

PLAN COMMISSION MEETING AGENDA Thursday, September 4, 2025 at 6:00 P.M.

- A. Call to Order and Roll Call
- **B.** Approval of Minutes
 - 1. Approval of the regular meeting of August 21, 2025.
- C. Public Hearing Business Matters.

None.

D. Citizen comment period. Citizens may comment upon the Business Matter items set forth on this Meeting Agenda.

E. Business Matters

- 1. **Bear Development, Certified Survey Map.** Request for recommendation of a Certified Survey Map for the creation of two lots upon property located at the southeast corner of Chicory Street and Monarch Lane (Tax Key No. 891 9013 000).
- 2. **I-Forest, Site Plan.** Request to approve a resolution to approve a site plan for the development of a single-story medical office building with general parking, and accessory structures, upon property located at 5414 West Rawson Avenue (TAX KEY NO. 741 9004 000)

F. Adjournment

The YouTube channel "City of Franklin WI" will live stream the Plan Commission meeting so the public can watch and listen to it at https://www.youtube.com/c/CityofFranklinWIGov. Any questions on this agenda may be directed to the Department of City Development's office at 414-425-4024, Monday through Friday, 8 AM – 4:30 PM.

[Note: Upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information, contact the City Clerk's office at 414- 425-7500.]

REMINDERS: Next Regular Plan Commission Meeting: September 18, 2025.

^{*}Supporting documentation and details of these agenda items are available at City Hall during regular business hours.

**Notice is given that a majority of the Common Council may attend this meeting to gather information about an agenda item over which

they have decision-making responsibility. This may constitute a meeting of the Common Council per *State ex rel. Badke v. Greendale Village Board*, even though the Common Council will not take formal action at this meeting.

City of Franklin Plan Commission Meeting August 21, 2025 Minutes

A. Call to Order and Roll Call

Mayor John Nelson called the August 21, 2025 Plan Commission meeting to order at 6:04 p.m. in the Council Chambers at Franklin City Hall, 9229 West Loomis Road, Franklin, Wisconsin.

Present were Mayor John Nelson, Alderwoman Courtney Day, Alderman Nabil Salous, Commissioners Kevin Haley, Rebecca Specht and Michael Shawgo. Excused was Commissioner Patrick Leon. Also present were City Attorney Jesse Wesolowski, Planning Manager Regulo Martinez-Montilva, Director of Administration Kelly Hersh, and Alderwoman Michelle Eichmann. Commissioner Specht left the meeting at 9:26 pm.

B. Approval of Minutes – Regular Meeting of August 7, 2025.

Commissioner Haley moved and Alderwoman Day seconded a motion to approve the August 7, 2025 meeting minutes. On voice vote, all voted 'aye'; motion carried (5-0-1).

C. Public Hearing Business Matters

1. Franklin High School, Conditional Use. Request to approve a resolution imposing conditions and restrictions for a Conditional Use for the Franklin High School, an educational facility use, upon property located at 8222 South 51st Street (Tax Key No. 807 9999 001) [The Plan Commission opened a public hearing on August 7 and continued the hearing to this meeting].

Planning Manager Regulo Martinez-Montilva presented the Conditional Use request. Applicant Annalee Bennin, Superintendent, was present.

The Official Notice of Public Hearing was read in to the record by Planning Manager Martinez and the Public Hearing opened at 6:08 pm and closed at 6:59 pm.

Alderwoman Day moved and Alderman Salous seconded a motion to recommend approval of a resolution imposing conditions and restrictions for a Conditional Use for the Franklin High School, an educational facility use, upon property located at 8222 South 51st Street, with the following amendments: (1) this Conditional Use is approving access to High View Drive only for emergency vehicles, (2) Tennis court lighting shall be shut off by dusk or 8:00 p.m., with the exception of school sponsored activities or tournaments. On roll call, 4 voted aye, 1 vote nay; motion carried (4-1-1).

2. Franklin High School, Natural Resource Special Exception. Natural Resource Special Exception (NRSE) for proposed impacts and disturbance of approximately 0.27 acres of wetland, 0.66 acres of wetland buffer, 0.55 acres of wetland setback, and 6.74 acres of woodland to allow for the construction of a building addition, a concession building, parking lot and drive additions, tennis courts, and soccer field at Franklin High School located at 8222 South 51st Street (Tax Key No. 807 9999 001) [The Plan Commission opened a public hearing on July 17 and continued the hearing to this meeting].

Planning Manager Regulo Martinez-Montilva presented the Natural Resource Special Exception request. Applicant Annalee Bennin, Superintendent, was present.

The Official Notice of Public Hearing was read in to the record by Planning Manager Martinez and the Public Hearing opened at 9:03 pm and closed at 9:11 pm.

Alderman Salous moved and Alderwoman Day seconded a motion to approve a Natural Resource Special Exception for proposed impacts and disturbance of approximately 0.27 acres of wetland, 0.66 acres of wetland buffer, 0.55 acres of wetland setback, and 6.74 acres of woodland to allow for the construction of a building addition, a concession building, parking lot and drive additions, tennis courts, and soccer field at Franklin High School located at 8222 South 51st Street, with the following amendment: this Natural Resource Special Exception is not approving impacts to natural resources within 150 feet from the south and east property lines, with the exception of emergency access to High View Drive and stormwater management facilities. On roll call, 4 voted aye, 1 vote nay; motion carried (4-1-1).

D. Citizen comment period. Citizens may comment upon the Business Matter items set forth on this meeting agenda.

The citizen comment period opened at 10:10 p.m. and closed at 10:10 p.m.

E. Business Matters

1. Franklin High School, Site Plan Amendment. Request to approve a resolution to approve a Site Plan Amendment to allow for building and site modifications at the Franklin High School located at 8222 South 51st Street (Tax Key No. 807 9999 001).

Commissioner Haley moved and Alderwoman Day seconded a motion to table the Site Plan to a regular meeting that accommodates the applicant's schedule. On voice vote, all voted 'aye'; motion carried (5-0-1).

F. Adjournment

Commissioner Haley moved and Commissioner Specht seconded to adjourn the meeting at 10:14 pm. On voice vote, all voted 'aye'; motion carried (5-0-1).

Item E.1.



CITY OF FRANKLIN REPORT TO THE PLAN COMMISSION

Meeting of September 4, 2025

Certified Survey Map

RECOMMENDATION: City Development Staff recommends approval of this 2-Lot Certified Survey Map to subdivide property located at the southeast corner of Chicory Street and Monarch Drive, subject to the conditions set forth in this report and the attached resolution.

Project name: Bear Development Monarch Avenue Certified Survey Map

Property Owner: Loomis & Ryan, Inc.

Applicant: Dan Szczap, Bear Development, LLC

Property Address/TKN: 0 S. Monarch Drive / 891 9013 000

Aldermanic District: District 6

Zoning District: LI Limited Industrial District
Staff Planner: Nick Fuchs, Associate Planner

Please note:

- Recommendations are *underlined*, *in italics* and are included in the draft resolution.
- Suggestions are only <u>underlined</u> and are not included in the draft resolution.

Project Description/Analysis

The applicant is seeking approval of a 2-Lot Certified Survey Map (CSM) to subdivide property located at the southeast corner of Chicory Street and Monarch Drive, bearing Tax Key No. 891 9013 000. The subject property is currently vacant and has an area of approximately 9.39-acres.

Lot 1 has an area of approximately 7.47 acres and Lot 2 has an area of 1.92 acres. The applicant has indicated that Lot 2 is being created for a potential future user of the site. Any proposed development of this lot will require use approval and Plan Commission approval of a Site Plan Application.

The property is zoned LI Limited Industrial District, which does not have a required minimum lot area. The minimum lot width and depth of the LI District is 50-feet and 110-feet, respectively. Both lots conform to these standards.

The applicant provided a Natural Resource Protection Plan. The NRPP shows a wetland to the south. It appears the wetland setback may extend onto the south end of Lot 2. As such, <u>staff recommends that the applicant illustrate the wetland, wetland buffer, and wetland setback delineations on the CSM. Alternatively, the applicant may demonstrate, to the satisfaction of the Planning Manager, that no protected natural resources extend onto Lot 2.</u>

Staff Recommendation

City Development Staff recommends approval of this 2-Lot Certified Survey Map to subdivide property located at the southeast corner of Chicory Street and Monarch Drive, subject to the conditions set forth in this report and the attached resolution.

RESOLUTION NO. 2025-

A RESOLUTION CONDITIONALLY APPROVING A 2-LOT CERTIFIED SURVEY MAP, BEING LOT 1 OF CERTIFIED SURVEY MAP NO. 9421, LOCATED IN THE SOUTHWEST 1/4 AND NORTHWEST 1/4 OF THE NORTHEAST 1/4 AND THE NORTHEAST 1/4 AND THE SOUTHEAST 1/4 OF THE NORTHWEST 1/4 ALL IN SECTION 30, TOWNSHIP 5 NORTH, RANGE 21 EAST, IN THE CITY OF FRANKLIN, MILWAUKEE COUNTY, WISCONSIN (LOOMIS & RYAN, INC., PROPERTY OWNER) (TAX KEY NO. 891-9013-000)

WHEREAS, the City of Franklin, Wisconsin, having received an application for approval of a certified survey map, such map being a redivision of a parcel of land being Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, in the City of Franklin, Milwaukee County, Wisconsin, now being more particularly bounded and described and follows:

Commencing at the northwest corner of the Northeast 1/4 of said Section 30; Thence South 00°34'43" East along the west line of said Northeast 1/4, 986.00 feet to the Point of Beginning; Thence South 44°24'10" East along the west line of Outlot 3 of Ryan Meadows, a recorded subdivision, 200.97 feet; Thence South 00°34'43" East along said west line, 365.13 feet; Thence South 89°25'17" West along said west line, 116.04 feet; Thence South 01°10'06" East along said west line, 600.00 feet to the north line of Lot 2 of Certified Survey Map No. 9421; Thence South 88°49'54" West along said north line, 273.89 feet to the east right of way line of Monarch Drive; Thence North 07°48'36" West along said right of way line, 514.75 feet to a point of curvature; Thence northwesterly 241.78 feet along the arc of said curve to the left and said right of way line, whose radius is 270.00 feet and whose chord bears North 33°27'51" West, 233.79 feet; Thence North 59°07'06" West along said right of way line, 82.77 feet; Thence North 14°02'32" West along said right of way line, 27.27 feet to the south right of way line of Chicory Street; Thence North 30°52'54" East along said right of way line, 29.00 feet to a point of curvature; Thence northeasterly 114.43 feet along the arc of said curve to the right and said right of way line, whose radius is 190.00 feet and whose chord bears North 48°08'09" East, 112.71 feet; Thence North 65°23'24" East along said right of way line, 245.97 feet to a point of curvature; Thence northeasterly 181.45 feet along the arc of said curve to the left and said right of way line, whose radius is 535.00 feet and whose chord bears North 55°40'26" East, 180.58 feet; Thence North 45°57'27" East along said right of way line, 53.22 feet to the Point of Beginning. Containing 409,070 square feet (9.3910 acres) of land Gross, more or less; and

WHEREAS, the Common Council having reviewed such application and Plan Commission recommendation and the Common Council having determined that such proposed certified survey map is appropriate for approval pursuant to law upon certain conditions.

LOOMIS & RYAN, INC. – CERTIFIED SURVEY M	1AP
RESOLUTION NO. 2025	
Page 2	

NOW, THEREFORE, BE IT RESOLVED, by the Mayor and Common Council of the City of Franklin, Wisconsin, that the Certified Survey Map submitted by Bear Development, as described above, be and the same is hereby approved, subject to the following conditions:

- 1. That any and all objections made and corrections required by the City of Franklin, by Milwaukee County, and by any and all reviewing agencies, shall be satisfied and made by the applicant, prior to recording.
- 2. That all land development and building construction permitted or resulting under this Resolution shall be subject to impact fees imposed pursuant to §92-9 of the Municipal Code or development fees imposed pursuant to §15-8-10 of the Unified Development Ordinance, both such provisions being applicable to the development and building permitted or resulting hereunder as it occurs from time to time, as such Code and Ordinance provisions may be amended from time to time.
- 3. Each and any easement shown on the Certified Survey Map shall be the subject of separate written grant of easement instrument, in such form as provided within the *City of Franklin Design Standards and Construction Specifications* and such form and content as may otherwise be reasonably required by the City Engineer or designee to further and secure the purpose of the easement, and all being subject to the approval of the Common Council, prior to the recording of the Certified Survey Map.
- 4. Loomis & Ryan, Inc., successors and assigns, and any developer of the Loomis & Ryan, Inc. two (2) lot certified survey map project, shall pay to the City of Franklin the amount of all development compliance, inspection and review fees incurred by the City of Franklin, including fees of consults to the City of Franklin, within 30 days of invoice for same. Any violation of this provision shall be a violation of the Unified Development Ordinance, and subject to §15-9-14.E. thereof and §1-19 of the Municipal Code, the general penalties and remedies provisions, as amended from time to time.
- 5. The approval granted hereunder is conditional upon Loomis & Ryan, Inc. and the 2 lot certified survey map project for the property bearing Tax Key No. 891 9013 000: (i) being in compliance with all applicable governmental laws, statutes, rules, codes, orders and ordinances; and (ii) obtaining all other governmental approvals, permits, licenses and the like, required for and applicable to the project to be developed and as presented for this approval.
- 6. Applicant shall illustrate the wetland, wetland buffer, and wetland setback delineations on the CSM. Alternatively, the applicant may demonstrate, to the satisfaction of the Planning Manager, that no protected natural resources extend onto Lot 2.
- 7. The applicant must resolve any technical corrections required by the Engineering or Planning Department, or the City Attorney's Office prior to the recording of the Certified Survey Map.

BE IT FURTHER RESOLVED, that the Certified Survey Map, certified by owner,

LOOMIS & RYAN, INC. – CERTIFIED SURVEY M	[AP
RESOLUTION NO. 2025	
Page 3	

Loomis & Ryan, Inc., be and the same is hereby rejected without final approval and without any further action of the Common Council, if any one, or more than one of the above conditions is or are not met and satisfied within 180 days from the date of adoption of this Resolution.

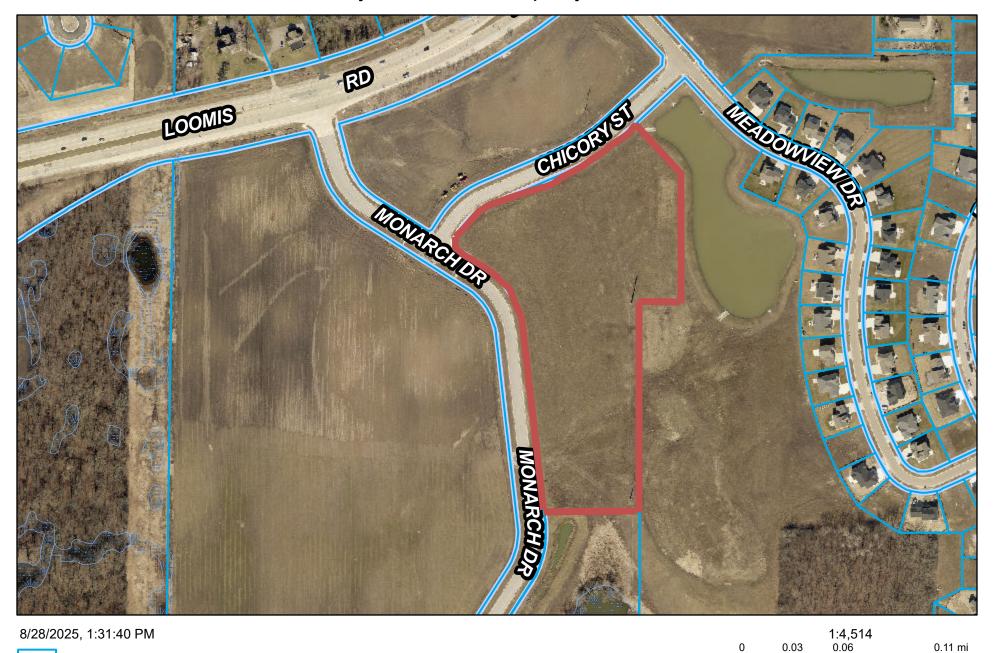
BE IT FINALLY RESOLVED, that upon the satisfaction of the above conditions within 180 days of the date of adoption of this Resolution, same constituting final approval, and pursuant to all applicable statutes and ordinances and lawful requirements and procedures for the recording of a certified survey map, the City Clerk is hereby directed to obtain the recording of the Certified Survey Map, certified by owner, Loomis & Ryan, Inc., with the Office of the Register of Deeds for Milwaukee County.

Introduced at a regular meeting of the Common Council of the City of Franklin this 16th day of September, 2025.

Passed and adopted at a regular meeting of the Common Council of the City of Franklin this 16th day of September, 2025.

			APPROVED:	
			John R. Nelson, Mayor	
ATTEST:				
Shirley J.	Roberts, City C	lerk		
AYES	NOES	ABSENT		

City of Franklin Property Viewer



Parcel

Guest Earthstar Geographics | City of Franklin, WI |

0.04

SE Wisc Reg Planning Comm, SEWRPC, Maxar

0.09

0.17 km

MEMORANDUM

Date: August 1, 2025

To: Dan Szczap, Bear Development

From: Department of City Development

Nick Fuchs, Associate Planner

RE: Application for Certified Survey Map (CSM)

O South Monarch Drive (Tax Key No. 891 9013 000)

Staff comments are as follows for the above-referenced application received on June 17, 2025.

City Development Department

- 1. Does the wetland buffer to the south extend onto Lot 2?
- 2. Is any land being dedicated to the City? If not, the "dedication accepted" language on Sheet 8 may be removed.
- 3. Please address the following requirements per Section 15-7.0702 of the UDO.
 - Owner, Subdivider, Land Surveyor. Name and address of the owner, Subdivider, and Land Surveyor.
 - Existing Zoning. The Certified Survey Map shall indicate on its face the current zoning and zoning boundary lines of all parcels, lots or outlots proposed to be created by the Certified Survey Map.
- 4. Is there a timeframe anticipated for development applications being submitted for Lot 2? Staff recommends providing a conceptual site plan for reference. Note that in proposing the land division in advance of plans for the development, staff is not able to provide comments regarding the site plan, landscaping, storm water management and other requirements that may impact the lot size needs of the development.

Milwaukee County Register of Deeds

Milwaukee County Register of Deeds comments will be forwarded as soon as they are received.

Engineering Department

- 1. Show the coordinates of the south monument.
- 2. Show property ownership north of Chicory Street.
- 3. Show the width of the right of way below the street name for Chicory and Monarch.
- 4. Page 4 of 8 Show the tax key number (TKN) for the property north of Chicory Street.
- 5. Page 8 of 8 Under City of Franklin Council Approval remove dedication.
- 6. Insert the middle initial for the Mayor (R) and the City Clerk (J).



June 5, 2025

Regulo Martinez-Montilva City of Franklin 9229 W. Loomis Road Franklin, WI 53132

RE: Certified Survey Map Application

Dear Mr. Martinez-Montilva:

Bear Development is pleased to submit this letter and the enclosed submittal materials as formal application for Certified Survey Map review and approval. Bear Development is acting on behalf of the owners of record, Loomis & Ryan, Inc.

Property Summary

Loomis & Ryan, Inc. is the owner of record of 9.39 acres of vacant land in the City of Franklin. The property is Lot 1 of CSM No. 9421 in Ryan Meadows Subdivision.

Tax Key No:

891-9013-000

Address:

Monarch Drive, Franklin, WI

Existing Zoning:

M-1 Limited Industrial

The property is located on the east side of Monarch Drive, south of Chicory Street. The subject property is vacant.

Project Summary

Bear Development, LLC respectfully requests review and approval of the enclosed Certified Survey Map to create a 1.92 acre lot to accommodate a land sale/purchase.

We feel the requested land division will create separate parcels with future land use which is consistent and compatible with the properties in the general area.

