AVE SANITARY SEWER REHABILITATION		431,142	511,502	-
91-00-00-3894	GRAND AVE. UTILITY RELOCATION DESIGN ENG.		150,000	-	-
91-00-30-3893	SURPLUS SALES PROCEEDS		-	-	-
91-00-00-3960	TRANSFER FROM W/S FUND	350,334	-	189,979	-
91-00-00-3019	TRANSFERS FROM OTHER FUNDS			811,478	250,000
TOTAL REVENUE		495,720	1,384,988	2,218,396	263,000
EXPENSES					
91-00-00-8099	WELL HOUSE CHEMICAL CONVERSION	18,500	30,000	8,477	-
91-00-00-8109	WELL 5 & 11 SCADA UPGRADES	21,000	-	-	-
91-00-00-8110	GRAND AVE. UTILITY RELOCATION DESIGN ENG.	38,971	32,237	54,871	-
91-00-00-8145	LAKE COUNTY CONNECTION FEE PAYMENTS	-	10,000	-	-
91-00-00-8098	SANITARY SEWER MANHOLE REPAIRS	8,515	40,000	-	80,000
91-00-00-8107	PUBLIC WORKS PAVING (50%)	39,340	-	-	-
91-00-00-8108	WATER SYSTEM HYDRAULIC STUDY	60,000	-	-	-
91-00-00-8120	WATER SYSTEM LEAK SURVEY	12,334	-	-	-
91-00-00-8121	WATER TOWER INSPECTIONS	6,400	-	-	-
91-00-00-8122	MILWAUKEE AVE. INSERTION VALVE	-	10,000	-	15,000
91-00-00-8136	LIFT STATION 4 GENERATOR REPLACEMENT	-	20,000	19,622	-
91-00-00-8137	GENERATOR LOAD BANK TESTING	-	9,000	-	-
91-00-00-8138	DESIGN ENGINEERING FOR WATER TOWER A	-	30,000		35,000
91-00-00-8139	WATER METER PROGRAM	-	250,000	-	500,000
91-00-00-8140	DESIGN & ENGINEERING WELL 7 BOOSTER STATION	-	40,000	24,033	35,000
91-00-00-8159	WELL 7 BOOSTER STATION CONSTRUCTION				550,000
91-00-00-8141	DESIGN & ENG. GRAND AVE WATER MAIN/INTERCONNECTION	-	110,000	-	135,000
91-00-00-8142	CEDAR LAKE RD INSERTION VALVE	-	15,000	-	20,000
91-00-00-8143	IEPA GRAND AVE WATERMAIN RELOCATION	-	656,735	511,502	-
91-00-00-8144	IEPA GRAND AVE SANITARY SEWER REHABILITATION	-	431,142	263,725	-
91-00-00-8025	PUMP REPAIR/REPLACEMENTS	-	40,000	-	50,000
91-00-00-8160	DESIGN ENGINEERING BURNETT/WALDEN WATER MAIN	-	-	-	84,000
91-00-00-8096	REPAIRS & IMPROVEMENTS	73,055	50,000	82,818	50,000
91-00-00-8161	SCADA SYSTEM IMPROVEMENTS	-	-	-	16,000
TOTAL EXPENSES		278,115	1,774,114	965,047	1,570,000

CONNECTION CHARGES

Water and Sewer connection charges.

OTHER REVENUE

Unanticipated revenue

EXPENSES

SANITARY SEWER MANHOLE REPAIRS 91-00-00-8098

Cost to repair various sanitary sewer manholes that are leaking.

REPAIRS & IMPROVEMENTS 91-00-00-8096

Costs for unanticipated repairs to the water & sewer system.

MILWAUKEE AVE. INSERTION VALVE

Costs to install insertion valve to allow isolation of 103 N. Milwaukee Ave. from water system for maintenance. It currently takes 3 to 4 valves to shut down the 6-inch service feed to this property affecting Pleviak School. Location would be on private property due to utilities. Village would excavate and back fill. Contractor would install the insertion valve.

DESIGN & ENGINEERING FOR WATER TOWER A

Costs for the design and engineering for water tower A. Antenna removal coordination and bidding and contracting documentation.

WATER METER EXCHANGE PROGRAM

Replacing approx. 2,600 water meters within the Village (using ARPA Funds). \$250,000 from FY22/23 and \$250,000 from FY23/24.

DESIGN & ENGINEERING WELL 7 BOOSTER STATION

Costs for old well #7 building for transient's elimination.

DESIGN & ENGINEERING LINDENHURST INTERCONNECTION

Costs for design and engineering for the Lindenhurst interconnection on the north side of Grand Ave.

CEDAR LAKE ROAD. INSERTION VALVE

Costs to install insertion valve Cedar Lake Rd and Winddance Dr.

DESIGN ENGINEERING BURNETT

Design Engineering for water main replacement at Burnett Ave, Wesley, Walden, Laurie Ct.

SEWER CAMERA REPLACEMENT

To replace 18-year-old sewer televising equipment.