Should you have any questions regarding this request, please do not hesitate to contact me. I can be reached at (262) 842-0556 or by email, dan@beardevelopment.com

Sincerely,

Daniel Szczap

Bear Development, LLC



Phone: 262.694.2327



www.beardevelopment.com

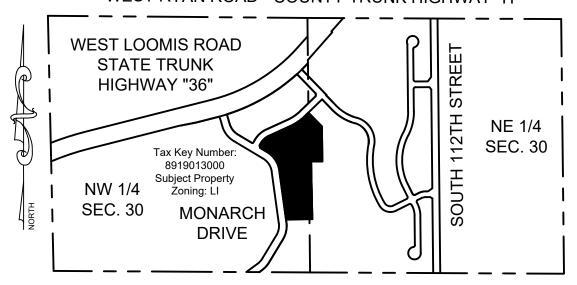




Being Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin

VICINITY SKETCH SCALE 1"=1000'

WEST RYAN ROAD - COUNTY TRUNK HIGHWAY "H"



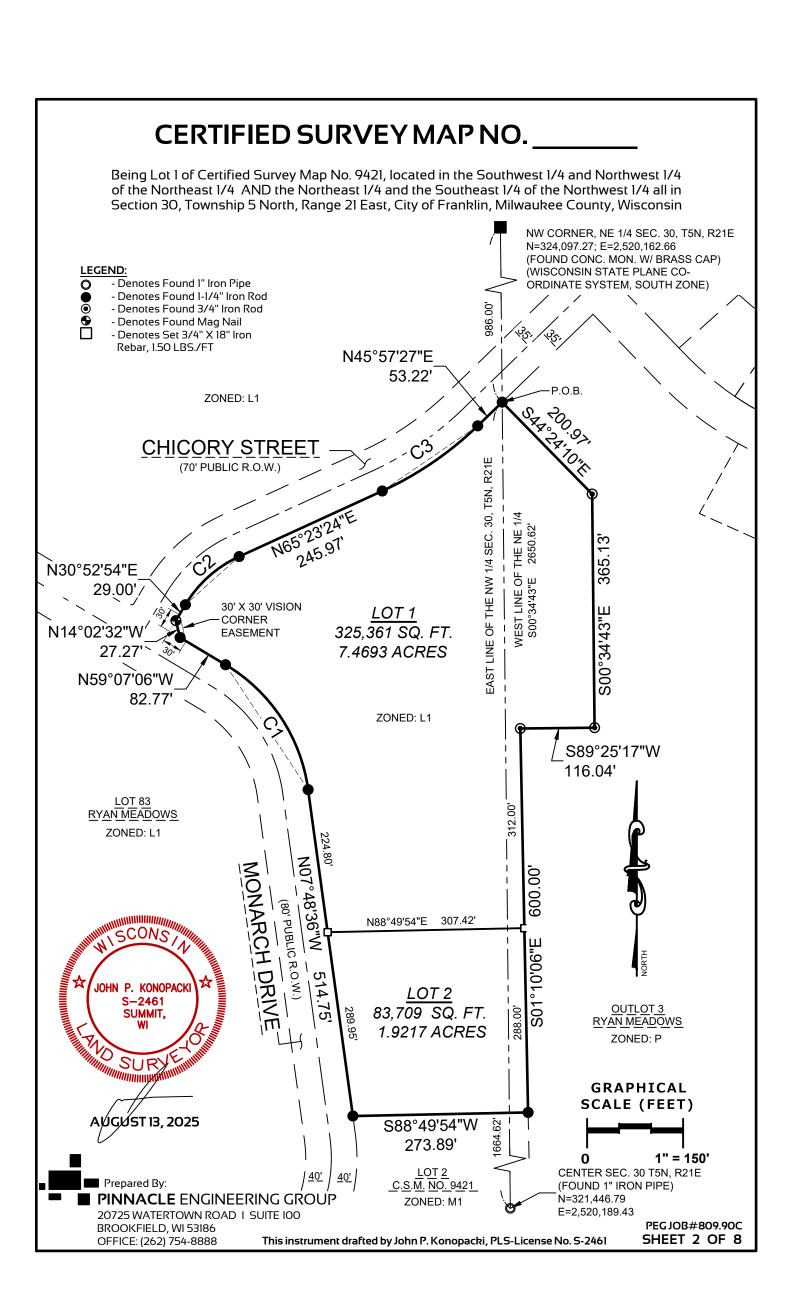
Prepared for: LOOMIS & RYAN, INC. 4011 80th Street Kenosha, WI 53142



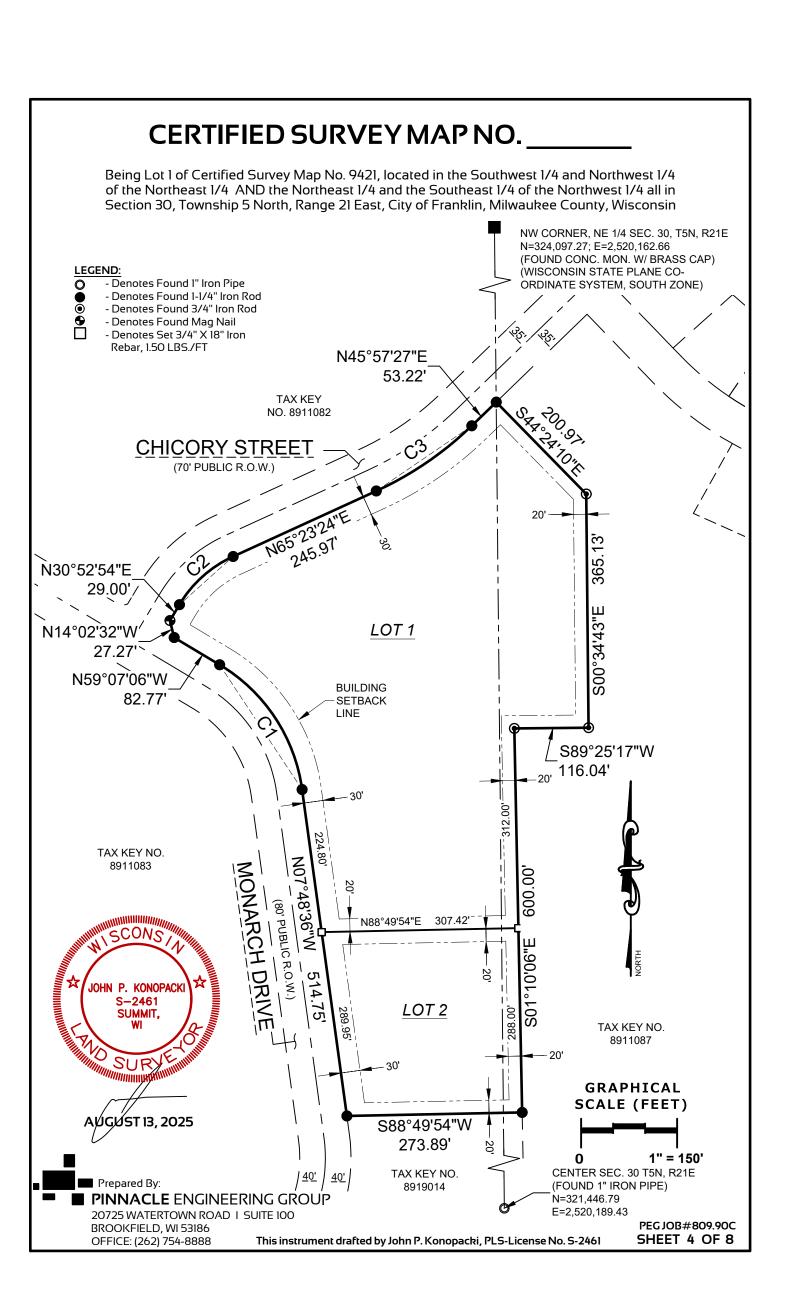
NOTES:

- 1. Flood Zone Classification: The property lies with in Zone "X" of the Flood Insurance Rate Map Community Panel No. 55079C0206F Dated OCTOBER 24, 2024. Zone "X" areas are determined to be outside the 0.2% annual chance floodplain.
- Bearings referenced to the Wisconsin State Plane Coordinate System, South Zone (N.A.D. 1927). The north line of the Northeast 1/4 of Section 30, Township 5 North, Range 21 East bears S89°44'26"E.
- 3. VISION CORNER EASEMENTS: No Obstructions Permitted. No visual obstructions, such as structures, parking, or vegetation, shall be permitted between the heights of 2.5 feet and 10 feet above the plane through the mean curb grades within the Vision Corner Easement.
- 4. Lots 1 and Lot 2 are served by Public Sewer and Water.

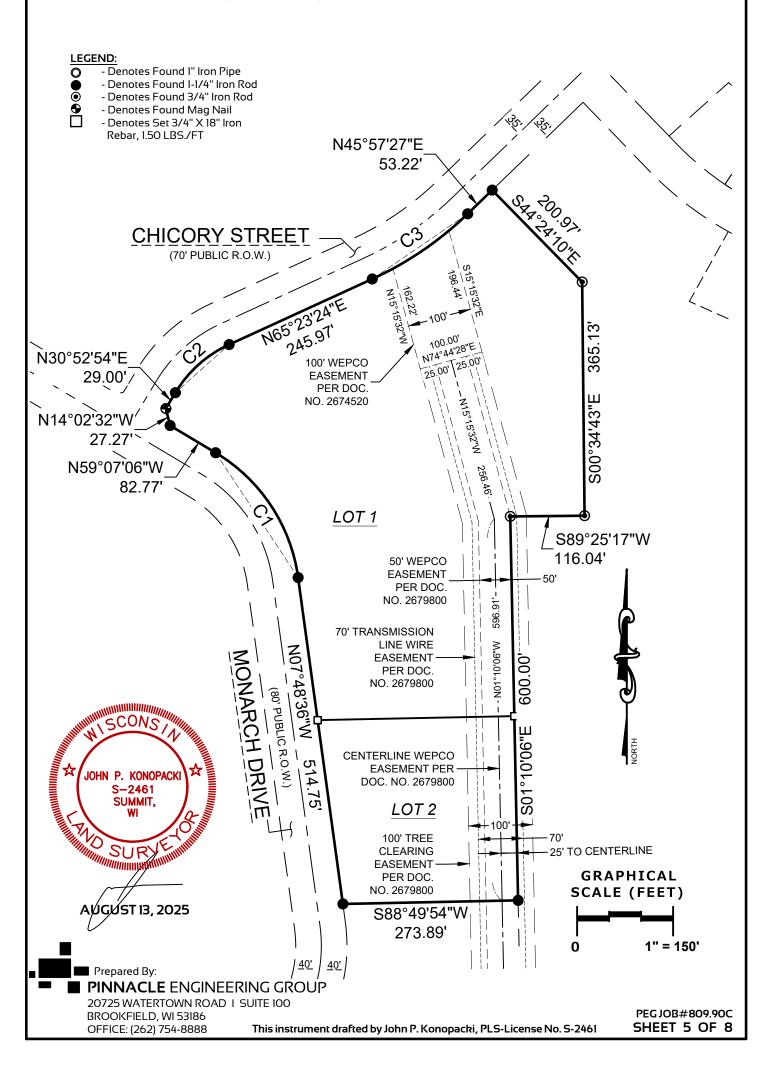




CERTIFIED SURVEY MAP NO. Being Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin NW CORNER, NE 1/4 SEC. 30, T5N, R21E N=324,097.27; E=2,520,162.66 (FOUND CONC. MON. W/ BRASS CAP) LEGEND: WISCONSIN STATE PLANE CO-- Denotes Found 1" Iron Pipe ORDINATE SYSTEM, SOUTH ZONE) - Denotes Found 1-1/4" Iron Rod - Denotes Found 3/4" Iron Rod - Denotes Found Mag Nail - Denotes Set 3/4" X 18" Iron Rebar, 1.50 LBS./FT N45°57'27"E 53.22' OWNER: LOOMIS & RYAN INC CHICORY STREET (70' PUBLIC R.O.W.) RYAN MEADOWS TRAIL EASEMENT PER CSM 9421 L=67.78 RADIUS=90.00 39.84' N01°15'06"W N22°49'38"W CHORD=66.19' N30°52'54"E 29.00' L=128.98' RADIUS=510.00' N08°29'48"W N14°02'32"W CHORD=128.63' LOT 1 27.27 N15 44'30"W 2.43 N59°07'06"W 82.77 S89°25'17"W 116.04' EXISTING TOPOGRAPHY Vertical Datum: National Geodetic N07°48'36"W Vertical Datum of 1929 (NGVD29). OWNER: CELLCO Contours are shown at a 2' interval PARTNERSHIP based on actual ground survey of the current ground terrain. (80' PUBLIC R.O.W.) Reference Benchmark: Concrete 307.42 N88°49'54"E monument with brass cap at the 5CONSNorthwest corner of the Northeast 1/4 Section 30, Town 5 North, Range 21 East, Ŋ Elevation = 803.18. JOHN P. KONOPACK 4 .75 288.00 OWNER: LOT 2 **BOOMTOWN LLC** 804 **GRAPHICAL** SCALE (FEET) GUST 13, 2025 S88°49'54"W 273.89' 1" = 150' OWNER: RISE CENTER SEC. 30 T5N, R21E <u>| 40'</u> <u>40'</u> Prepared By: FRANKLIN WI LLC (FOUND 1" IRON PIPE) **PINNACLE ENGINEERING GROUP** N=321.446.79 E=2,520,189.43 20725 WATERTOWN ROAD | SUITE 100 BROOKFIELD, WI 53186 OFFICE: (262) 754-8888 PEGJOB#809.90C This instrument drafted by John P. Konopacki, PLS-License No. S-2461 SHEET 3 OF 8



Being Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin



Being Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin

SURVEYOR'S CERTIFICATE

STATE OF WISCONSIN) WAUKESHA COUNTY) SS

I, John P. Konopacki, Professional Land Surveyor, do hereby certify:

That I have surveyed, mapped and divided all of Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin, described as follows:

Commencing at the northwest corner of the Northeast 1/4 of said Section 30;

Thence South 00°34'43" East along the west line of said Northeast 1/4, 986.00 feet to the Point of Beginning;

Thence South 44°24'10" East along the west line of Outlot 3 of Ryan Meadows, a recorded subdivision, 200.97 feet;

Thence South 00°34'43" East along said west line, 365.13 feet; Thence South 89°25'17" West along said west line, 116.04 feet;

Thence South 01°10'06" East along said west line, 600.00 feet to the north line of Lot 2 of Certified Survey Map No. 9421; Thence South 88°49'54" West along said north line, 273.89 feet to the east right of way line of Monarch Drive;

Thence North 07°48'36" West along said right of way line, 514.75 feet to a point of curvature;

Thence northwesterly 241.78 feet along the arc of said curve to the left and said right of way line, whose radius

is 270.00 feet and whose chord bears North 33°27'51" West, 233.79 feet; Thence North 59°07'06" West along said right of way line, 82.77 feet;

Thence North 14°02'32" West along said right of way line, 27.27 feet to the south right of way line of Chicory Street;

Thence North 30°52'54" East along said right of way line, 29.00 feet to a point of curvature;

Thence northeasterly 114.43 feet along the arc of said curve to the right and said right of way line, whose radius

is 190.00 feet and whose chord bears North 48°08'09" East, 112.71 feet;

Thence North 65°23'24" East along said right of way line, 245.97 feet to a point of curvature;

Thence northeasterly 181.45 feet along the arc of said curve to the left and said right of way line, whose radius

is 535.00 feet and whose chord bears North 55°40'26" East, 180.58 feet;

Thence North 45°57'27" East along said right of way line, 53.22 feet to the Point of Beginning.

Containing 409,070 square feet (9.3910 acres) of land Gross, more or less.

That I have made such survey, land division and map by the direction of LOOMIS & RYAN INC. owner of said land.

That such plat is a correct representation of all the exterior boundaries of the land surveyed and the land division thereof made.

That I have fully complied with the requirements of Chapter 236 of the Wisconsin State Statutes and the City of Franklin Land Division Ordinance and the Unified Development Ordinance Division - 15 of the City of Franklin in surveying the certified survey map.

Date: AUGUST 13, 2025



John Þ. Konopacki

Professional Land Surveyor S-2461

BOUNDARY CURVE TABLE							
CURVE	LENGTH	RADIUS	DELTA	CHORD BEARING	CHORD LENGTH	TANGENT	TANGENT
C1	241.78'	270.00'	051°18'30"	N33°27'51"W	233.79'	N07°48'36"W	N59°07'06"W
C2	114.43'	190.00'	034°30'30"	N48°08'09"E	112.71'	N30°52'54"E	N65°23'24"E
C3	181.45'	535.00'	019°25'57"	N55°40'26"E	180.58'	N65°23'24"E	N45°57'27"E



Being Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin

OWNER'S CERTIFICATE

LOOMIS & RYAN INC, a corporation duly organized and existing under and by virtue of the laws of the State of Wisconsin, as owner, does hereby certify that said corporation caused the land described on this certified survey map to be surveyed, divided and mapped as represented on this certified survey map.

LOOMIS & RYAN INC, as owner, also certifies that this map is required by s.236.10 or s.236.12 of the Wisconsin State Statutes and

N WITNESS WHEREOF, the said LOOMIS & RYAN			at
name - print) city),	, (title) County, Wisconsin, on this	day of	_, at , 2025.
n the presence of: LOOMIS & RYAN INC.			
lame (signature) - Title			
STATE OF WISCONSIN) COUNTY) SS			
•			
rersonally came before me this day of itle)	, 2025, (nam	ie)	, , , , , , , , , , , , , , , , , , ,
who executed the foregoing instrument, and to me ki orporation and acknowledged that they executed the uthority.	nown to be such		(title) of said
lotary Public lame:			
state of Wisconsin			
My Commission Expires:			
f John P. Konopacki, surveyor, and does hereby con WITNESS WHEREOF, the said, its President, and 022.	, has caused these pres	sents to be signed by	of
ate	Pres	sident	
TATE OF MUCCONICINII			
STATE OF WISCONSIN) COUNTY) SS			
COUNTY) SS	, 2022, _ nown to be such officer of said corpo	oration and	
ersonally came before me this day of	, 2022, lown to be such officer of said corpo	oration and	IIIIIII
ersonally came before me this day of tho executed the foregoing instrument and to me kn cknowledged the same.	_, 2022, nown to be such officer of said corpo	oration and	IIIIIII.
ersonally came before me this day of tho executed the foregoing instrument and to me kn cknowledged the same.	, 2022, nown to be such officer of said corpo	oration and	NOPACKI A

20725 WATERTOWN ROAD | SUITE 100 BROOKFIELD, WI 53186 OFFICE: (262) 754-8888

PEGJOB#809.90C SHEET 7 OF 8

CERTIFIED SURVEY MAP NO.	
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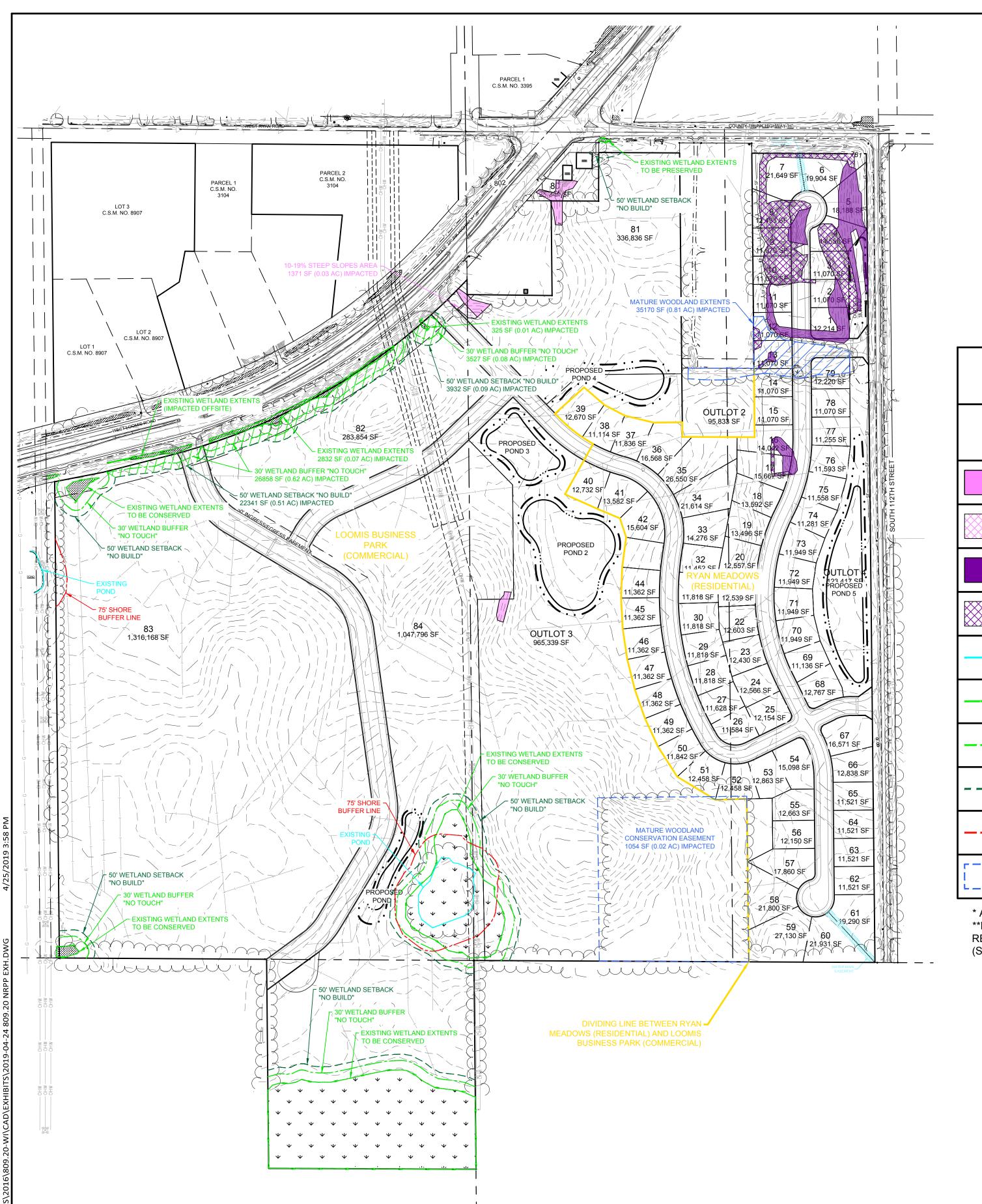
Being Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin

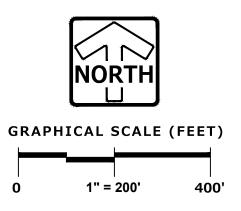
CITY OF FRANKLIN COMMON COUNCIL APPROVAL

Approved and accepted by the Common Council of the City of Franklin by Resolution No.				
Signed this day of	, 2025.			
Date	John R. Nelson, Mayor			
Date	Shirley I Roberts City Clark			









NATURAL RESOURCE FEATURE AREAS						
RESOURCE TYPE	RYAN MEADOWS (RESIDENTIAL) LOTS 1-79, OUTLOTS 1 & 4 (27.97 AC)	LOOMIS BUSINESS PARK (COMMERCIAL) LOTS 80-84, OUTLOTS 2 & 3 (105.43 AC)	ENTIRE BASE SITE (133.40 AC)			
STEEP SLOPES AREA - 10-19% SLOPES - PER PEG SURVEYED CONTOURS	N/A	13,461 SF (0.31 AC)	13,461 SF (0.31 AC)			
STEEP SLOPES AREA - 20-30% SLOPES - PER PEG SURVEYED CONTOURS	N/A	N/A	N/A			
STEEP SLOPES - MAN-MADE - 10-19% SLOPES - PER PEG SURVEYED CONTOURS	N/A	N/A	N/A			
STEEP SLOPES - MAN-MADE - 20-30% SLOPES - PER PEG SURVEYED CONTOURS	N/A	N/A	N/A			
PONDS -FIELD DELINEATED BY PEG SURVEY IN JANUARY OF 2019	N/A	28,733 SF (0.66 AC)	28,733 SF (0.66 AC)			
WETLANDS -SEE DELINEATION NFORMATION BELOW**	N/A	251,003 SF (5.76 AC)	251,003 SF (5.76 AC)			
WETLAND BUFFER "NO TOUCH" - 30' OFFSET, BASED OFF WETLAND DELINEATION	N/A	104,124 SF (2.39 AC)	104,124 SF (2.39 AC)			
WETLAND SETBACK "NO BUILD" - 50' OFFSET, BASED OFF WETLAND DELINEATION	N/A	79,308 SF (1.82 AC)	79,308 SF (1.82 AC)			
SHORE BUFFER - 75' OFFSET, BASED OFF FIELD VERIFIED POND LOCATION	N/A	14,983 SF (0.34 AC)	14,983 SF (0.34 AC)			
MATURE WOODLAND BASED OFF PEG SURVEY AND CHAPUT CSM	36,224 SF (0.83 AC)	268,151 SF (6.16 AC)	304,375 SF (6.99 AC)			

^{*} ADDITIONAL INFORMATION IS INCLUDED IN THE ATTACHED SITE INTENSITY CALCULATIONS



FRANKLIN DEVELOPMENT - NATURAL RESOURCES PROTECTION PLAN

04/25/19

809.20

^{**}FIELD DELINEATED BY RA SMITH NATIONAL ON 10-29-14 & 10-30-14 (SEE "WETLAND DELINEATION REPORT" DATED 03-19-15)

RE-DELINEATED ALONG LOOMIS BY HEARTLAND ECOLOGICAL GROUP ON 08-15-18, 08-19-18 & 08-22-18

⁽SEE "WETLAND DELINEATION REPORT" DATED 09-11-18)

Bing all of Lot 1 of Certified Survey Map No. 9421, located in the Southwest 1/4 and Northwest 1/4 of the Northeast 1/4 AND the Northeast 1/4 and the Southeast 1/4 of the Northwest 1/4 all in Section 30, Township 5 North, Range 21 East, City of Franklin, Milwaukee County, Wisconsin, described as follows:

Commencing at the northwest corner of the Northeast 1/4 of said Section 30; Thence South 00°34'43" East along the west line of said Northeast 1/4, 986.00 feet to the Point of Beginning;

Thence South 44°24'10" East along the west line of Outlot 3 of Ryan Meadows, a recorded subdivision, 200.97 feet; Thence South 00°34'43" East along said west line, 365.13 feet; Thence South 89°25'17" West along said west line, 116.04 feet; Thence South 01°10'06" East along said west line, 600.00 feet to the north line of Lot 2 of Certified Survey Map No. 9421; Thence South 88°49'54" West along said north line, 273.89 feet to the east right of way line of Monarch Drive; Thence North 07°48'36" West along said right of way line, 514.75 feet to a point of curvature; Thence northwesterly 241.78 feet along the arc of said curve to the left and said right of way line, whose radius is 270.00 feet and whose chord bears North 33°27'51" West, 233.79 feet; Thence North 59°07'06" West along said right of way line, 82.77 feet; Thence North 14°02'32" West along said right of way line, 27.27 feet to the south right of way line of Chicory Street; Thence North 30°52'54" East along said right of way line, 29.00 feet to a point of curvature; Thence northeasterly 114.43 feet along the arc of said curve to the right and said right of way line, whose radius is 190.00 feet and whose chord bears North 48°08'09" East, 112.71 feet; Thence North 65°23'24" East along said right of way line, 245.97 feet to a point of curvature; Thence northeasterly 181.45 feet along the arc of said curve to the left and said right of way line, whose radius is 535.00 feet and whose chord bears North 55°40'26" East, 180.58 feet; Thence North 45°57'27" East along said right of way line, 53.22 feet to the Point of Beginning.

Containing 409,070 square feet (9.3910 acres) of land Gross, more or less.



506 Springdale Street, Mount Horeb, WI 53572

April 23, 2025

Mr. Dan Szczap Bear Development, LLC 4011 80th Street Kenosha, WI, 53142

RE: Wetland Determination Summary – Ryan Meadows CSM Parcels, City of Franklin, Milwaukee County, Wisconsin

Dear Dan:

Heartland Ecological Group, Inc. ("Heartland") completed a(n) assured wetland determination at the Project Site on April 21, 2025 at the request of Bear Development, LLC. Fieldwork was completed by Eric C. Parker, SPWS, an assured delineator qualified via the Wisconsin Department of Natural Resources (WDNR) Wetland Delineation Assurance Program (Attachment 5, Delineator Qualifications). The 17.11-acre site (the "Study Area") lies in the north-central portion of Section 30, T5N, R21E, City of Franklin, Milwaukee County, Wisconsin (Attachment 1, Figure 1). This Study Area was split into two parcels. The north parcel is 7.73 acres and located immediately southeast of the intersection of State Trunk Highway (STH) 36 (Loomis Road) and County Trunk Highway (CTH) H (Ryan Road). The southern parcel is 9.39 acres and is located 1,000 feet south of the intersection of STH 36 and CTH H. The purpose of the wetland delineation was to determine the location and extent of wetlands within the Study Area. There were no wetlands identified within the Study Area (Attachment 1, Figure 7). These findings are consistent with the previous assured wetland delineation completed by RA Smith in October 2014 (Attachment 7).

Methods

Wetland determinations were based upon the criteria and methods described in the USACE Wetland Delineation Manual, T.R. Y-87-1 ("1987 Corps Manual") and the applicable Regional Supplement to the Corps of Engineers Wetland Delineation Manual. In addition, the Guidance for Submittal of Delineation Reports to the St. Paul District USACE and the WDNR (WDNR, 2015) was followed in completing the wetland determination and report.

Wetland determinations utilized available resources including the U.S. Geological Survey's (USGS) WI 7.5 Minute Series (Topographic) Map (Figure 2, Appendix A), the U.S. Department of Agriculture (USDA) Natural Resource Conservation Service's (NRCS) Soil Survey Geographic Database (SSURGO) Web Soil Survey (Figure 3, Appendix A), the WDNR's Wetland Indicator data layer (Figure 4, Appendix A), the WDNR's Wisconsin Wetland Inventory data layer (Figure 5, Appendix A), the WDNR's 24k Hydro Flowlines (Rivers and Streams) data layer (Figure 2 and 5, Appendix A), the WDNR's Color-Stretch LiDAR and Hillshade Image Service Layer (Figure 6, Appendix A), and aerial imagery available through the USDA Farm Service Agency's (FSA) National Agriculture Imagery Program (NAIP) and Milwaukee County's Land Information Office.



Wetland determinations were completed on-site at sample points, often along transects if wetlands were determined to be present, using the three (3) criteria (vegetation, soil, and hydrology) approach per the 1987 Corps Manual and the Regional Supplement. Procedures in these sources were followed to demonstrate that, under normal circumstances, wetlands were present or not present based on a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology.

Fieldwork was completed in the spring when conditions are typically wet in most types of wetlands in southern Wisconsin. Typically, primary indicators such as High-Water Table (A2) and Saturation (A3) are expected to be present in seasonal wetlands at this time of year. The growing season was reviewed to determine it was underway based on the emergence of non-evergreen perennial plant species, buds opening on shrubs and trees, and/or the soil temperature at 12 inches depth being at 41 degrees Fahrenheit or higher within the Study Area. Sample point placement(s) for the wetland determination(s) were based on topography and the presence of potentially hydric soils as indicated by NRCS-mapped soil units and the previous wetland delineation.

Recent weather conditions influence the visibility or presence of certain wetland hydrology indicators. An assessment of recent precipitation patterns helps to determine if climatic/hydrologic conditions were typical when the field investigation was completed. Therefore, a review of antecedent precipitation in the 90 days leading up to the field investigation was completed. Using an Antecedent Precipitation Tool (APT) analysis developed by the USACE (Deters & Gutenson 2021), the amount of precipitation over these 90 days was compared to averages and standard deviation thresholds observed over the past 30 years to generally represent if conditions encountered during the investigation were normal, wet, or dry. Recent precipitation events in the weeks prior to the investigation were also considered while interpreting wetland hydrology indicators. Additionally, the Palmer Drought Severity Index was checked for long-term drought or moist conditions (NOAA, 2018).

The sample point locations were recorded with a Global Navigation Satellite System (GNSS) receiver capable of sub-meter accuracy. Wetland flagging was not utilized and sample point locations were only recorded with a GNSS receiver. The GNSS data was then used to map the sample point locations using ESRI ArcGIS Pro™ software.

Results

According to the APT analysis using the previous 90 days of precipitation data, conditions encountered at the time of the fieldwork were expected to be normal for the time of year (Appendix B). The Palmer Drought Severity Index was checked as part of the APT analysis, and the long-term conditions at the time of the fieldwork were in the mild drought range. Fieldwork was completed outside the dry season based on long-term regional hydrology data utilized in the WebWIMP Climatic Water Balance and computed as part of the APT analysis. The growing season was determined to be underway based on several non-evergreen perennial plant species greening-emerging.

The topography within the northern parcel was rolling, with various hills, depressions, and slopes and a topographic high of approximately 802 feet mean sea level (msl) on the west side, and a topographic low of approximately 787 feet msl within a depression on the east side. In the southern parcel, the topography consisted of a ridge in the southern portion of the parcel, grading down towards a depression in the north (Attachment 1, Figures 2 and



7). Topography had been graded since the 2014 wetland delineation. Land uses within the Study Area and surrounding areas are primarily agricultural row cropping and residential, with industrial and woodland areas also present.

Soils mapped by the NRCS Soil Survey within the Study Area and their hydric status are summarized in Table 1 and illustrated on Figure 3. Those areas of the Study Area with hydric or potentially hydric soils mapped by the NRCS were the primary focus of the field wetland determination.

The Wisconsin Wetland Inventory (WWI) mapping (Attachment 1, Figure 5) does not identify wetlands within the Study Area.

Table 1. Summary of NRCS Mapped Soils within the Study Area

Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
AsA: Ashkum silty clay loam, 0-2% slopes	Ashkum- Drained	85-100	Ground moraines, end moraines	Yes
	Peotone- Drained	0-9	Depressions on ground moraines	Yes
	Orthents, clayey	0-3	Ground moraines, lake plains	No
	Urban land	0-3	Ground moraines	No
BIA: Blount silt loam, 1-3% slopes	Blount	90	Moraines	No
	Ashkum	10	Depressions	Yes
EsA: Elliott silt loam, 1-3% slopes	Elliott	90	Ground moraines	No
	Ashkum	10	Depressions	Yes
MeB: Markham silt loam, 2-6% slopes	Markham	85-100	Ground moraines, end moraines	No
	Ashkum- Drained	0-9	Ground moraines, end moraines	Yes
	Pewamo	0-6	Ground moraines, end moraines	Yes
OzaB: Ozaukee silt loam, 2-6% slopes	Ozaukee	88-100	Ground moraines, end moraines	No
	Pewamo- Drained	0-7	Drainageways on ground moraines, depressions on ground moraines	Yes
	Ashkum- Drained	0-7	Ground moraines, end moraines	Yes
	Urban land	0-5	Ground moraines	No



Soil symbol: Soil Unit Name	Soil Unit Component	Soil Unit Component Percentage	Landform	Hydric status
OzaB2: Ozaukee silt loam, 2-6% slopes, eroded	Ozaukee- Eroded	88-100	Ground moraines, end moraines	No
	Ashkum- Drained	0-7	End moraines, ground moraines	Yes
	Pewamo- Drained	0-7	Drainageways on ground moraines, depressions on ground moraines	
	Urban land	0-5	Ground moraines	No

Available NAIP imagery of the Study Area from the period of 2004-2020 (Attachment 5) was reviewed for evidence of wetland signatures and to gain insight into the site's recent history. NAIP imagery indicates that both parcels within the study area were row-cropped until at least 2018. In imagery from 2020, both parcels were no longer being cropped. Both parcels were graded to prepare for development in 2020. These areas have remain uncropped in the 2022 and 2024 imagery.

Field data used for wetland determination were collected at two (2) sample points. Their locations are depicted on Figure 7, Attachment 1. Vegetation at the sample point locations was comprised of old field plant communities dominated by Queen Anne's lace (*Daucus carota*, UPL), frost aster (*Symphyotrichum pilosum*, FACU), and reed canary grass (*Phalaris arundinacea*, FACW). Vegetation observed at all sample points failed to satisfy any indicators of hydrophytic vegetation. No field indicators of hydric soils or indicators of wetland hydrology were observed within any sample points.

Based on the results of the wetland determination, no wetlands are present within the limits of the Study Area. These findings concur with the previously performed assured delineation performed in 2014 (Attachment 7).

Heartland recommends that all applicable regulatory agency reviews and permits are obtained prior to beginning work within the Study Area. Heartland can assist with evaluating the need for additional environmental reviews, surveys, or regulatory agency coordination in consideration of the proposed activity and land use as requested but is outside of the scope of the wetland determination.

Experienced and qualified professionals completed the wetland determination using standard practices and professional judgment. Wetland determinations may be affected by conditions present within the Study Area at the time of the fieldwork. All final decisions on wetlands are made by the USACE, the WDNR, and/or sometimes a local unit of government. Wetland determination reviews by regulatory agencies may result in modifications to the findings presented to the Client. These modifications may result from varying conditions between the time the wetland determination was completed and the time of the review. Factors that may influence the findings may include but are not limited to precipitation patterns, drainage modifications, changes or modification to vegetation, and the time of year.



Please feel free to contact me if you have any questions regarding this wetland determination.

Regards,

Eric C. Parker, SPWS Principal Scientist

Heartland Ecological Group, Inc.

eric@heartlandecological.com

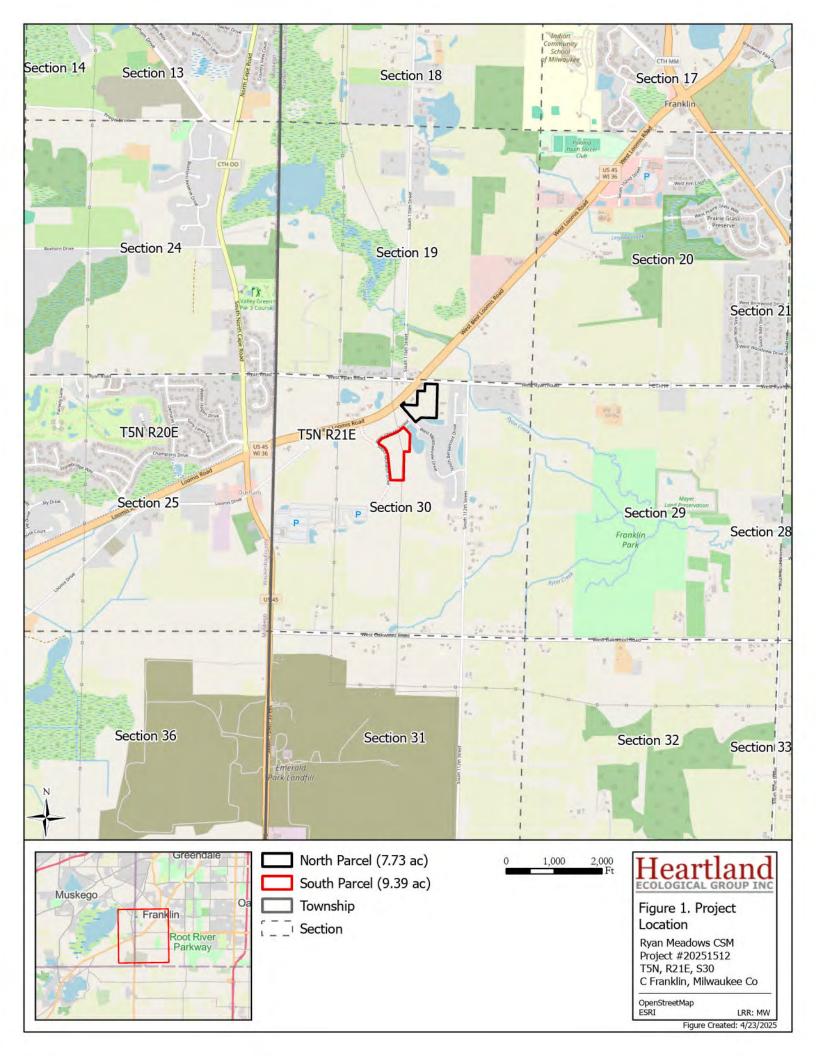
414-380-0269

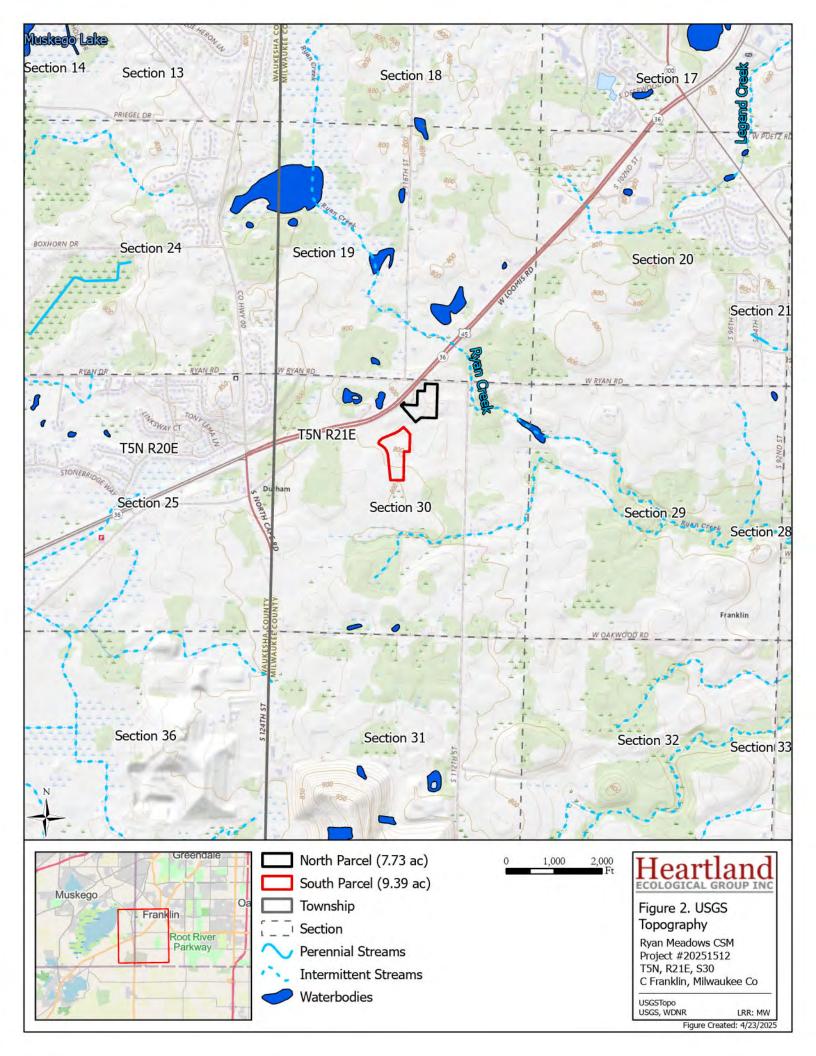
Attachments:

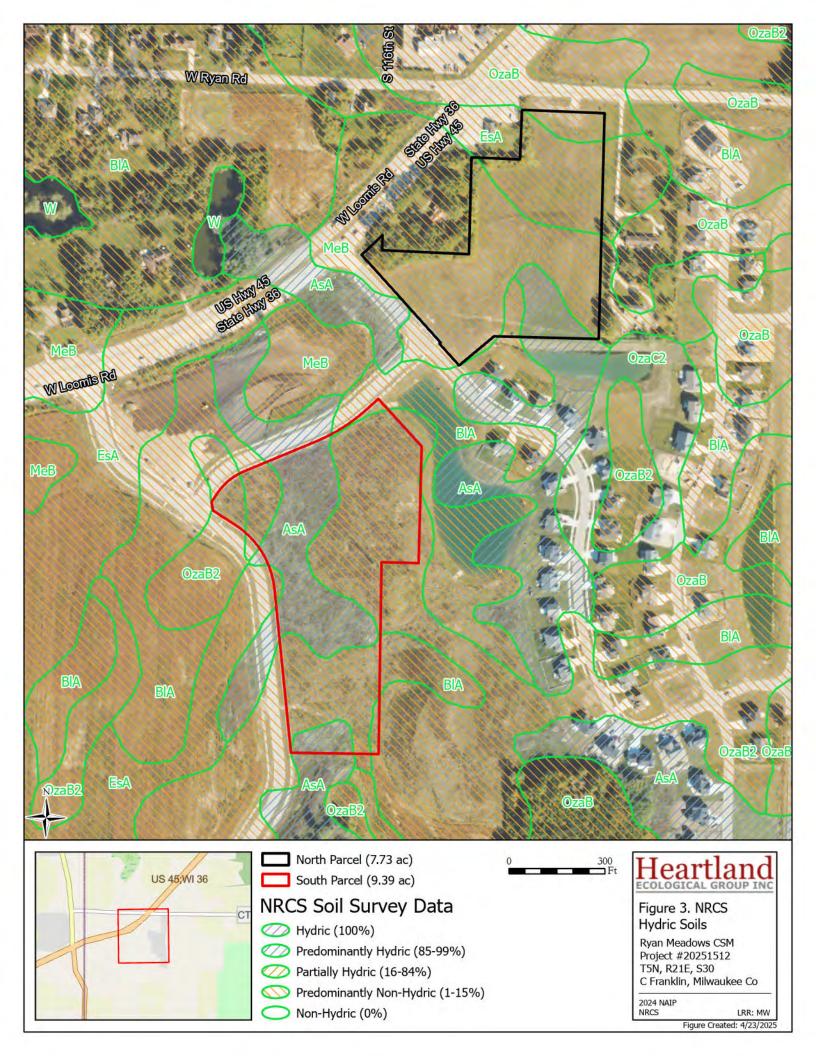
- 1 Figures 1-7
- 2 APT Analysis
- 3 Wetland Determination Data Sheets
- 4 Site Photographs
- 5 NAIP Imagery
- 6 Delineator Qualifications
- 7 RAS 2014 Assured Wetland Delineation Report