SCADA SYSTEM IMPROVEMENTS

Upgrades to Scada computer system licenses and programing.

PARKS CAPITAL FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE					
97-00-30-3810	INTEREST INCOME	-	-	-	-
97-00-30-3830	IMPACT FEES	-	-	-	3,000
TOTAL REVENUE		-	-	-	3,000
EXPENSES					
97-00-00-8085	LEHMANN PARK REPAIRS	8,188	-	-	-
97-00-00-8101	PARK IMPROVEMENTS	32,394	84,200	20,250	75,000
TOTAL EXPENSES		40,582	84,200	20,250	75,000

PARKS IMPROVEMENTS 97-00-00-8101

Steven Sherwood Park Pavilion floor repairs	\$50,000
Bike Racks	\$5,000
Cedar Crossing 2 tot lot playground repairs	\$15,000
Cedar Crossing Pollinator Garden Grant Commitment	\$5,000

DOWNTOWN TIF FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE					
98-00-10-3010	TIF REVENUE	221,003	255,000	253,936	255,000
98-00-00-3810	INTEREST	99	400	12,864	5,000
TOTAL REVENUE		221,101	255,400	266,800	260,000
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EXPENSES					
98-00-00-8065	PURCHASE OF PROPERTY	-	1,000	-	450,000
98-00-20-4330	TIF LEGAL FEES	-	5,000	1,348	10,000
98-00-98-4500	GENERAL FUND PAY BACK	-	5,000	-	
98-00-98-4501	NORLAND 1ST REDEVELOPMENT	13,112	9,000	8,179	9,000
98-00-98-5202	30 CEDAR AVENUE	-	4,500	4,089	5,000
98-00-98-9503	89 CEDAR AVENUE	-	3,000	3,471	3,500
98-00-60-4810	POSTAGE	-	50	-	50
98-00-00-4800	ADMINISTRATIVE EXPENSES	-	2,000	-	55,000
98-00-00-4801	ELIGIBLE PROJECT EXPENSES	135,994	20,000	10,500	71,000
TOTAL EXPENSES		149,107	49,550	27,587	603,550

TIF REVENUE 98-00-10-3010

Assumes funds from the incremental increase in property taxes within the Village's downtown TIF district.

INTEREST 98-00-00-3810

Funds from interest from the TIF Fund.

EXPENSES

PURSHASE OF PROPERTY 98-00-00-8065

Costs to purchase property within the TIF District.

TIF LEGAL EXPENSES 98-00-20-4330

Legal expenses associated with the TIF District

GENERAL FUND PAYBACK 98-00-98-4500

Costs to repay the General Fund for the upfront contribution for the Norland Holdings TIF agreement and Harbor Brewing Company Agreement

NORLAND1st REDEVELOPMENT 98-00-98-4501

TIF note of \$850,000 with \$250,000 paid upfront from the General Capital Fund. 60% of incremental taxes from this project dedicated.

30 CEDAR AVENUE

Portion of TIF Note from Norland Holdings dedicated to 30 Cedar Avenue in Redevelopment Agreement.

89 CEDAR AVENUE

TIF Note for improvements to 89 Cedar Avenue, the Therapy Tree building.

POSTAGE 98-00-60-4810

Costs for postage related to the TIF District.

ADMINISTRATIVE EXPENSES 98-00-00-4800

Administrative costs related to the TIF District.

ELIGIBLE PROJECT EXPENSES 98-00-00-4801

Costs for TIF Eligible expenses for Creevy and other possible Redevelopment Agreements.

PARK AVE TIF FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
			•		-
REVENUE					
89-00-10-3010	TIF REVENUE	31,888	35,000	34,043	35,000
89-00-00-3810	INTEREST	3	10	144	200
TOTAL REVENUE		31,891	35,010	34,187	35,200
EXPENSES					
89-00-20-4330	TIF LEGAL FEES	-	2,000	-	4,000
89-00-00-4500	GENERAL FUND PAYBACK	-	1,000	-	-
89-00-60-4810	POSTAGE	-	50	-	-
89-00-00-4800	ADMINISTRATIVE EXPENSES	-	1,000	-	1,500
89-00-00-4802	TAXING DISTRICT SURPLUS PAYMENTS	13,095	9,000	-	-
89-00-00-4801	ELIGIBLE PROJECT EXPENSES	15,879	10,000	-	10,000
89-00-00-4803	CREAVY REAL ESTATE	-	-	16,883	18,000
TOTAL EXPENSES		28,975	23,050	16,883	33,500

TIF REVENUE 98-00-10-3010

Assumes funds from the incremental increase in property taxes within the Village's Park Avenue TIF district.

INTEREST 98-00-00-3810

Funds from interest from the TIF Fund.

EXPENSES

TIF LEGAL EXPENSES 98-00-20-4330

Legal expenses associated with the TIF District

GENERAL FUND PAYBACK 98-00-98-4500

Costs to repay the General Fund for the upfront contribution for the creation of the TIF.