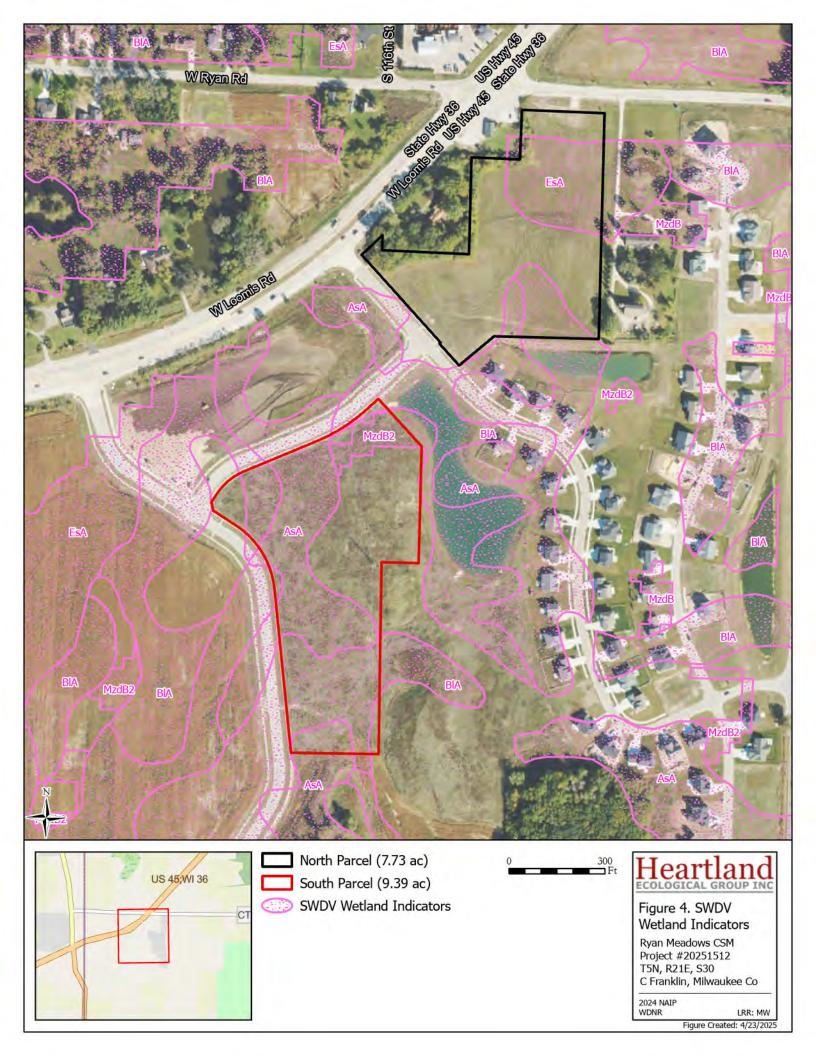


Attachment 1 | Figures













South Parcel (9.39 ac)

Perennial Streams (None in Map Extent)

Intermittent Streams (Non in Map Extent)

Waterbodies

Heartland ECOLOGICAL GROUP INC

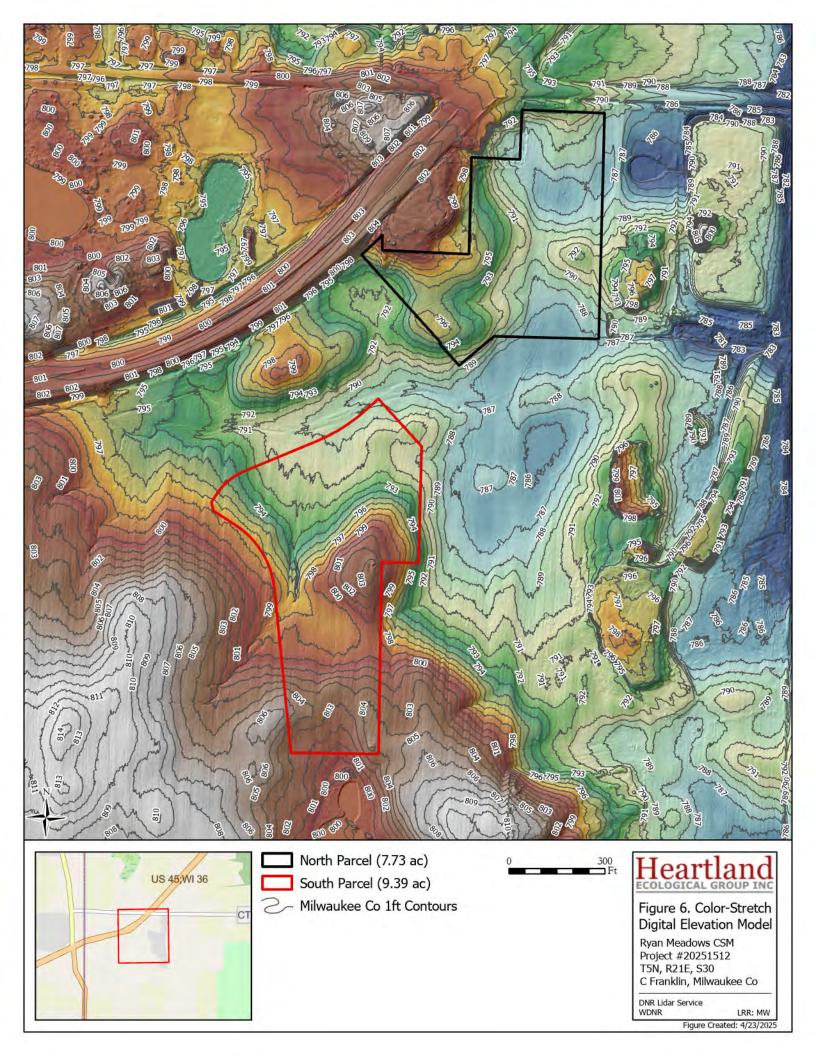
Figure 5. Wisconsin Wetland Inventory

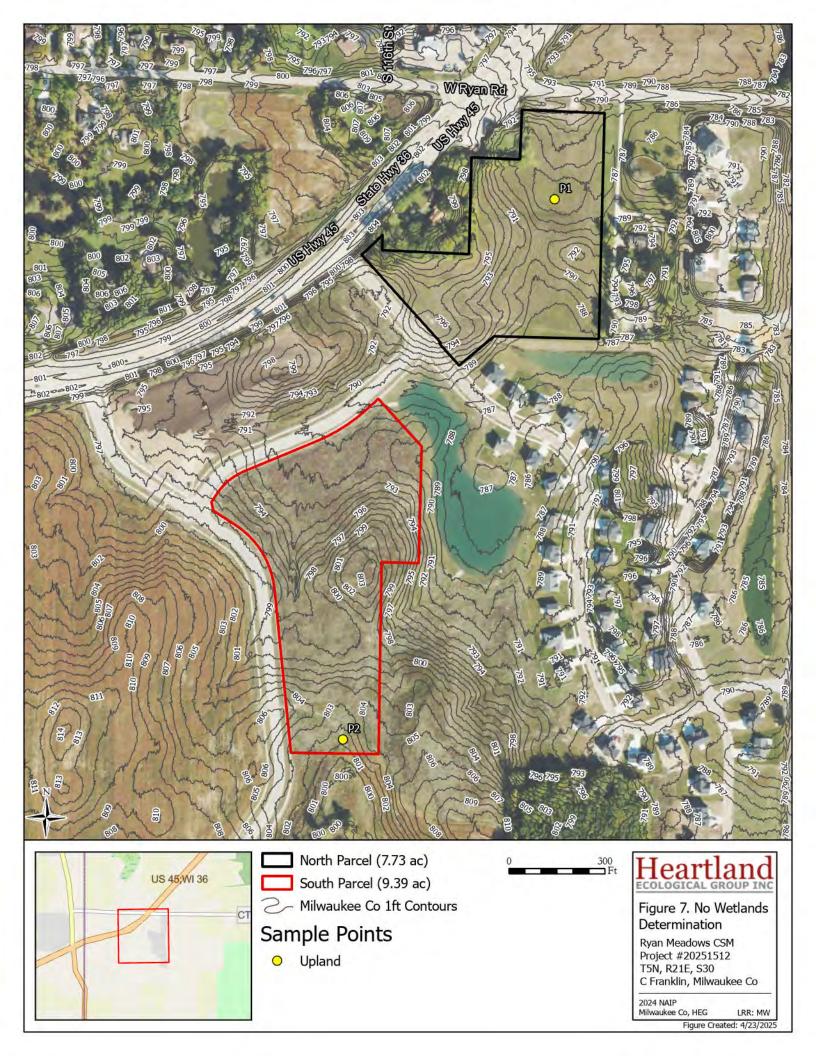
Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2024 NAIP WDNR, USGS

LRR: MW

Figure Created: 4/23/2025

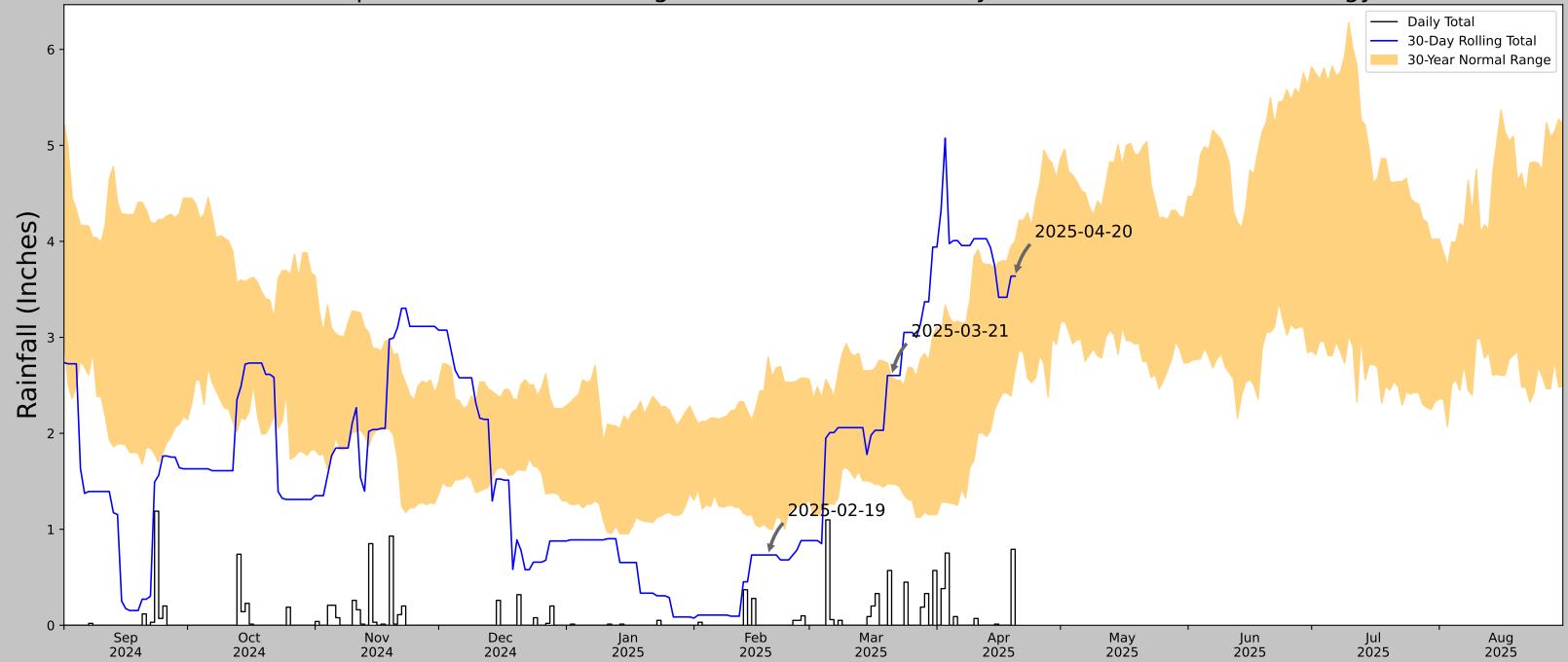






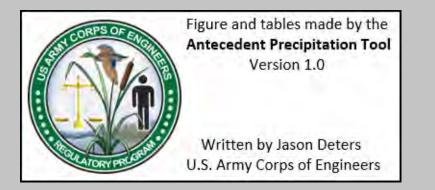
Attachment 2 | APT Analysis

Antecedent Precipitation vs Normal Range based on NOAA's Daily Global Historical Climatology Network



Coordinates	42.871952, -88.057198
Observation Date	2025-04-20
Elevation (ft)	787.506
Drought Index (PDSI)	Mild drought (2025-03)
WebWIMP H ₂ O Balance	Wet Season

30 Days Ending	30 th %ile (in)	70 th %ile (in)	Observed (in)	Wetness Condition	Condition Value	Month Weight	Product
2025-04-20	2.661024	4.002756	3.637795	Normal	2	3	6
2025-03-21	1.468898	2.589764	2.602362	Wet	3	2	6
2025-02-19	1.009055	2.795276	0.732283	Dry	1	1	1
Result							Normal Conditions - 13



Weather Station Name	Coordinates	Elevation (ft)	Distance (mi)	Elevation Δ	Weighted Δ	Days Normal	Days Antecedent
ALES CORNERS/WHITNALL PARK/BO	42.9375, -88.0297	773.95	4.738	13.556	2.196	7268	78
HALES CORNERS 0.7 SE	42.9328, -88.0412	788.058	0.666	14.108	0.309	8	1
GREENDALE 1.5 NW	42.9485, -88.0252	724.081	0.793	49.869	0.396	1	11
HALES CORNERS 0.7 NNE	42.9492, -88.0439	797.9	1.081	23.95	0.512	2	0
GREENFIELD 0.7 SW	42.9559, -88.0151	765.092	1.47	8.858	0.675	2	0
GREENDALE 1.0 ENE	42.9409, -87.9823	801.837	2.409	27.887	1.151	8	0
W ALLIS	42.9981, -88.0242	772.966	4.196	0.984	1.892	2052	0
WEST ALLIS 0.7 SSE	42.998, -88.0238	768.045	4.191	5.905	1.911	2	0
MILWAUKEE MITCHELL AP	42.955, -87.9044	666.995	6.451	106.955	3.593	2010	0



Attachment 3 | Wetland Determination Data Sheets

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

See ERDCEL TR-10-16 to promonent agencois CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Pr⊡ectiSite: 20251512 R⊡an Mead⊡s CSMs		Cit⊡C⊡u	ınt⊡ Mil⊡au⊡	ee C□unt□	Sam⊒ing Date	2025	5-04-21
A⊡licantio ner: Bear De el ⊡ment				State: Wisc⊡nsin	- Sam⊒ing P⊒int	: P1	
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Land □rm (□llside, terrace, etc.): De □ressi □n				c⊡nca⊡e, c⊡n⊡ex, n⊡ne)			
SI□e (□): 0-2 Lat: 42.871952			,	, , ,			
S il Ma Unit Name: Elli it silt I iam, 1 t i 3 iercent sli					i⊈cati⊡n: N⊡ne De	Ticted	
			V /				
Are climatic undrungic conditions on the site total in				N□ (I⊡n□, ex			
Are Vegetati⊡n, S⊡l, ⊡r H⊡dr⊡⊡g□						N⊔	_
Are Vegetation, Sūl, or Hodrolog	naturall□□r□	⊟ematic□ (I⊡needed, ex	ː□ain an□ans□ers in Re	emar⊑s.)		
SUMMARY OF FINDINGS – Attach site m	ap showi	ng samplir	ng point lo	cations, transects	s, important fe	atures	s, etc.
H⊡dr⊡⊐⊡tic Vegetati⊡n Present□ Yes N	□ ✓	Is the	Sampled A	rea			
		withi	n a Wetland	? Yes	No <u>√</u>		
Wetland H⊡dr⊡⊡g□Present□ YesN	□ ✓						
Remar⊑s: APT anal⊡sis indicates climatic c⊡nditi⊡ns are in t⊡e n ⊡etlands.	⊡rmal range.	Re⊡e□ □□20	14 assured d	lelineati⊡n c⊡nûrms t⊡s	⊑arcel still d⊡es ni	īt ⊡a⊡e	
VEGETATION □ Use scientitic names □□□a	ants.						
	A⊡s⊒ute	D⊡minant	Indicat⊡r				
<u>Tree Stratum</u> (Pl⊡t si⊡e: <u>30' radius</u>)	□ C□□er	S⊑ecies□	Status	Dominance Test wo	orksheet:		
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Sa ☐ ing S ☐ ru ☐ Stratum (Pl ☐ t si ☐ e: 15' radius)						
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2. Eriger⊡n canadensis	10	N	FACU	Pre⊡alence Index	= B 🖪 = 4.48		_` ′
3. Taraxacum ⊡icinale	5	N	FACU				
4. Festuca ru⊡ra	5	N	FACU	Hydrophytic Vegeta	tion Indicators:		
5. S:m:::tric:um :il:sum	3	N	FACU	1 - Ra⊡d Test ⊞	r H⊡dr□□□□tic Veg	etati⊡n	
6. Rumex cris □us	3	N	FAC	2 - D⊡minance T			
7				3 - Pre⊡alence Ir			
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10	<u></u>	-Tital Cor-			r□□□□tic Vegetati□	•	•
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2.				Hydrophytic Vegetation			
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SOIL Sam Ing P Int: P1

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lydric Soil Indicators:							Indicat	ors for Prob	lematic Hydric	Soils ³ :
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Histic E⊡⊡ed⊡n (A2)		Sand⊟Red	l⊡x (S5)				Re	d Parent Mat	erial (F21) Ver□	
Blac□Histic (A3)		Stri□⊑ed M	latrix (S	6)			S□	all⊡⊟ Dar⊟Sı	ur⊡ace (F22)	
H⊡dr⊡gen Sulūde (A4)		Dar□Sur∄	ce (S7)				Ot	⊡er (Ex⊟ain ir	n Remar⊡s)	
Strati⊡ed La⊡ers (A5)		L⊑am□Mu								
2 cm Muc□(A10)		L⊑am□Gle	ed Ma	trix (F2)						
De⊟eted Bel□□ Dar□Sur⊡o	e (A11)	De □eted N	∕latrix (F	3)						
T⊡c□Dar□Sur⊡ce (A12)		Red⊡x Dar		` '			3, ,, ,			
Iron Monosulfide (A18)		De ⊟eted □		, ,					⊒⊟tic ⊑egetati⊡r	
Sand□Muc□ Mineral (S1)		Red⊡x De	⊒ressi⊡n	s (F8)					g□must	
—5 cm Muc⊞Peat ☐ Peat (S	•						un	ess distuilled		
estrictive Layer (if observed)	i:									
T⊡e:		_						10		
T⊡e: De⊡t□ (inc⊡es):		<u></u>				Hydric So	il Prese	ent?	Yes	No_
T⊡e: De⊡t⊡ (inc⊡es): Remar⊡s:						Hydric So	il Prese	ent?	Yes	No_
T □ e: De □ t□ (inc □ es): Remar □ s:						Hydric So	il Prese	ent?	Yes	No_
T =: De t (inc es): Remar s: YDROLOGY Vetland Hydrology Indicators						Hydric So				
T =: De t (inc es): Remar s: YDROLOGY Vetland Hydrology Indicators Primar Indicat s (minimum						Hydric So	Sec⊡no	dar⊡Indicat⊡r	s (minimum □⊐t	
T =: De t (inc es): Remar s: YDROLOGY Vetland Hydrology Indicators rimar Indicat s (minimum suriace Water (A1)		Water-Stai	ined Lea	` '		Hydric So	<u>Sec⊡nc</u> Sui	dar⊡Indicat⊡: rīace S⊡l Cra	s (minimum ⊡t ac⊡s (B6)	
T =: De t (inc es): Remar s: YDROLOGY Vetland Hydrology Indicators rimar Indicat s (minimum == Sur ace Water (A1) Hig Water Ta le (A2)		Water-Stai A⊡uatic Fa	ined Lea una (B1	3)		Hydric So	Sec⊡no Sui Dra	dar□Indicat⊡ rāce S⊡l Cra ainage Patteri	s (minimum ⊡t ac⊡s (B6) ns (B10)	
T =: De t (inc es): Remar s: YDROLOGY Vetland Hydrology Indicators rimar Indicaters (minimum == Sur ace Water (A1) Hig Water Ta = (A2) Saturati = (A3)		Water-Stai A□uatic Fa True A□ua	ined Lea iuna (B1 tic Plant	3) s (B14)		Hydric So	Sec⊡nc Sul Dra	dar⊡Indicat⊡: rīace S⊡l Cra ainage Patteri ⊋Seas⊡n Wa	s (minimum ⊡t ac⊡s (B6) ns (B10) ter Ta⊡e (C2)	
T =: De t (inc es): Remar s: YDROLOGY Vetland Hydrology Indicators rimar Indicat s (minimum == Sur ace Water (A1) Hig Water Ta = (A2) Saturati = (A3) Water Mar s (B1)		Water-Stai A⊡uatic Fa True A⊡ua H⊡dr⊡gen	ined Lea una (B1 tic Plant Sulūde (3) s (B14) Od⊡r (C1			Sec Inc Sur Dra Dri Cra	dar⊡Indicat⊡r rāce S⊡l Cra ainage Patter ⊒Seas⊡n Wa a⊡is⊟Burr⊡	s (minimum □t acଢs (B6) ns (B10) ter Ta⊟e (C2) s (C8)	□□re⊡ui
T =: De t (inc es): Remar s: PyDROLOGY Vetland Hydrology Indicators rimar Indicat s (minimum == Sur ace Water (A1) Hig Water Ta = (A2) Saturati (A3) Water Mar (B1) Sediment De sits (B2)		Water-Stai A□uatic Fa True A□ua H□dr□gen Oxidi□ed F	ined Lea auna (B1 tic Plant Sultide (3) s (B14) Od⊡r (C1 ⊡eres ⊡n I	_i⊡ng R		Sec⊡no Sul Dra Dra Cra	dar□Indicat⊡ rāce S⊡l Cra ainage Patteri ⊋Seas⊡n Wa a⊡is⊟ Burr⊡ turati⊡n Visi⊡	s (minimum ⊡t ac⊡s (B6) ns (B10) ter Ta⊡e (C2) s (C8) le ⊡n Aerial Ima	□□re□ui
T =: De t (inc es): Remar s: PYDROLOGY Wetland Hydrology Indicators rimar Indicat s (minimum = Sur ace Water (A1) Hig Water Ta = (A2) Saturati (A3) Water Mar (B1) Sediment De sits (B2) Drift De sits (B3)		Water-Stai A□uatic Fa True A□ua H□dr□gen Oxidi□ed F	ined Lea auna (B1 tic Plant Sul ide (R⊐⊡s⊐ □⊏Redu	3) s (B14) Od⊡r (C1) ⊡eres ⊡n l ced Ir⊡n (_i⊡ng R C4)	□ts (C3)	Sec⊡no Sul Dra Dri Cra Sa' Stu	dar⊡Indicat⊡ rāce S⊡l Cra ainage Patteri ⊒-Seas⊡n Wa a⊡is⊟ Burr⊡ turati⊡n Visi⊟ unted ⊡r Stres	s (minimum □t ac s (B6) ns (B10) ter Ta le (C2) s (C8) le ln Aerial Ima ssed Plants (D1)	□□re□ui
T = : De t (inc es): Remar :: YDROLOGY Vetland Hydrology Indicators Primar Indicat rs (minimum = Sur ace Water (A1) Hig Water Ta = (A2) Saturati (A3) Water Mar = (B1) Sediment De = sits (B2) Drift De = sits (B3) Algal Mat = Crust (B4)		Water-Stai A □uatic Fa True A □ua H □dr □gen Oxidi □ed F Presence Recent Ir□	ined Lea auna (B1 tic Plant Sulūde (R⊐⊡s⊐ □⊏Redud n Redud	3) s (B14) Od⊡r (C1) ⊡eres ⊡n I ced Ir⊡n (cti⊡n in Ti	_i⊡ng R C4)	□ts (C3)	Sec nc Sur Dra Dri Cra Sar Stu	dar□Indicat⊡: rīace S⊡l Cra ainage Patteri ⊒Seas⊡n Wa a⊡is□Burr⊡ turati⊡n Visi⊡ unted ⊡r Stres □m⊡r⊡ic P⊡	s (minimum □t acଢs (B6) ns (B10) ter Ta⊡e (C2) s (C8) le ⊡n Aerial Ima ssed Plants (D1) siti⊡n (D2)	□□re□ui
T =: De t (inc es): Remar s: PyDROLOGY Vetland Hydrology Indicators rimar Indicat s (minimum = Sur ace Water (A1) Hig Water Ta e (A2) Saturati (A3) Water Mar (B1) Sediment De sits (B2) Drift De sits (B3) Algal Mat r Crust (B4) Ir n De sits (B5)	<u>⊡ne is re⊡u</u>	Water-Stai A□uatic Fa True A□ua H□dr□gen Oxidi□ed F Presence Recent Ir□	ined Lea iuna (B1 tic Plant Sulīde (R⊟⊡s⊟ ⊡Reduc in Reduc	3) ss (B14) Od (C1) Deres (In In Ced Ir (In In Ti	_i⊡ng R C4)	□ts (C3)	Sec nc Sur Dra Dri Cra Sar Stu	dar⊡Indicat⊡ rāce S⊡l Cra ainage Patteri ⊒-Seas⊡n Wa a⊡is⊟ Burr⊡ turati⊡n Visi⊟ unted ⊡r Stres	s (minimum □t acଢs (B6) ns (B10) ter Ta⊡e (C2) s (C8) le ⊡n Aerial Ima ssed Plants (D1) siti⊡n (D2)	□□re□ui
T =: De t (inc es): demar s: PAPOLOGY Vetland Hydrology Indicators rimar Indicat rs (minimum == Sur ace Water (A1) Hig Water Ta == (A2) Saturati == (A3) Water Mar == (B1) Sediment De == sits (B2) Drift De == sits (B3) Algal Mat == Crust (B4) Ir == De == sits (B5) Inundati == Narial	<u>⊡ne is re⊡u</u> Imager⊟(B	Water-Stai A□uatic Fa True A□ua H□dr□gen Oxidi□ed F Presence Recent Ir□ T□in Muc□ 7) Gauge □r N	ined Lea iuna (B1 tic Plant Sultide (R∷issi Redud n Redud Surtace Well Dat	3) ss (B14) Od (C1) Geres (In I) ced Ir (In (in Ti e (C7) sa (D9)	_i⊡ng R C4)	□ts (C3)	Sec nc Sur Dra Dri Cra Sar Stu	dar□Indicat⊡: rīace S⊡l Cra ainage Patteri ⊒Seas⊡n Wa a⊡is□Burr⊡ turati⊡n Visi⊡ unted ⊡r Stres □m⊡r⊡ic P⊡	s (minimum □t acଢs (B6) ns (B10) ter Ta⊡e (C2) s (C8) le ⊡n Aerial Ima ssed Plants (D1) siti⊡n (D2)	□□ re □ui
T =: De t (inc es): Remar s: PyDROLOGY Vetland Hydrology Indicators rimar Indicat s (minimum = Sur ace Water (A1) Hig Water Ta e (A2) Saturati (A3) Water Mar (B1) Sediment De sits (B2) Drift De sits (B3) Algal Mat crust (B4) Ir n De sits (B5) Inundati vegetated C nca	<u>⊡ne is re⊡u</u> Imager⊟(B	Water-Stai A□uatic Fa True A□ua H□dr□gen Oxidi□ed F Presence Recent Ir□ T□in Muc□ 7) Gauge □r N	ined Lea iuna (B1 tic Plant Sultide (R∷issi Redud n Redud Surtace Well Dat	3) ss (B14) Od (C1) Geres (In I) ced Ir (In (in Ti e (C7) sa (D9)	_i⊡ng R C4)	□ts (C3)	Sec nc Sur Dra Dri Cra Sar Stu	dar□Indicat⊡: rīace S⊡l Cra ainage Patteri ⊒Seas⊡n Wa a⊡is□Burr⊡ turati⊡n Visi⊡ unted ⊡r Stres □m⊡r⊡ic P⊡	s (minimum □t acଢs (B6) ns (B10) ter Ta⊡e (C2) s (C8) le ⊡n Aerial Ima ssed Plants (D1) siti⊡n (D2)	□□re□ui
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T = : De t (inc es): Remar s: YDROLOGY Vetland Hydrology Indicators Primar Indicat rs (minimum = Sur ace Water (A1) Hig Water Ta = (A2) Saturati (A3) Water Mar (B1) Sediment De sits (B2) Drift De sits (B3) Algal Mat r Crust (B4) Ir De sits (B5) Inundati visi e n Aerial Sarsel vegetated C nca	<u>Ine is re⊡u</u> Imager□(B e Sur ī ace (Water-Stai A□uatic Fa True A□ua H□dr□gen Oxidi□ed F Presence Recent Ir□ T□in Muc□ 7) Gauge □r \ B8) Ot□er (Ex□	ined Lea iuna (B1 tic Plant Sul'ide (Reduc Reduc in Reduc i Sur'ace Well Dat Jain in F	3) ss (B14) Od (C1) eres in I ced Ir (n (cti (n in Ti e (C7) a (D9) Remar(s)	_i⊡ng R C4)	□ts (C3)	Sec nc Sur Dra Dri Cra Sar Stu	dar□Indicat⊡: rīace S⊡l Cra ainage Patteri ⊒Seas⊡n Wa a⊡is□Burr⊡ turati⊡n Visi⊡ unted ⊡r Stres □m⊡r⊡ic P⊡	s (minimum □t acଢs (B6) ns (B10) ter Ta⊡e (C2) s (C8) le ⊡n Aerial Ima ssed Plants (D1) siti⊡n (D2)	□□re□uil ger□(C9
T = : De t (inc es): Remar s: YDROLOGY Wetland Hydrology Indicators Primar Indicat rs (minimum = Sur ace Water (A1) Hig Water Ta = (A2) Saturati (A3) Water Mar (B1) Sediment De sits (B2) Drift De sits (B3) Algal Mat r Crust (B4) Ir De sits (B5) Inundati visi e n Aerial Sarsel vegetated C nca = Sur ace Water Present years year	Imager□(B e Surace (es es	Water-Stai A□uatic Fa True A□ua H□dr□gen Oxidi□ed F Presence Recent Ir□ T□in Muc□ 7) Gauge □ N B8) Ot□er (Ex□	ined Lea iuna (B1 tic Plant Sultide (Rci ⊞s ⊞ Reduc in Reduc il Surlace Well Dat ⊒ain in F	3) ss (B14) Od⊡r (C1) eres □n I ced Ir□n (cti□n in Ti e (C7) sa (D9) Remar□s) nc□es): _ nc□es): _	_i⊡ng R C4)	□ ts (C3) s (C6)	Second Sull Dra Cra Sal Stu Ge FA	dar□Indicat⊡: rāce S⊡l Cra ainage Patteri -Seas⊡n Wa a ⊡is □ Burr □ turati⊡n Visi⊡ unted □r Stres □m □r □ □ ic P □: C-Neutral Te:	s (minimum □t ac s (B6) ns (B10) ter Ta le (C2) s (C8) le ln Aerial Ima ssed Plants (D1) siti n (D2) st (D5)	□□re□uii ger□(C9
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ENG FORM 6116-7, SEP 2024 Mid □est □ Versi □n 2.0

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

See ERDCEL TR-10-16 to promonent agencois CECW-COR

OMB Control #: 0710-0024, Exp: 09/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Pr⊡ectiSite: 20251512 R⊡an Mead⊡s CSMs		Cit⊡C⊡u	ınt⊡ Mil⊟au⊡	ee C□unt□	Sam⊒ing Date:	2025-04	4-21
A □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □				State: Wisc⊡nsin	Sam⊡ing P⊡nt:	P2	
In estigat (s): Eric C Par er, SPWS		Secti⊡n, ⁻	T⊟⊟ns⊡⊒ Ra	nge: sec 30 T005N R0)21E		
Land □rm (□llside, terrace, etc.): Sidesl □e				:⊑nca⊑e, c⊡n⊑ex, n⊡ne):			
Sloe (a): 3-7 Lat: 42.867031					Datum: WGS84		
Sil Ma Unit Name: As the silt cla I am, 0 to 2 to	rcont cl⊡⊏oc		00.000010		icati⊡n: N⊡ne De⊡	ictod	
						icieu	
Are climatic □□□dr□□gic c□nditi□ns □n t□e site t□□ical □				N□ (I□n□, ex			
Are Vegetation, Soil, or Hodrologo						l	
Are Vegetati⊡n, S⊡l, □r H⊡dr□□g□	naturall□□r□	□ematic□ ((I⊡needed, ex	□ain an□ans□ers in Re	mar⊑s.)		
SUMMARY OF FINDINGS – Attach site m	ap showii	ng samplir	ng point lo	cations, transects	, important fea	atures, (etc.
H⊡dr⊡⊐⊒tic Vegetati⊡n Present□ Yes N	□ ✓	Is the	e Sampled Aı	rea			
		withi	n a Wetland?	Yes	No <u>√</u>		
Wetland H⊡dr⊡⊡g□Present□ YesN	□ <u>√</u>						
Remar⊑s: APT anal⊡sis indicates climatic c⊡nditi⊡ns are in t⊡e n □etlands.	⊡rmal range.	Re⊡e□ □□20)14 assured d	elineati⊡n c⊡nûrms t⊡s	□arcel still d⊡es n⊡	t ⊡a⊡e	
VEGETATION □ Use scientific names □□□a	ınts.						
	A⊡s⊒ute	D⊡minant	Indicat⊡r				
<u>Tree Stratum</u> (Pl⊡t si⊡e: <u>30' radius</u>)	□ C□⊑er	S⊡ecies□	Status	Dominance Test wo	rksheet:		
1.				Num er Deminant		4 /	
2				Are OBL, FACW, □r F		1 (/	A)
3				T⊡tal Num⊡er □□D□m Acr⊡ss All Strata:	inant S⊡ecies	3 (1	B)
5.						(I	B)
J	0	=T⊡tal C□⊑er		Percent □□D□minant Are OBL, FACW, □r F		33.33 (/	АВ)
<u>Sa⊡ingเS⊡ru⊡ Stratum</u> (PI⊡t si⊡e: 15' radius							,
1.	,			Prevalence Index wo	orksheet:		
2.				T⊡tal □ C□⊡er □	□ Multi□		
3.				OBL s⊡ecies 0	x 1 =	0	
4.				FACW s⊡ecies 2	0 x 2 =	40	
5				FAC s⊡ecies3	3 x 3 =	9	
	0	=T⊡tal C□⊡er		FACU s⊡ecies4	0 x 4 =	160	
<u>Her□Stratum</u> (Pl⊡t si⊡e: <u>5' radius</u>)				UPL s⊡ecies 2		100	
1. DAUCUS CAROTA	20	<u> </u>	<u>UPL</u>			09.00 (I	B)
2. Similaricium illisum	15	<u>Y</u>	FACU	Pre ⊑alence Index	= BIA = <u>3.72</u>		
3. PHALARIS ARUNDINACEA	15	Y	FACW	Under physic Venete	tion Indicators		
4. S⊟idag⊟ canadensis	10	N	FACU	Hydrophytic Vegeta	tion indicators: r H⊑dr⊒⊒⊒⊒tic Vege	stati⊡n	
5. Taraxacum ⊡icinale 6. Festuca ru⊡ra	<u>7</u> 5	N	FACU	2 - D⊡minance Te	•	:tati 🗆 i	
7. Juncus dudle 🗆	5	N	FACU FACW	3 - Pre alence In			
8. Eriger⊡n canadensis	3	N	FACU		l Ada⊑tati⊡ns¹ (Pr□	⊑ide su□□	⊡rtina
9. Rumex cris ☐us	3	N	FAC		_s ⊡r ⊡n a se⊡arate		3
10.				Pr⊡⊒ematic H⊡dr	⁻□□□tic Vegetati⊡n	ı¹ (Ex⊟ain	1)
	83.0	=T⊡tal C⊡er		 ¹Indicat⊡rs □□□⊡dric s	•	•	•
<u>W □ d □ Vine Stratum</u> (Pl □t si □e: <u>30' radius</u>)			□e □resent, unless dis			
1.				Hydrophytic			
2				Vegetation			
	0	=T⊡tal C⊡⊑er		Present? Yes	No <u>√</u>		
Remar⊑s: (Include □□□t□ num⊡ers □ere □r □n a se□a	rate s⊡eet.)						

SOIL Sam ling P int: P2

(inc⊡es)	0 1 :								
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0-12	10YR 31	100				SIL	N□red□x		
12-16	10YR 21	100				SIL	N□red□x		
16-20	2.5Y 2.5	100				SICL	N□red□x		
20-24	2.5Y 41	100				SIC	N□red□x		
		e⊒eti⊡n, RM	I=Reduced Matrix	., MS=Mas⊡ed S	Sand Grains		cati⊡n: PL=P⊡re l		
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— Histic E⊡⊡	,			Red⊡x (S5)	(4)		_ II	, ,	
Blac□Histic				l Matrix (S6)			_Red Falent Mate _S⊑all□□ Dar□Sul	, ,	
—_H⊡dr⊡gen S	` ,			race (S7)			_Ot⊡er (Ex⊟ain in	` '	
Stratited La				≀шоо (о≀) Иuc⊞Mineral (F	F1)		_ 0 1201 (2/124111 111		
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Iron Monos	sulfide (A18)		 De⊟eted	d Dar⊡Sur⊡ace ((F7)	³ Inc	dicat⊡rs □□□□dr□□	⊒⊑tic ⊑egetati⊡n	and
Sand□Muc	c⊞Mineral (S1)	Red⊡x D	De⊡ressi⊡ns (F8))		□etland □⊡dr□□g		ent,
—5 cm Muc□	□Peat □r Peat	(S3)					unless distur⊡ed	□r □r□□lematic.	
	ver (if observe	ed):							
Restrictive Lay	, or (11 oppoint								
Restrictive Lay		<i>/</i> -							
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ENG FORM 6116-7, SEP 2024 Mid □est □ Versi □n 2.0



Attachment 4 | Site Photographs



Photo #1 Sample point P1



Photo #3 Sample point P1



Photo #5 Sample point P2



Photo #2 Sample point P1



Photo #4 Sample point P1



Photo #6 Sample point P2



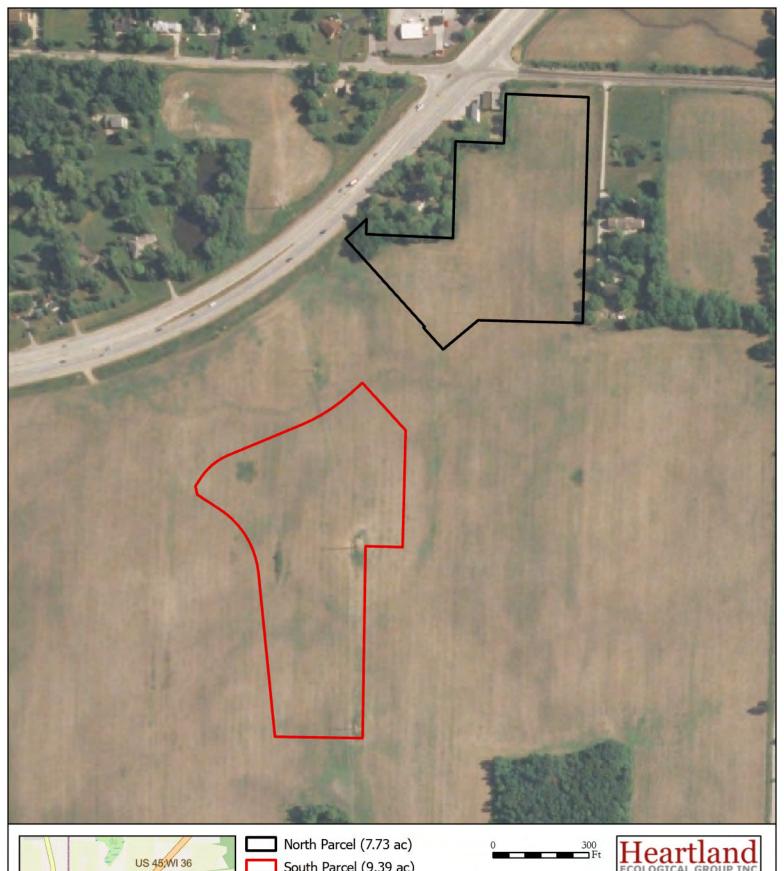
Photo #7 Sample point P2



Photo #8 Sample point P2



Attachment 5 | NAIP Imagery





2005-06-16 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2005 NAIP USDA





2006-06-12 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2006 NAIP USDA





North Parcel (7.73 ac)
South Parcel (9.39 ac)



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2008-07-05 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2008 NAIP USDA