POSTAGE 98-00-60-4810

Costs for postage related to the TIF District.

ADMINISTRATIVE EXPENSES 98-00-00-4800

Administrative costs related to the TIF District.

TAXING DISTRICT SURPLUS PAYMENTS

Payments to the taxing districts within the TIF for 50% of the annual surplus.

ELIGIBLE PROJECT EXPENSES 98-00-00-4801

Costs for TIF Eligible expenses not defined elsewhere.

CREAVY REAL ESTATE 89-00-00-4803

Reimbursement to Creavy Real Estate for 436 Park Ave TIF.

BUSINESS DISTRICT FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE		Ī			
99-00-10-3030	BUSINESS DISTRICT	179,544	200,000	200,884	210,000
99-00-30-3810	INTEREST	3,778	1,000	1,345	1,400
TOTAL REVENUE		183,322	201,000	202,228	211,400
EXPENSES					
99-00-00-8065	PURCHASE OF PROPERTY	3,600	5,000	-	5,000
99-00-00-8103	STREETSCAPE LOAN REPAYMENT	107,672	107,672	107,672	107,672
99-00-20-4330	BUSINESS DISTRICT LEGAL FEES	-	1,000	-	1,000
99-00-60-4810	POSTAGE	-	50	-	50
99-00-99-4501	NORLAND HOLDINGS, LLC 2ND REDEVELOPMENT	-	5,000	-	5,000
99-00-00-4800	ADMINISTRATIVE EXPENSES	-	2,000	-	5,000
99-00-00-4801	PROJECT EXPENSES	9,640	5,000	-	177,875
TOTAL EXPENSES		120,912	125,722	107,672	301,597

BUSINESS DISTRICT REVENUE

BUSINESS DISTRICT 99-00-10-3030

Revenue from 1% Business District sales tax revenue.

INTEREST 99-00-30-3810

Interest from balance of Business District.

BUSINESS DISTRICT EXPENSES

PURCHASE OF PROPERTY 99-00-00-8065

Costs to purchase property within the Business District.

STREETSCAPE PROJECT

Possible costs for additional streetscape work uncompleted.

LEGAL FEES 99-00-20-4330

Legal expenses associated with the Business District.

POSTAGE 99-00-60-4810

Costs for postage related to the Business District.

NORLAND HOLDINGS, LLC 2ND REDEVELOPMENT 99-00-99-4501

Costs for the Norland Holdings, LLC. second redevelopment agreement for the construction of the O'Tooles Parking Lot.

ADMINISTRATIVE EXPENSES 99-00-00-4800

Administrative costs related to the Business District.

PROJECT EXPENSES 99-00-00-4801

Costs for Business District Eligible expenses not defined elsewhere.

POLICE PENSION FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
DEVENUE			·	·	· · · · · · · · · · · · · · · · · · ·
REVENUE					
20-00-00-3010	REAL ESTATE TAXES	804,464	813,362	813,362	835,122
20-00-00-3030	EMPLOYEE CONTRIBUTIONS	205,495	155,211	148,705	168,459
20-00-00-3810	INTEREST EARNED	1,236	100,000	-	-
20-00-00-3811	GAIN/LOSS ON SCHWAB ACCTS	-	100,000	-	-
TOTAL REVENUE		1,011,195	1,168,573	962,067	1,003,581
EXPENSES					
20-00-10-4010	POLICE PENSION	823,083	671,271	701,311	705,000
20-00-60-4810	ADMINISTRATIVE EXPENSES	-	4,000	-	-
20-00-60-4812	BROKERAGE FEES	-	12,000	-	-
20-00-10-4530	TRAINING	-	6,000	-	-
20-00-20-4330	LEGAL FEES	-	7,500	-	
20-00-20-4310	AUDIT-ACTUARY REPORTS	4,456	6,500	4,653	6,500
TOTAL EXPENSES		827,539	707,271	705,963	711,500

DUI FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	Appropriation 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE						
93-00-00-3890	DUI FINES	3,294	5,000		6,063	
93-00-00-3900	OTHER REVENUE	248	-		-	-
93-00-30-3810	INTEREST INCOME	-	-		-	-
TOTAL REVENUE		3,542	5,000		6,063	-
EXPENSES						
93-00-00-5202	SQUAD CAMERA REPLACE	5,200	15,600	17,940	2,487	15,600
93-00-00-8094	POLICE BODY CAMERA	=	3,000	3,450	4,310	4,500
TOTAL EXPENSES		5,200	18,600	21,390	6,797	20,100

DRUG FORFEITURE FUND

		ACTUAL 2021/2022	BUDGET 2022/2023	EST. YR. END 2022/2023	BUDGET 2023/2024
REVENUE					
92-00-00-3890	DRUG SEIZURE	742	1,500	2,976	2,000
TOTAL REVENUE		742	1,500	2,976	2,000
EXPENSES					
92-00-00-8027	TASER REPLACEMENT	2,640	2,640	2,640	-
TOTAL EXPENSES		2,640	2,640	2,640	-