Heartland ECOLOGICAL GROUP INC

2010-06-28 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2010 NAIP USDA

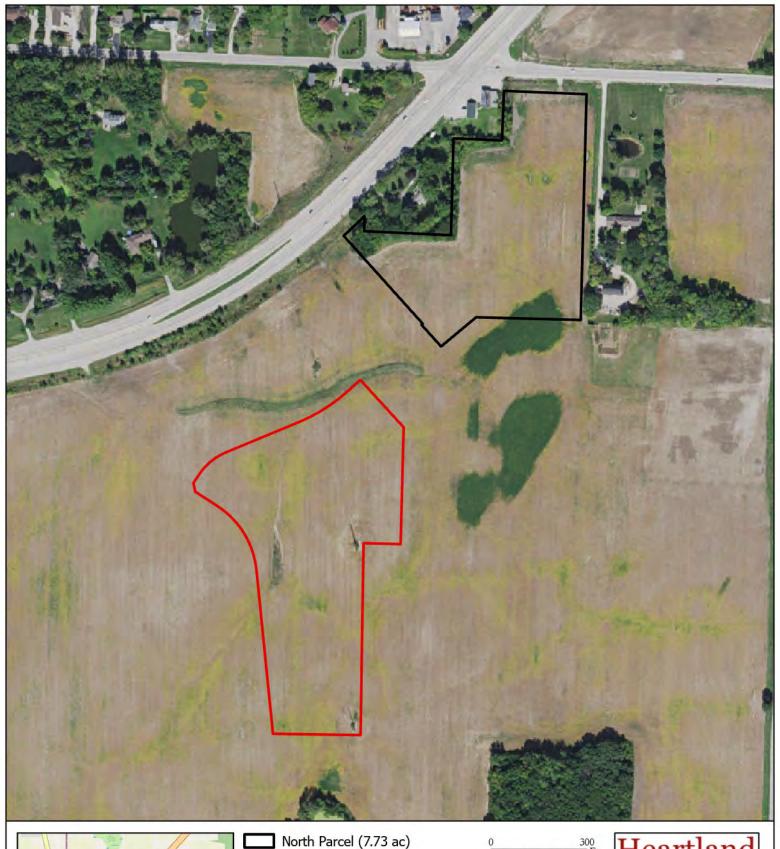




2013-06-24 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2013 NAIP USDA



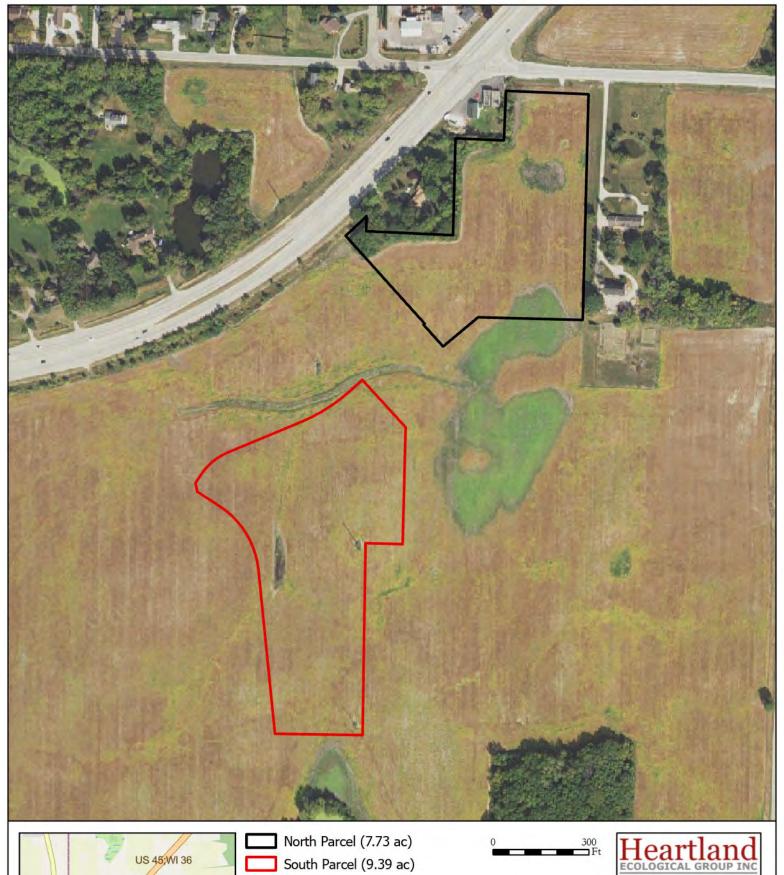




2015-09-22 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2015 NAIP USDA

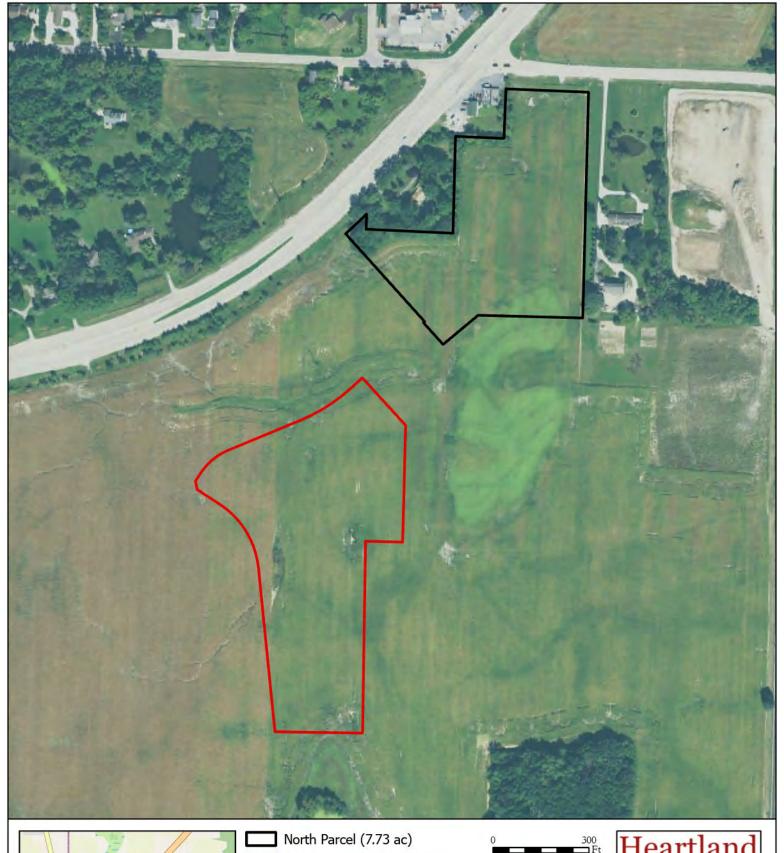




2017-09-23 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2017 NAIP USDA







2018-09-14 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2018 NAIP USDA







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2020-07-24 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2020 NAIP USDA







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2022-06-23 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2022 NAIP USDA





Heartland ECOLOGICAL GROUP INC

2024-10-02 NAIP Aerial Imagery

Ryan Meadows CSM Project #20251512 T5N, R21E, S30 C Franklin, Milwaukee Co

2024 NAIP USDA



Attachment 6 | Delineator Qualifications

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1027 W. Saint Paul Avenue
Milwaukee WI 53233

Tony Evers, Governor Karen Hyun, Ph.D., Secretary

Telephone 608-266-2621 Toll Free 1-888-936-7463 TTY Access via relay - 711



April 1, 2025

Eric Parker, SPWS, CWS Heartland Ecological Group, Inc. 4821 Elm Island Circle Waterford, WI 53185

Subject: 2025 Assured Wetland Delineator Confirmation

Dear Eric Parker:

This letter provides Wisconsin Department of Natural Resources (WDNR) confirmation for the wetland delineations you conduct during the 2025 growing season. You and your clients will not need to wait for the WDNR to review your wetland delineations before moving forward with project planning. This will help expedite the review process for WDNR's wetland regulatory program. Your name and contact information will continue to be listed on our website at: http://dnr.wi.gov/topic/wetlands/assurance.html.

In the instance where a municipality may require a letter of confirmation for your work prior to moving forward in the local regulatory process, this letter shall serve as that confirmation. Although your wetland delineations do not require WDNR field review, inclusion of a Wetland Delineation Report is required for projects needing State authorized wetland, waterway and/or storm water permit approvals.

To comply with Chapter 23.321, State Statutes, please supply the department with a polygon shapefile of the wetland boundaries delineated within the project area. Please do not include data such as parcel boundaries, project limits, wetland graphic representation symbols, etc. If internal upland polygons are found within a wetland polygon, then please label as UPLAND. The shapefile should utilize a State Plane Projection and be overlain onto recent aerial photography. If a different projection system is used, please indicate in which system the data are projected. In the correspondence sent with the shapefile, please supply a brief description of each wetland's plant community (eg: wet meadow, floodplain forest, etc.). Please send these data to Calvin Lawrence (608-266-0756 or email at calvin.lawrence@wisconsin.gov).

If you or any client has a question regarding your status in the Wetland Delineation Professional Assurance Program, contact me by email at kara.brooks@wisconsin.gov or phone at 414-308-6780. Thank you for all your hard work and best wishes for the upcoming field season.

Sincerely,

Kara Brooks

Wetland Identification Coordinator Bureau of Watershed Management





Eric C. Parker, SPWS **Principal Scientist**

4821 Elm Island Circle, Waterford, WI 53185 eric@heartlandecological.com (414) 380-0269



Eric is a Senior Professional Wetland Scientist and Professionally Assured Wetland Delineator in Wisconsin with 35 years of experience assisting public and private clientele. He has completed wetland projects in other states including IL, IN, OH, MI, ND, MO, PA, TX, MD, VA, and NC. His work has supported thousands of institutional, commercial, utility, residential, industrial & transportation projects. Eric's natural resource specialties include botanical surveys, wetland science, restoration and mitigation, and environmental corridor mapping. He has a widespread understanding of the scientific, technical, and regulatory aspects of natural resources projects. His interests also include floristic quality assessment (FQA) and wetness categorization of plant species.

Eric's experience includes the following: Botanical / Biological Surveys and Natural Resource Inventories; Rare Species Surveys, Conservation Plans and Monitoring; Wetland Determination, Delineation and Functional Assessment; Wetland Exemptions; Environmental Corridor Determinations/Mapping; Wetland Restoration, Mitigation, Banking and Monitoring; Habitat Restoration, Wildlife Surveys, SCAT surveys, Environmental Assessments; Local, state, federal permit applications; Expert Witness testimony; and Regulatory permit compliance.

Education

Wetland Ecosystems (including delineation & assessment), USEPA Graduate School, Washington DC, 1988

US Army Terrain Analysis Course, Distinguished Graduate, Defense Mapping School, Fort Belvoir, VA, 1984

BS, Watershed Management, Soils Minor, University of Wisconsin - Stevens Point, Stevens Point, WI, 1983

Certifications and Licensing

Senior Professional Wetland Scientist #838, Society of Wetland Scientists Professional Certification Program, 1995 - present

Certified Wetland Scientist #C-058, Stormwater Management Commission Lake County, IL, 2002 present

Qualified Wetland Review Specialist #W-057, Kane County, IL, 2006 - present

Professional Development

Critical Methods in Wetland Delineation, University of Wisconsin - La Crosse Continuing Education and Extension, Madison, WI, 2006, 2008, 2010, 2014, 2016-2022

Sedges ID & Ecology, University of Wisconsin -Milwaukee, Cedarburg Bog Field Station, Saukville, WI, 2002, 2006, 2010

Advanced Wetland Delineation, University of Wisconsin - La Crosse, Bayfield County, WI, 2001

Vegetation Description, University of Wisconsin -Milwaukee, Cedarburg Bog Field Station, Saukville, WI,

Mosses ID & Ecology, University of Wisconsin -Milwaukee, Cedarburg Bog Field Station, Saukville, WI,

Grasses ID & Ecology, University of Wisconsin -Milwaukee, Cedarburg Bog Field Station, Saukville, WI, 1998

Basic Wetland Delineation Training, Wisconsin Department of Administration, Waukesha, WI, 1997

Field Oriented Wetland Delineation Course (1987 Corps Manual), Wetlands Training Institute (WTI), St. Paul, MN, 1994

Project Experience

Wetland Delineation & Regulatory Support

2022 Wetland Delineations, Exemption Submittals, and Permitting (104 sites)

Capitol Dr Property, Waukesha Co., WI (Jan); Puetz Rd Property, Milwaukee Co., WI (Jan); Glas Driveway Wetlands and GP, Kenosha Co., (Mar); 19555 W Lincoln Ave GP, Waukesha Co., WI (Mar); Northern Oaks Subd GP-AWER, Waukesha Co., WI (Mar); Workman Properties, Waukesha Co., WI (Apr); 5732 W Rawson Av, Milwaukee Co., WI (Apr); 2705 West Rd, Racine Co., WI (Apr); CTH CW Site, Dodge Co., WI (Apr); 4-Mile Rd Property, Racine Co., WI (Apr); Kurtze Ln Property, Waukesha Co., WI (Apr); 128th St Parcel, Kenosha Co., WI (Apr); Thomas Property Wetlands-PEC-Navigability, Waukesha Co., WI (Apr); Ament Property, Racine Co., WI (Apr); W3970 South Shore Dr, Walworth Co., WI (Apr); N2280 Temperance Tr, Walworth Co., WI (Apr); S Clark St Parcel, Dodge Co., WI (Apr); Deer Haven GC, Waukesha Co., WI (May); Petrie Rd 7.5 Ac Parcel, Walworth Co., WI (Apr); 5.5Ac Parcel Mukwonago, Waukesha Co., WI (Apr); S107 W16311 Loomis Rd Parcel, Waukesha Co., WI (Apr); CTH A & USH 12 Property, Walworth Co., WI (Apr); Cape Crossing NFE, Milwaukee Co., WI (Apr); Teipner Parcel, Waukesha Co., WI (Apr); Lichner Parcel, Waukesha Co., WI (Apr); Biocut Systems Site AWER, Waukesha Co., WI (Apr); Spring St Parcels, Racine Co., WI (May); US41 Corridor, Waukesha Co., WI (Apr); Reddelien Rd Parcel, Waukesha Co., WI (May); Watertown Rd Property, Waukesha Co., WI (May); 10027 Camelot Dr, Racine Co., WI (May); Koller Property, Ozaukee Co., WI (May); Altschaefl Property, Waukesha Co., WI (May); Pipito Property Pond, Dodge Co., WI (May); Kenora Rd Parcels, Waukesha Co., WI (May); Moorland & Greenfield Wetlands-AWER, Waukesha County, WI (May); Alliant Edgewater GS, Sheboygan Co., WI (May); Arbet North Parcel, Kenosha Co., WI (May); Pleasant Prairie Police Station, Kenosha Co., WI (May); 3rd Ave Pleasant Prairie Site, Kenosha Co., WI (May); 10766 N Torrey Dr Property, Ozaukee Co., WI (Jun); Kolnik Parcel, Kenosha Co., WI (Jun); Gateway Dr Watertown, Jefferson Co., WI (Jun); Green Bay Gardens Site, Kenosha Co., WI (Jun); DuCharme Property Wetlands-PEC, Waukesha Co., WI (Jun); 2301 Lakeshore Dr. GP-Tree Survey, Ozaukee Co., WI (Jun); 641 Drexel Wetlands-GP, Milwaukee Co., WI (Jun); Quigley Farm, Washington Co., WI (Jun); Big Bend Business Park, Waukesha Co., WI (Jun); Lad Lake Property, Waukesha Co., WI (Jun); Pleasant Prairie PP Utility Corridor, Kenosha Co., WI (Jul); Pleasant Prairie Fire Station 3, Kenosha Co., WI (Jul); CTH H Parcels, Walworth Co., WI (Jul); Oakwood Rd Parcels, Milwaukee Co., WI (Jul); Big Bend Rd Property, Waukesha Co., WI (Jul); Heartland Communities, Racine Co., WI (Jul); Leo Living Bristol Wetlands-PEC, Kenosha Co., WI (Jul); Stream Conservation Union Grove, Racine Co., WI (Jul); 8979 S 42nd St Franklin, Milwaukee Co., WI (Jul); 2205 Silvernail Rd, Waukesha Co., WI (Jul); East Wolf Run Mukwonago, Waukesha Co., WI (Jul); 1302 Roundtable Dr, Racine Co., WI (Jul); Corporation Parcel Dover, Racine Co., WI (Jul); 11925 W Lake Park Dr, Milwaukee Co., WI (Jul); 17905 W Capitol Dr Parcel, Waukesha Co., WI (Jul); Mosconi West Property, Kenosha Co., WI (Jul); Promise Builders Site, Kenosha Co., WI (Jul); Highland Dr Menomonee Falls Botanical Survey, Waukesha Co., WI (Aug); METRO RDF Expansion, Milwaukee Co., WI (Aug); 5.53 Ac Mukwonago Site, Waukesha Co., WI (Aug); Northstar Beloit Site, Rock Co., WI (Aug); Wirth Farm PEC-AWER-Tree Survey, Ozaukee Co., WI (Aug); Olympia Fields Wetlands-AWER, Waukesha Co., WI (Aug); Maple Rd Softball Field, Washington Co., WI (Aug); Blise Property Pond, Washington Co., WI (Aug); St. Johns NW Military Academy Wetlands-PEC, Waukesha Co., WI (Aug); Wildwood Property Wetlands-Navigability, Walworth Co., WI (Aug); Goldendale Rd Property, Washington Co., WI (Aug); 6951 S Lovers Lane, Milwaukee Co., WI (Aug); Klumb Property Wetlands-Corridor, Waukesha Co., WI (Aug); Highland Meadows Residential, Ozaukee Co., WI (Sep); Grand Hills Castle Expansion GP, Waukesha Co., WI (Sep); 31110 82nd St Property, Kenosha Co., WI (Sept); Miller Property Wetlands-SEC, Waukesha Co., WI (Sep); Townline Rd Water Main Wetlands-GP, Waukesha Co., WI (Sep); Sanctuary at Good Hope East PEC, Waukesha Co., WI (Oct); Kutzler Express Property, Kenosha Co., WI (Oct); 47th Ave Property, Kenosha Co., WI (Oct); Steinbrink Property, Kenosha Co., WI (Oct); Caledonia Developments, Racine Co., WI (Oct); DeGrave Farm, Racine Co., WI (Oct); Nettesheim Farm Pewaukee, Waukesha Co., WI (Oct); Fisher-Barton Property, Waukesha Co., WI (Oct); BRP shipyard Sturtevant, Racine Co., WI (Oct); CTH C Site Sheboygan Falls, Sheboygan Co., WI (Oct); Willabay Meadows Residential, Walworth Co., WI (Oct); Thode Dr Property, Waukesha Co., WI (Oct); Middle Rd Property Wetlands-AWER, Racine Co., WI (Oct); Three Pillars Dousman Ph1A, Waukesha Co., WI (Oct); Primrose School Site Brookfield, Waukesha Co., WI (Oct); Grand Geneva Housing Site, Walworth Co., WI (Nov); 2651 Fuller Rd Site, Rock Co., WI (Nov); Willis Ray Rd Property, Walworth Co., WI (Nov); Harding Dr Menomonee Falls Site, Waukesha Co., WI (Nov).

2021 Wetland Delineations, Exemption Submittals, and Permitting (95 sites)

CTH CW Property Exemption, Jefferson Co., WI (Jan); BP Parcel Determination, Kenosha Co., WI (Mar); Narula Property, Kenosha Co., WI (Apr); So Wi Veterans Mem Cemetery, Racine Co., WI (Apr); N. 70th St. Site, Milwaukee Co., WI (Apr); 6th & Grange Site, Milwaukee Co., WI (Apr); North Lake Dr Site, Racine Co., WI (Apr); E. Lakeshore Dr Property, Kenosha Co., WI (Apr); Deaton Parcel Exemption, Kenosha Co., WI (Apr); Alliant Energy Solar Site, Sheboygan Co., WI (Apr); Breg-3 Site Exemptions, Milwaukee Co., WI (Feb); Bristol Highlands, Kenosha Co., WI (Apr); Sandalwood Lot 20, Oconto Co., WI (Apr); Martin Rd Parcels, Waukesha Co., WI (Apr); Fair Meadow Subd Exemption, Walworth Co., WI (Apr); Will Rose Haven GP, Waukesha Co., WI (Apr); Bristol Property Wetlands & Exemption, Kenosha Co., WI (Apr); 11900 N Port Washington Rd, Ozaukee Co., WI (Apr); Gibbs Parcel, Kenosha Co., WI (May); Schaefer Farm, Racine Co., WI (May); Lisbon 12-Ac Parcel, Waukesha Co., WI (May); Coach Hills Exemptions, Racine Co., WI (May); Ventimiglia Property, Oconto Co., WI (May); Case HS Property, Racine Co., WI (May); Warntjes North-South Parcels, Kenosha Co., WI (May/Jul); CSM 3325 Dover, Racine Co., WI (May); STH 175 Parcel, Washington Co., WI (May); Holy Hill Rd Property, Washington Co., WI (May); Lyons Parcel Determination, Walworth Co., WI (May); CSM 3591 Mequon, Ozaukee Co., WI (May); Parcel 293-0965 Pleasant Prairie, Kenosha County, WI (May); Denoon Country Estates Muskego, Waukesha Co., WI (May); Blaze Landscaping Lisbon Parcel Wetlands-Exemption, Waukesha Co., WI (Jun); Hughes Parcel wetlands-Woodlands-PEC, Racine Co., WI (Jun); Logan Parcel, Washington Co., WI (May); CTH LL Property, Ozaukee Co., WI (Jun); Steenburg Farm Oakridge, Fond du Lac Co., WI (Jun); Steenburg Farm Dallman, Fond du Lac Co., WI (Jun); UW Parkside Utility Renovations, Kenosha County, WI (May); Salem Lakes Parcel 70412, Kenosha County, WI (Jun); Russet Ct Muskego Site, Waukesha Co., WI (Jun); Kazmierczak Property, Washington Co., WI (Jun); Parcel 152-0100 Pleasant Prairie, Kenosha Co., WI (Jun); 59-Acre Parcel Lisbon Property, Waukesha Co., WI (Jun); 98th St Parcel Randall, Kenosha Co., WI (Jun); Ryan Rd 80-Ac Site, Milwaukee Co., WI (Jul); Hickory Hill West Wetland-PEC Lisbon, Waukesha Co. WI (Jun); Cranberry Creek Landfill, Wood Co., WI (Jul); Christina Estates Outlot 1 Exemption, Racine Co., WI (Jul); LG House of Music Property, Walworth Co., WI (Jul); STH 158-I94 Property, Kenosha Co., WI (Aug); 3-Mile Rd Property, Racine Co., WI (Jul); Price Parcel Ottawa, Waukesha Co., WI (Jul); Lot 1 Lilac Rd Rubicon, Dodge Co., WI (Aug); 633 Progress Dr Determination, Ozaukee Co., WI (Jul); I41 & STH60 Property Slinger, Washington Co., WI (Aug); Summit Parcel 0708985 Determination, Waukesha Co., WI (Aug); Timberline Trail Landfill Wetlands and Exemption, Rusk Co., WI (Aug); Seasons at Mt Pleasant Sewer, Racine Co., WI (Aug); Kenny Dr Lots 1-2, Washington Co., WI (Aug); Bliffert Lumber Germantown, Washington Co., WI (Aug); Gibson Parcels Eagle Site, Waukesha Co., WI (Aug); Clover Run Stables, Racine Co., WI (Sep); Pink Property Salem Lakes GP, Kenosha Co., WI (Sep); Albano Property Carol Beach, Kenosha Co., WI (Sep); Mosconi Parcel Somers, Kenosha Co., WI (Sep); Petrie Rd Property Geneva, Walworth Co., WI (Sep); NML Property Oak Creek, Milwaukee Co., WI (Sep); Carol Beach Estates, Kenosha Co., WI (Sep); Mt. Pleasant Business Ctr Site, Racine Co., WI (Sep); Pleasant Prairie Power Plant, Kenosha Co., WI (Sep); STH 31 Property, Racine Co., WI (Sep); 112th St Expansion Parcel, Milwaukee Co., WI (Oct); Glacier Ridge Landfill EC Site, Dodge Co., WI (Sep); City-View Subdivision Horicon, Dodge Co., WI (Sep); Rock Rd Co Beloit, Rock Co., WI (Oct); Glass Parcels Richfield, Washington Co., WI (Oct); Alliant Clinton Substation, Rock Co., WI (Oct); Triggs Property Delafield, Waukesha Co., WI (Oct); Singh Parcel Franklin, Milwaukee Co., WI (Oct); Hilmer Property Muskego, Waukesha Co., WI (Oct); Baseler Property Muskego, Waukesha Co., WI (Oct); ALDI Property Oak Creek, Milwaukee Co., WI (Oct); Plank Rd Property Burlington, Racine Co., WI (Oct); Jackson Marsh Restoration Site, Washington Co., WI (Oct); Pilgrim Rd Parcel Brookfield, Waukesha Co., WI (Oct); Henneberry Parcel Muskego, Waukesha Co., WI (Oct); Ewig Parcel Franklin, Milwaukee Co., WI (Oct); STH 120 Site L Geneva, Walworth Co., WI (Oct); KMHS Wales, Waukesha Co., WI (Oct); 184th Ave Bristol Property, Kenosha Co., WI (Oct); 144th Ave Bristol Property, Kenosha Co., Pabst Rd Oconomowoc Site, Waukesha County, WI (Oct); N Lake Shore Dr Mequon, Ozaukee Co., WI (Nov); 28414 Wilmot Rd Salem Lakes, Kenosha Co., WI (Nov); 819 E Drexel Site, Milwaukee Co., WI (Nov).

2020 Wetland Delineations, Exemption Submittals, and Permitting (90 sites)

Courtney Street Storage Buildings, Racine Co., WI (Feb); 86th Ave & STH 165 Parcel, Kenosha Co., WI (Feb-Apr); Harris Gravel Pit, Dane Co., WI (Mar-Apr); Alliant Birnamwood Substation, Shawano Co., WI (Apr); Rolling Meadows Drive Parcel, Fond du Lac Co., WI (Apr); Lieds Nursery Site, Waukesha Co., WI (Apr); Plas-Tech Engineering Site, Walworth Co., WI (Apr); Fink Parcel, Racine Co., WI (Apr); Lot 1 Proposed CSM 3258, Racine Co., WI (Apr); Harris Gravel Pit, Dane Co., WI (May); Schumacher Rd Reconstruction, Dane Co., WI (Apr); Whitetail Ridge Ph2, Kenosha Co., WI (Apr), Kelly Pit Addition, Dane Co., WI (Apr); Myrtle Way Road Improvements, Rock Co., WI (Apr); Pewaukee Industrial Park South, Waukesha Co., WI (May); Mueller Property, Fond du Lac Co., WI (Apr); 3901 Kipp Street Site,

Dane Co., WI (Apr); Witte Parcels, Dane Co., WI (Apr); Sandalwood Lots 7-8, Oconto Co., WI (Apr); Yellowstone Outdoor Resort, Lafayette Co., WI (Apr); S&L Underground Expansion, Columbia Co., WI (May); 200 Baraboo Street, Sauk Co., WI (May); Jefferson Pit, Jefferson Co., WI (May); Rock Point Village, Waukesha Co., WI (May); Blanchardville Coop Oil & NGSD Parcels, Green Co., WI (May); Logtown Development, Sauk Co., WI (Jun); Maple Ave Property, Waukesha Co., WI (May); Wanasek Property, Racine Co., WI (May); Meier Farms, Dane Co., WI (Jun); 76th & Ryan Site, Sauk Co., WI (May); Milton Townline Road Site, Rock County, WI (May); Somers Multi-family Site, Kenosha Co., WI (May); Cazenovia WWTP Expansion, Waukesha Co., WI (Jun); Waukegan Property, Lake Co., IL (Jun); Ozaukee Christian School, Washington Co., WI (Jun); Kohler Distribution Center, Sheboygan Co., WI (Jun); Veterans Memorial Park West Site, Kenosha County, WI (Jun); Veterans Memorial Park East Site, Kenosha County, WI (Oct); Bristol Commons Site, Kenosha Co., WI (Jun); Barels Property, Racine Co., WI (Jun); Rogich Property, Milwaukee Co., WI (Jun); CTH MM Intersection Reconstruction, Dane Co., WI (Jul); Rose Property, Racine Co., WI (Jun); Baldev Court Property, Ozaukee Co., WI (Jul); Paul-Meghan Dominie Property, Dane Co., WI (Jul); Union Court Site, Kenosha Co., WI (Jul); Webcrafters Parcels, Dane Co., WI (Jul); Site Security Upgrades Site, Waukesha Co., WI (Jul); Scuppernong Creek Site, Waukesha Co., WI (Jul); W9030 Oak Ridge Road Property, Jackson Co., WI (Jul); Cherokee Golf Course, Dane Co., WI (Aug); W3948 South Shore Drive, Walworth Co., WI (Aug); Caledonia Multifamily Site, Racine Co., WI (Aug), Mittelstaedt Property, Sauk Co., WI (Aug); 1525 Bryce Drive Parcel, Winnebago Co., WI (Sep); Platten Property, Outagamie Co., WI (Sep); St. Mary's Springs Site, Fond du Lac Co., WI (Sep); Fairway Village Site, Ozaukee Co., WI (Sep); Quarry Park Site, Waukesha Co., WI (Sep); CTH F-Concord Site, Jefferson Co., WI (Sep); HJ Williams Farm, Adams Co., WI (Oct); STH 16-Lisbon Rd Parcel, Waukesha Co., WI (Sep); Golden Lake Road Property, Waukesha Co., WI (Sep); 4522 CTH P Parcel, Washington Co., WI (Sep); Darby Farms, Kenosha Co., WI (Sep); 227 Sussex Street, Waukesha Co., WI (Sep); Lexus of Brookfield Site, Milwaukee Co., WI (Sep); Wesner Greenfield Ave Parcels, Waukesha Co., WI (Sep); Oriole Lane Parcels, Ozaukee Co., WI (Oct); Wayside Parkview Estates, Brown Co., WI (Sep); Wind Point Parcel, Racine Co., WI (Oct); Geneva National Lot 18-23, Walworth Co., WI (Oct); Badger Farm, Racine Co., WI (Oct); Dorset Corners Substation, Monroe Co., WI (Sep); Covered Bridge Rd Site, Ozaukee Co., WI (Oct); Trek Distribution Center, Jefferson Co., WI (Oct); Craftsman Drive Parcel, Waukesha Co., WI (Oct); Village Green Subdivision, Ozaukee Co., WI (Oct); Ansay Farm, Ozaukee Co., WI (Oct); Zenner Farm Property, Racine Co., WI (Oct); West Snell Rd Site, Winnebago Co., WI (Oct); Kenosha County Bridges, Kenosha Co., WI (Oct); Confidential Site Janesville, Rock Co., WI (Oct); Janesville Airport Site, Rock Co., WI (Oct); 10920 West Liberty Drive, Milwaukee Co., WI (Oct); V of River Hills 53-Acre Site, Milwaukee Co., WI (Oct); Hwy 14 & Lacy Rd Site, Dane Co., WI (Oct); Wilderness Way Parcel, Waukesha County, WI (Oct); Hummingbird Lane Parcel, Sheboygan Co., WI (Oct); Plainview Rd Site, Waukesha Co., WI (Nov); Delimat Property, Kenosha Co., WI (Nov); 11900 N Port Washington Rd Parcel, Ozaukee Co., WI (Nov); Canopy Hills Artificial Wetland, Racine Co., WI (Dec); Strauss Brands Facility, Milwaukee County, WI (Dec).

2019 Wetland Delineations, Exemption Submittals, and Permitting (39 sites)

North Hills Subdivision, Waukesha Co., WI (Jan); Prairie Walk Subdivision, Waukesha Co., WI (Apr); Loomis Parcel Determination, WI (Mar-Apr); Lamminem Parcel, Kenosha Co., WI (Apr); Lot 103 Burlington, Racine Co., WI (Apr); 7220 Ryan Rd Parcel, Milwaukee Co., WI (Apr); 1-Acre Franklin Parcel, Milwaukee Co., WI (June); 256th Ave Site, Kenosha Co., WI (May); 915 Main St Mukwonago, Waukesha Co., WI (May); Muskego Lakes CC, Muskego, Waukesha Co., WI (June), Bonniwell Road Parcel, Ozaukee Co., WI (July); 333 Portland Rd Site, City of Waterloo, Jefferson Co., WI (May); Thompson Lane Parcel, Village of Chenequa, Waukesha Co., WI (May); Schmitz Redi-Mix Site, Village of Mt. Pleasant, Racine Co., WI (June); New Berlin Redi-Mix Site, City of New Berlin, Waukesha Co., WI (May); Elm Grove Road Basin, City of New Berlin, Waukesha Co., WI (May); Lathrop-Meacham Parcels Mitigation Site, Village of Mt. Pleasant, Racine Co., WI (May-July); Lot 18-31 Geneva National Site, Town of Geneva, Walworth Co., WI (July); Bohner's Lake Parcel, Town of Burlington, Racine Co., WI (Sept); 6970 South 6th St., City of Oak Creek, Milwaukee Co., WI (Aug); Weatherstone Meadows site, City of New Berlin, Waukesha Co., WI (Aug); Parkview Apartments site, Village of Somers, Kenosha Co., WI (Aug); Volkswagen Expansion site, Village of Pleasant Prairie, Kenosha Co., WI (Aug); Pewaukee-Brookfield Trail, Waukesha Co., WI (Aug-Sept); Parcel 1268-993, City of New Berlin, Waukesha Co., WI (Aug); Germantown Industrial Business Park, Washington Co., WI (Oct); Haasch- Finger site, City of Brookfield, Waukesha Co., WI (Oct); Kennedy Property, Village of Waunakee, Dane Co., WI (Oct); Jefferson County Interurban Trail, Towns of Watertown and Ixonia, Jefferson Co., WI (Oct); Mukwonago Residential Parcel, Village of Mukwonago, Waukesha Co., WI (Oct); Pine Ridge Estates, City of Oconomowoc, Waukesha Co., WI (Oct); Silver Lake Parcels, Village of Salem Lakes, Kenosha Co., WI (Oct); New Berlin Trail Phase II, City of Waukesha, Waukesha Co., WI (Oct); 1910 W Puetz Road site, City of Oak Creek, Milwaukee County, WI (Oct); Project Redline, Village of Menomonee Falls,

WI (Oct); CSM 3232 Outlot 1, Village of Mt. Pleasant, Racine Co., WI (Oct); Plant Community Mapping and Assessment, City of Oak Creek, Milwaukee Co., WI (Nov); Faber Property, Village of Williams Bay, Walworth Co., WI (Nov); Campus Drive Property, Village of Hartland, Waukesha Co., WI (Dec).

Example 2018 Wetland Delineations in WI and IL (50 sites)

Homestead Acres, Racine Co., WI (Apr); Greenmeadows, Racine Co., WI (Apr), Wind Point School, Racine Co., WI (Apr); Vintage Parc East, Kenosha Co., WI (Apr); Nelson-Heckel, Kenosha Co., WI (Apr); Caledonia Storage, Racine Co., WI (Apr); New Berlin Storage, Waukesha Co., WI (Mar); Manke Gravel Pit, Columbia Co., WI (May); Drissel-Wallace, Kenosha Co., WI (May); LaBelle Golf Course, Waukesha Co., WI (May); Waterloo Aluminum, Jefferson Co., WI (May); Salem Business Park, Kenosha Co., WI (May); Audubon Arboretum, Racine Co., WI (May); Briarwood, Racine Co., WI (May); Basting-Brown Parcels, Waukesha Co., WI (May); 84-Acre Site, Racine Co., WI (May); Jolenta Lane, Waukesha Co., WI (Apr); Rock Road Storage, Walworth Co., WI (May); Wildwood Creek, Winnebago Co., WI (Jun); Green Bay Site, Brown Co., WI (Jun); Main Street Market, Kenosha Co., WI (Jul), Armstrong Eddy Park, Rock Co., WI (May), Hickory St Site, Ozaukee Co., WI (Jun), Parcel DW 800004, Walworth Co. (Jun); Lot 8 Parcel WCA-0003, Walworth Co., WI (Jun); RRR Grundy, Kane Co., IL (Jul); Coleman Norris Parcel, Waukesha Co., WI (Jul); Deaton Parcel, Kenosha Co., WI (Aug); Hintz Parcel, Washington Co., WI (Aug); Loomis-Ryan Rds Site, Milwaukee Co., WI (Aug); Grass Parcels, Waukesha Co., WI (Sep); Mallard Ridge Landfill Pipeline, Walworth Co., WI (Sep); Glacier Ridge Landfill Pipeline, Dodge Co., WI (Sep); Ravenwoods, Waukesha Co., WI (Aug); Canopy Hills, Racine Co., WI (Sep); Duck Pond, Kenosha Co., WI (Sep); Splinter Parcels, Racine Co., WI (Oct); Berget Parcel, Walworth Co., WI (Sep); Saylesville Rd Parcel, Waukesha Co., WI (Oct); Racine Ave-Lawnsdale Rd Parcel, Waukesha Co., WI (Oct); Braun Rd-90th St Parcel, Racine Co., WI (Oct); Grafton Parcels, Ozaukee Co., WI (Dec); Crawford Parcel, Racine Co., WI (Nov); Kotas Parcels, Racine Co., WI (Nov); Altamount Acres South, Racine Co., WI (Dec); Christina Estates, Racine Co., WI (Dec); Christina Estates NE, Racine Co., WI (Dec); Lathrop Parcel, Racine Co., WI (Dec); Hillside Ridge, Waukesha Co., WI (Dec); Stolz Property, Waukesha Co., WI (Dec).

Example 2017 Wetland Delineations in WI, MI, IN, and IL (31 Sites)

Back 40 Mine, Menominee Co., MI (Jan); Oakdale Rd Site, Waukesha Co., WI (Sep), Birds Eye Foods, Walworth Co., WI (Sep); Boss Property, Leelanau Co., MI (Jul); Brighton Estates, Waukesha Co., WI (Sep); Saltzman North, Waukesha Co., WI (Sep); Susnar Parcel, Waukesha Co., WI (Sep); Wrenwood Site, Washington Co., WI; Chorneyko Site, Walworth Co., WI (Apr); CN Railroad Bridges-6 Sites, Fond du Lac & Winnebago Co's, WI; CN Railroad Freeport Culvert, Kane Co., IL (May); Herrling Site, Dane Co., WI (Sep); MMSD Sewerage Project, Milwaukee Co., WI (May); Spring St Site, Racine Co., WI (Oct); Goshen Midway Cell Tower, Elkhart Co., IN (Apr); Two Creeks Utility Site, Manitowoc Co., WI (Nov); Suncast Site, Kane Co., IL (Dec); Lot 51 Lakeview Corp Park, Kenosha Co., WI (Oct); Lakefront Gun Range, Racine Co., WI (Oct); WI Club Golf Course, Milwaukee Co., WI (Apr); WisDOT Improvements, STH 32 Racine Co (Aug), STH 67 Walworth Co. (Sep), STH 20, Racine Co. (Oct), 27th St, Milwaukee Co. (Sep); Conference Point Boat Launch, Walworth Co., WI (Oct); Lake View RR Corridor, Portage Co., WI (Sep).

Example 2016 Wetland Delineations in WI, OH, MI and IL (Mostly Large Projects)

AEP Wavery-Adams-Seaman 138 kV Trans. Line Rebuild, Adams & Pike Co's, OH (Dec); Kansas West- Faraday Trans. Line Rebuild-Macon, Moultrie, & Coles Co's, IL (Jan), Riveredge Nature Center Preliminary, Ozaukee Co., WI (Feb); Lost Creek Mitigation Site, Portage Co., WI (Jun); I-41 Burleigh to Good Hope Corridor WisDOT, Milwaukee Co., WI (Jul); STH 60 Corridor, Ozaukee & Washington Co's, WI (Aug-Oct); Erin Hills Golf Course, Washington Co., WI (Sep); Back 40 Mine, Menominee Co., MI; Lake Zurich SW Cell Tower, Lake Co., IL (Oct); Acme Steel Coke Site, Cook Co., IL (Dec).

Example 2015 Wetland Delineations in WI, IL, and MO (Mostly Large Projects)

Bolser Street MO33211-M Cell Tower Site, Grundy Co., MO (Sep); Section 9 Site, Dane Co., WI (Apr); Franzel Rd Site, Bayfield Co., WI (Apr); Big Eau Pleine Mitigation Site, Marathon Co., WI (Aug); Taylor Road Siding Track, Jackson Co., WI (Nov); UPS-CACH Site, Cook Co., IL (Jun); Eggers Woods Forest Preserve, Cook Co., IL (Mar).

Example 2014 Wetland Delineations in WI, IL, and MI (Mostly Large Projects)

Emerald Park Western Expansion, Waukesha Co., WI (Oct); Arcadia Mining Site-Trempealeau Co., WI (Apr);

Kalamazoo River Parcel, Kalamazoo and Calhoun Co's, MI (Jul); G2 Mitigation Site - Winnebago Co., WI (May); Line 6A MP 378.94, McHenry Co., IL (Sep); Geneva National Site, Walworth Co., WI (Nov); Nortrax Site -Lincoln Co., WI (Oct); Toberman Parcel- Crawford Co., WI (Oct).

Example 2013 Wetland Delineations in WI, IL, OH, and MI (Mostly Large Projects)

West Central Lateral - Eau Claire, Clark, Jackson & Monroe Co's, WI (Apr-May); Walker Cranberry 80- acre Parcel -Jackson Co., WI (Sept - Oct); Berne to Natrium Pipeline, Monroe Co., OH (Oct); CNX Noble Pipeline - Noble Co., OH (Oct); Deer Grove Forest Preserve, Cook Co., IL (Nov).

Example 2012 Wetland Delineations in WI, IL, IN, and TX (Mostly Large Projects)

West Central Lateral (190 miles), Eau Claire, Clark, Jackson & Monroe Co's, WI (Sep-Nov); Morrison Creek Cranberry Parcel, Jackson Co., WI (Aug); London Mitigation Site, Jefferson Co., WI (July); Southern Access Pipeline, Sawyer & Washburn Co's, WI (Jun); I-80 Interchange, LaPorte Co., IN (Mar); Eagle-Ford Shale Plays, LaSalle & McMullen Co's, TX (Jan-Feb).

Previous Example Projects

I-94 Corridor Wetland and Primary Environmental Corridor Mapping and Endangered Species Study, Milwaukee, Racine, and Kenosha Counties, WI (Project Manager and Lead Scientist)

Primary Environmental Corridor Delineation Parkview Site, Village of Somers, WI (Lead Scientist)

Elm Road Generating Station, Oak Creek & Caledonia, WI (Project Manager & Lead Scientist)

Tri-State Tollway, Deerfield Plaza Wetland and Endangered Species Investigation, Lake and Cook Counties, IL (Lead Scientist)

Guardian II Laterals, Fox Valley, Hartford and West Bend, WI (Project Manager and Lead Scientist)

ATC Paris to St. Martins (KK3025) 138KV Line Rebuild, Kenosha, Racine and Milwaukee Counties, WI (Project Manager and Lead Scientist)



Attachment 7 | RAS 2014 Assured Wetland Delineation Report

Wetland Delineation Report



Approximately 112-Acre Loomis Rd. Parcels

City of Franklin, Milwaukee County, Wisconsin

RASN Project No. 1140273

March 19th, 2015

Wetland Delineation Report

Approximately 112-Acre Loomis Rd. Parcels City of Franklin, Milwaukee County, Wisconsin

Prepared by:

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Prepared for:

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March 19th, 2015

Table of Contents

Wetland Delineation Report......1-4
Wetland Summary Table

Appendices

Appendix 1: Figures

Figure 1: USGS Topographic/Site Location Map

Figure 2: Wetland Boundary Map

Figure 3: NRCS Soil Survey of Milwaukee County

Figures 4A-D: Aerial Photographs (2000, 2005, 2010 & 2013)

Figure 5: Wisconsin Wetland Inventory Map

Figure 6: Advanced Hydrologic Prediction Service 90-day Departure from

Normal Precipitation Map

Appendix 2: FSA Slide Review

Appendix 3: Site Photographs

Appendix 4: Wetland Determination Data Forms – Midwest Region



March 19th, 2015

INTRODUCTION

R.A. Smith National, Inc. (RASN) is pleased to provide this Wetland Delineation Report for a an approximately 112-acre Study Area split into 4 sections located north and south of West Loomis Road, south of West Ryan Road, and west of South 112th Street in the City of Franklin, Milwaukee County, Wisconsin (Appendix 1, Figure 1). The Study Area is more specifically located in the Northwest and Northeast ¼'s of Section 30, Township 5 North, Range 21 East. The delineation was completed at the request of Bear Development, LLC.

The purpose of the wetland delineation was to identify the proximity and extent of wetlands within the Project Area in association with a proposed development project. Eleven (11) wetlands totaling 13.17 acres (573,871 square feet), hereby referred to as "W-1 through W-11", were identified within the Study Area (Figure 2, Appendix 1). Only one of these wetlands, W-7, appears to have an obvious connection to a navigable waterway, while the other wetlands may be considered isolated. The final jurisdictional determination of the wetlands, however, lies with the US Army Corps of Engineers (USACE). The delineation is presented here in terms of qualifications, methodology, results, and conclusions.

STATEMENT OF QUALIFICATIONS

RASN provides wetland and ecological services including wetland delineation, assessment, permitting, and restoration. RASN ecologists offer a wide variety of technical experience in the natural resource field, and have successfully completed projects throughout the Midwestern and Northeastern United States.

Ms. Heather Patti, PWS and Ecologist with RASN, was the technical lead on this delineation project. Heather earned a Masters Degree in Botany and a minor in Ecology from North Carolina State University. Ms. Patti is experienced with a variety of aspects of ecological restoration, including wetland, mixed hardwood, and prairie restoration. She provides over 15 years of experience in wetland delineation, assessment, and mitigation. Ms. Patti attended the Basic & Advanced Wetland Delineation course offered by UW-LaCrosse in 2005 & 2013, became a WDNR Assured Wetland Delineator in 2009, and recently attended the Hydric Soil Identification Course offered by UW-LaCrosse in 2011.

Ms. Tina Myers has over 15 years of multidisciplinary ecological experience and has been recognized as a Professional Wetland Scientist (PWS) by the Society of Wetland Scientists (SWS) since 2004. She is also recognized as a Certified Wetland Specialist (CWS) in Illinois. Tina earned a Bachelor's degree in Conservation Biology from the University of Milwaukee in 1998 and has taken a multitude of ongoing educational courses including the Corps Wetland Delineation Training which she took in 2006, Regional Supplement and Field Practicum which she took in 2012, Advanced Wetland Delineation Training which she took in 2013, and Critical Methods in Wetland Delineation which she takes annually. She has performed hundreds of wetlands delineations throughout Wisconsin and Illinois and is also experienced in wetland restoration, wetland and waterway permitting, wetland assessment, vegetation surveys including rare species surveys, wildlife surveys, and environmental monitoring.

Ms. Nancy Wilson, Staff Ecologist and Landscape Architect with RASN, earned a Bachelor of Science Degree in Agronomy with an emphasis in Soil Science from Oklahoma State University. She also earned an Associate of Science Degree in Conservation Technology from Fox Valley Technical College in Appleton, Wisconsin, and an additional Associate of Science Degree in Landscape Horticulture from Milwaukee Area Technical College. Ms.

112-Acre Loomis Road Parcels Wetland Delineation Bear Development, LLC Page 2 / March 19th, 2015

Wilson attended the Basic Plant Identification, Hydric Soils and Wetland Delineation courses offered by UW-LaCrosse in 2009, and Wetland Delineation Critical Methods Workshops in 2010, 2011, 2013 and 2014. Ms. Wilson began assisting with wetland delineation projects in 2011.

Mr. Mike Al-wathiqui, wetland ecologist co-op with RASN, earned his Bachelor's of Science degree from the University of Wisconsin-Milwaukee in Biology and Conservation and Environmental Science. He is currently pursuing his Master's degree in Freshwater Sciences and Technology at the University of Wisconsin-Milwaukee's School of Freshwater Science. Mike has over four years of multidisciplinary, ecological experience including working as a natural areas technician with the WDNR and as a forestry intern with the City of Milwaukee.

METHODOLOGY

The wetland delineation consisted of a map review followed by fieldwork to delineate the on-site wetlands. The fieldwork documented the presence and absence of hydrophytic vegetation, wetland hydrology, and hydric soil indicators outlined in the *U.S. Army Corps of Engineers (USACE) 1987 Wetland Delineation Manual*, Technical Report Y-87-1 (1987) and subsequent guidance documents (USACE 1991, 1992), Guidelines for Submitting Wetland Delineations in Wisconsin to the St. Paul District Corps of Engineers (USACE 1996), the *Basic Guide to Wisconsin's Wetlands and Their Boundaries* (Wisconsin Department of Administration Coastal Management Program, 2005), and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region, Version 2.0*, the guide for the USDA Natural Resources Conservation Services (NRCS) Field Indicators of Hydric Soils (version 7.0) in the United States, and in general accordance with Wisconsin Department of Natural Resources (WDNR) guidelines. The Midwest Regional USACE supplement was drafted in August 2010 for the purpose of bringing the existing 1987 Manual up to date for wetland delineations. This supplement is intended to be used as an additional guidance to the 1987 Manual and is not its replacement.

Prior to conducting fieldwork, RASN reviewed several maps for the property, including the United States Geological Survey (USGS) 7.5-minute quadrangle topographic map (Appendix 1, Figure 1), the NRCS Soil Survey Report for Milwaukee County (Appendix 1, Figure 3), the United States Geological Service (USGS) historical aerial photographs dated 2000, 2005, 2010, and 2013 (Appendix 1, Figures 4A-D), the Wisconsin Wetland Inventory Map (Appendix 1, Figure 5), and NOAA's Advanced Hydrologic Prediction Service Map (Appendix 1, Figure 6). Farm Service Agency (FSA) crop slides were also reviewed to determine the potential presence of farmed wetlands. The results of the FSA review are presented in Appendix 2 along with the FSA slides on CD.

Areas having wetland field indicators were evaluated in the field by RASN wetland scientists Ms. Heather D. Patti and Ms. Tina Myers with assistants Nancy Wilson and Mike Al-wathiqui during site visits on October 29th and 30th, 2014 and photo documented (Appendix 3). According to guidance described in the 1987 Manual and Midwest Regional Supplement, areas that under normal circumstances reflect a predominance of hydrophytic vegetation, hydric soils, and wetland hydrology are considered wetlands. RASN collected field data at thirty-two (32) sample points, using a transect and data point approach following the USACE Midwest Supplement wetland determination forms (Appendix 4). A sharpshooter shovel was used to dig the soil pits and to refine the wetland boundary. Cursory soil samples were also taken in areas that contained transitional hydric vegetation. The delineated wetland areas were flagged and then surveyed by RASN. Pink wire flags with the words "Wetland Delineation" were used to stake the wetland boundaries and orange flags were used to stake the data point locations. The wetland boundaries and data point locations are depicted on Appendix 1, Figure 2. Observations were made at representative sample points along transects extending through upland and wetland areas and photo documented (Appendix 3).

112-Acre Loomis Road Parcels Wetland Delineation Bear Development, LLC Page 3 / March 19th, 2015

RESULTS

The USGS topographic map (Appendix 1, Figure 1) shows the location of the property and the Wetland Boundary Map (Appendix 1, Figure 2) depicts the wetland boundaries overlaid onto a recent aerial photograph. Additionally, a one-foot contour map was overlain onto the most recent 2013 aerial map (Appendix 1, Figure 4D) to help determine where depressional areas area located within the landscape and thus where wetlands were most likely to be found. The topography throughout much of the Study Area is gently rolling, with elevations ranging from approximately 779-810 feet above mean sea level (msl). In general, the landscape positions of the wetlands vary and their elevations range from approximately 784 feet to 810 feet above msl.

According to the NRCS Soil Survey Report of Milwaukee County, Wisconsin (Appendix 1, Figure 3), mapped soils within the parcel consist of Ashkum silty clay loam with 0-2% slopes (AsA), Blount silt loam with 1-3% slopes (BlA), Elliott silt loam with 1-3% slopes (EsA), Markham silt loam with 2-6% slopes (MeB), Morley silt loam with 2-6% slopes (MzdB), Morley silt loam with 2-6% eroded slopes (MzdB2), and Morley silt loam with 6-12% eroded slopes (MzdC2). Of these soil types, the NRCS hydric soil list classifies the Ashkum silty clay loam as a poorly drained hydric soil, while the Blount and Elliott silt loams are classified as somewhat poorly drained soils with hydric inclusions. The vast majority of the Study Area contains either mapped hydric soil or soils with hydric inclusions as shown on both the NRCS Soil Survey map (Appendix 1, Figure 3) and the Wisconsin Wetland Inventory map (Appendix 1, Figure 5). The Wetland Summary Table (after this report) lists the mapped soils associated with each wetland. Most of the wetlands were delineated within mapped hydric or partially hydric soils with the exception of W-4 and W-10, which were delineated within non-hydric mapped soils. The fact that the vast majority of the site supports a healthy agricultural crop indicates that hydric and partially hydric soils within this site were likely historically drained via tiling.

A review of aerial photographs from the years 2000, 2005, 2010, and 2013 (Appendix 1, Figures 4-D) was completed by RASN prior to the site visit. During this timeframe, the majority of the land with the Study Area has been used as agricultural cropland with the exception of the upland wooded areas, wetlands, and the existing residential parcel. Wetlands W-1, W-2, W-6 and W-7 are all visible as non-farmed, mottled tones with black tones indicting open water. Wetland W-6 contains a more intermittent fresh (wet) meadow perimeter which is sometimes farmed. This perimeter is not highly visible on the 2000 through 2010 aerials, but is evident on the 2013 aerials perhaps due to a wet year. Farmed wetlands W-4, W-8, and W-9 are visible on most aerials as dark tones, indicating saturation. The remaining wetlands W-3, W-5, W-10, and W-11 are generally indiscernible on the aerials due to their small sizes, locations within wooded areas, or their narrow width as is the case with W-11.

The Wisconsin Wetland Inventory (WWI) Map depicts seven (7) mapped wetland cover types within the Project Area which are classified as follows:

- E1K = Emergent/ Wet Meadow (E), Persistent (1), Wet Soil, Palustrine (K)
- E2K = Emergent/ Wet Meadow (E), Narrow-leaved Persistent (2), Wet Soil, Palustrine (K)
- E2H = Emergent/ Wet Meadow (E), Narrow-leaved Persistent (1), Standing Water, Palustrine (H)
- S3K = Scrub/shrub (S), Broad-leaved Deciduous (3), Wet Soil, Palustrine (K)
- T3K = Forested (T), Broad-leaved Deciduous (3), Wet Soil, Palustrine (K)
- W0Hx = Open Water (W), Subclass Unknown (0), Standing Water, Palustrine (H), Excavated (x)
- T3/W0Hx = Forested (T), Broad-leaved Deciduous (3) / Open Water (W), Subclass Unknown (0), Standing Water, Palustrine (H), Excavated (x)

Of the eleven wetlands delineated, only five are mapped on the WWI map including W-1, W-2, W-6, W-7, and W-8. Please also refer to the Wetland Summary Table (follows this report) which lists each wetland and its associated

112-Acre Loomis Road Parcels Wetland Delineation Bear Development, LLC Page 4 / March 19th, 2015

WWI-mapped wetland cover types. The remaining wetlands are not mapped probably due to their small sizes.

Recent precipitation data are used to assess the current season's hydrology. Precipitation data can help make determinations as to whether or not the wetland hydrology criterion has been met at recorded data points. Rainfall data recorded by the local WETS table and the National Weather Service's Advanced Hydrologic Prediction Service (AHPS) were used to evaluate the hydrology of the site prior to the October 29th and 30th site visits (Appendix 1, Figure 6). According to the local WETS table (MILWAUKEE MITCHELL AP, WI839), average precipitation in the Milwaukee County area for the three months prior to the fieldwork is 9.82 inches. Average rainfall for the month of October is typically 2.49 inches. According to the AHPS map (Appendix 1, Figure 7), the late summer/autumn precipitation in the City of Franklin for the end of October fieldwork was within the normal range. This suggests that the surface or near-surface hydrology at the time of the site visits was probably in the normal range for this time of year.

FSA Crop Slide Review

Due to the presence of mapped hydric/partially hydric soil within a major portion of the Project Area, RASN conducted a review of Farm Service Agency (FSA) crop slides to evaluate the potential presence of farmed wetlands in areas that were particularly difficult to interpret due to the presence of a healthy corn crop. Crop slides for the years of 1980 through 2013 (except 2007, 2009, 2011, and 2012) were obtained from the Milwaukee County NRCS/FSA office. Four spreadsheets referred to as "FSA Crop Slide Review Data Sheets" can be found in Appendix 2 which analyze four potential farmed wetland areas that were located within mapped Ashkum hydric soil units that were normally cropped. These spreadsheets summarize interpretations made from viewing the crop slides as well as a climate summary based on a WETS Analysis. The WETS Analysis was used to determine normality of precipitation for the three months prior to the photograph date and conclude whether conditions were considered "dry", "normal", or "wet" during that period of time. If the date of the photograph was not provided, then it was presumed that the photograph was taken during the month of July, which is the most common month for these slides to be taken.

Of the thirty years analyzed, nineteen (19) were considered "normal", five (5) were "dry", and six (6) were "wet". The analysis of the FSA slides during the thirty year period lead indicated that none of the four areas evaluated contained wetland signatures in 50% or greater of the total years evaluated. In general, most of the signatures identified were present during wet years or during a month when a significant amount of rainfall had been recorded. All other farmed wetland areas visible on aerial photography and FSA slides were evaluated in the field and data points taken to confirm that wetland criteria were met.

Field Investigation

All areas on the above-mentioned maps as being wetland or having wetland characteristics were evaluated in the field. A total of thirty-five (35) data points were examined and eleven (11) wetlands totaling 13.17 acres (573,871 square feet), were delineated and surveyed by RASN (Appendix 1, Figure 2). Site photographs were taken of each wetland and are included in Appendix 3. Cursory soil samples and data points in both upland and wetland areas were sampled in the field to determine the wetland boundaries. The data sheets were compiled and are included in Appendix 4. Please refer to the Wetland Summary Table following this report for information about each wetland.

112-Acre Loomis Road Parcels Wetland Delineation Bear Development, LLC Page 5 / March 19th, 2015

CONCLUSION

Based on the wetland assessment completed by RASN, eleven (11) wetlands totaling 13.17 acres (573,871 square feet), were identified within the Study Area (Figure 2, Appendix 1). Only one of these wetlands, W-7, appears to have an obvious connection to a navigable waterway, while the other wetlands may be considered isolated. The final jurisdictional determination of the wetlands lies with the US Army Corps of Engineers (USACE).

This report is limited to the delineation of state and/or federally regulated wetlands on the property. However, there may be other regulated environmental features within the property (e.g., historical, archaeological, threatened or endangered species). Federal, state and/or local units of government may have regulatory authority to restrict land use within or close in proximity to other environmental features. For example, Wisconsin Adm. Code NR 151.12 requires buffers or a "protective area" from the top of the channel of streams, rivers and lakes, or at the delineated boundary of wetlands. The jurisdictional decision on the width of wetland buffers rests with the WDNR. The local unit(s) of government may also have protective area buffers from wetlands than that imposed under NR 151.

The U.S. Army Corps of Engineers has regulatory authority over waters of the U.S. including adjacent wetlands, and the WDNR has regulatory authority over wetlands, navigable waters, and adjacent lands under Ch. 30 Wisconsin State Statues, Act 6, and NR 103 Wisconsin Administrative Code. Local jurisdictions may also have regulations through zoning ordinances. Our client, Bear Development, LLC., respectfully requests verification of the delineated wetlands by the USACE.

APPENDICES

Appendix 1: Figures

Figure 1: USGS Map/Site Location Map

Figure 2: Wetland Boundary Map

Figure 3: NRCS Soil Survey of Milwaukee County

Figures 4 A-D: Aerial Photographs (2000, 2005, 2010, & 2013)

Figure 5: Wisconsin Wetland Inventory Map

Figure 6: NOAA Advanced Hydrologic Prediction Service Map

Appendix 2: FSA Slide Analysis

Appendix 3: Site Photos

Appendix 4: Wetland Delineation Data Forms – Midwest Region

Wetland ID	Dominant Community Type*	Size (SF)	Dominant Plant Species	Mapped Waterway	WWI Classification	Mapped Soil Types**	Comments
W-1	SM / ShM / FW	109,069	Phalaris arundinacea, Calamogrostis canadensis, Typha latifolia, Carex stricta, Spartina pectinata	none	E2K	Ashkum silty clay loam, 0-2% slopes (C) & Blount silt loam 1-3 % slopes (I)	W-1 is contains predominantly native sedge meadow and shallow marsh communities. However, portions of W-1 are degraded due to farming activities and prior manipulations to wetland hydrology. Evidence of wetland hydrology included a high water table, saturation at or near the surface, geomorphic position, and a positive FAC-Neutral Test in Transect T-1 and T-3. In Transect T-2 where farming occurs regularly, evidence of wetland hydrology included a sparsely vegetated concave surface, saturation visible on aerials, stunted or stressed plants, and geomorphic position; however, hydrology is seasonal as a water table and saturation were absent at the time of the site visit. Soils were observed as hydric in all three data points meeting the A2 and F6 Hydric Soil Indicators.
W-2	FWM / OW / FW	155,164	Phalaris arundinacea, Salix alba, Salix interior	none	E1K, W0Hx, S3K	Morley silt loam 2-6% slopes & Blount silt loam 1-3 % slopes (I)	W-2 is located north of Loomis Road and is surrounded by mesic forest to the north, mowed lawn with planted spruces and pines to the east and south, and an active farm field to the west. The open water pond is evident on all aerials as a black tone and covers the major portion of this wetland. The pond appears to have been excavated many years ago (prior to 1951 per Milwaukee County GIS aerials). The remainder of the wetland includes fresh (wet) meadow and farmed wetland areas with seasonal hydrology. Evidence of wetland hydrology included a sparsely vegetated concave surface, surface soil cracks, saturation visible on aerial imagery, stunted or stressed plants, geomorphic position, and a positive FAC-Neutral Test. The soil profiles met the F3 and F6 Hydric Soil Indicators.
W-3	SC	1,413	Fraxinus pennsylvanica, Rhamnus cathartica	none	none	Elliott silt loam, 1-3% slopes (I)	W-3 is a small concave depression with seasonal hydrology. It is located in the small triangular area between Loomis Rd and Loomis Ct. Evidence of wetland hydrology included surface soil cracks, crayfish burrows, geomorphic position, and a positive FAC-Neutral Test. The observed soil profile met the A11 and F6 Hydric Soil Indicators. Due to its small size, W-3 was not evident on aerial photography.
W-4	FW	3,137	n/a – mostly bare ground	none	none	Markham silt loam, 2-6% slopes	W-4 is a small farmed wetland with seasonal hydrology and is located just south of Loomis Road. The wetland was mostly void of vegetation, with <i>Echinochloa crus galli</i> (FACW) as the most common plant observed. Evidence of wetland hydrology included a sparsely vegetated concave surface, surface soil cracks, saturation visible on aerial imagery, stunted or stressed plants, geomorphic position, and a positive FAC-Neutral Test. Shovel refusal occurred within 15" of the surface due to a hard clay layer. It is possible that water becomes perched in this area early in the spring due to the presence of the hard clay. The soil profile observed met the A11 and F6 Hydric Soil Indicators.
W-5	ow	860	Typha latifolia, Bidens frondosa	none	none	Blount silt loam 1-3 % slopes (I)	W-5 is a man-made pond with a tile outlet on its north end. The wetland was excavated along the southern edge of a small wooded area just west of 112 th St. There is a strong topographic break along the entire wetland boundary and the hydroperiod is long with a surface water depth of 6 inches. Other evidence of hydrology included water-stained leaves, geomorphic position, and a positive FAC-Neutral Test. Soils met the F3 Hydric Soil Indicator.
W-6	OW / FWM	85,253	Phalaris arundinacea, Echinochloa crus galli	none	T3/W0Hx	Ashkum silty clay loam, 0-2% slopes (C), Elliott silt loam, 1-3% slopes (I), & Morley silt loam with 2-6% eroded slopes	W-6 contains an open water pond with permanent inundation surrounded by a fresh (wet) meadow with seasonal hydrology. The uplands are actively farmed. During dry years, the fresh (wet) meadow of W-6 may be farmed as observable on historical aerials and FSA crop slides. At the time of RASN's site visit, the fresh (wet) meadow was fairly densely vegetated with reed canary and barnyard grasses. Evidence of wetland hydrology within the two wetland data points (DP-18 & DP-20) included saturation at 12 inches, inundation visible on aerial imagery, surface soil cracks, saturation visible on aerial imagery, geomorphic position, and a positive FAC-Neutral Test. The soils observed met the A11, A12 and F6 Hydric Soil Indicators.

^{*}Community Types: FW = Farmed Wetland, FWM = Fresh (wet) Meadow, SM= Sedge Meadow, HS = Hardwood Swamp, SC=Shrub Carr, OW=Open Water Pond ** Soil Types: (C) = hydric, (I) = hydric via inclusions ShM = Shallow Marsh. Note: Refer to Site Photographs of each wetland.

W-7	ShM	185,571	Typha spp., Phalaris arundinacea	Yes	E2H	Ashkum silty clay loam, 0-2% slopes (C)	W-7 is located at the southernmost extent of the Project Area. It is part of a larger wetland complex that extends off-site providing baseflow to a tributary to Ryan Creek. A distinct vegetative break was observed along this wetland boundary where healthy corn gave way to primarily FACW and OBL vegetation with saturated hydric soils. Evidence of wetland hydrology included saturation, a drainage pattern, geomorphic position, and a positive FAC-Neutral Test. The soils contained a thick dark muck (with some clay content) which met the A1 (Histosol) Hydric Soil Indicator.
W-8	FW	17,995	n/a – mostly bare ground	none	ТЗК	Ashkum silty clay loam, 0-2% slopes (C)	W-8 is a small farmed wetland with seasonal hydrology and is located just south of Ryan Road. The wetland contained predominantly bare soil due to seasonal standing water or saturation. Evidence of wetland hydrology included a sparsely vegetated concave surface, water-stained leaves, surface soil cracks, saturation visible on aerial imagery, stunted or stressed plants, and geomorphic position. It did not meet a positive FAC-Neutral Test due to the presence of some widely scattered, opportunistic upland weed species that may have grown late in the season as the water receded. The soil profile observed met the F6 Hydric Soil Indicator.
W-9	FW	5,084	n/a – mostly bare ground	none	none	Blount silt loam 1-3 % slopes (I)	W-9 is a small farmed wetland with seasonal hydrology and is located within the portion of the Project Area that is located just north of Loomis Road. The wetland contained predominantly bare soil due to seasonal standing water or saturation. Evidence of wetland hydrology included a sparsely vegetated concave surface, surface soil cracks, saturation visible on aerial imagery, stunted or stressed plants, geomorphic position, and a positive FAC-Neutral Test. The soil profile observed met the F6 Hydric Soil Indicator.
W-10	SM / FWM	2,108	Carex stricta, Phalaris arundinacea	none	none	Morley silt loam 2-6% slopes	W-10 is a small, concave depression located in the southwest portion of the Project Area between an active farm field and a treeline. A topographic and vegetative break were the determining factors for the delineated boundary. The wetland appears to extend slightly off-site towards the west into the transmission line right-of-way. Although soils are mapped as non-hydric, a deep dark soil (10YR 2/1) was observed which contained redox depletions and concentrations starting within 8 inches of the surface, meeting the F6 Hydric Soil Indicator. Evidence of wetland hydrology included a high water table at 12 inches, saturation to the surface, water-stained leaves, geomorphic position, and a positive FAC-Neutral Test.
W-11	ShM	8,217	Typha x glauca, Phalaris arundinacea	none	none	Ashkum silty clay loam, 0-2% slopes (C) & Blount silt loam 1-3 % slopes (I,) Elliott silt loam, 1-3% slopes (I), & Markham silt loam, 2-6% slopes	W-11 is a cattail-dominated drainage ditch that lies directly along the south side of Loomis Road. It receives water from the road embankment and also via a culvert along Loomis Road. The soils contained extensive gravel and compacted clay and there was shovel refusal at 10 inches; however the soils met the F6 Hydric Soil Indicator. Evidence of wetland hydrology included saturation within W-11 included saturation within 6 inches of the surface, drift deposits, water-stained leaves, a drainage pattern, saturation visible on aerial imagery, geomorphic position, and a positive FAC-Neutral Test.

^{*}Community Types: FW = Farmed Wetland, FWM = Fresh (wet) Meadow, SM= Sedge Meadow, HS = Hardwood Swamp, SC=Shrub Carr, OW=Open Water Pond ** Soil Types: (C) = hydric, (I) = hydric via inclusions ShM = Shallow Marsh. Note: Refer to Site Photographs of each wetland.

Appendices

Appendix 1: Figures

Appendix 2: FSA Slide Review

Appendix 3: Site Photographs

Appendix 4: Wetland Determination Data Forms – Midwest Region

Appendix 1: Figures

Figure 1: USGS Map/Site Location Map

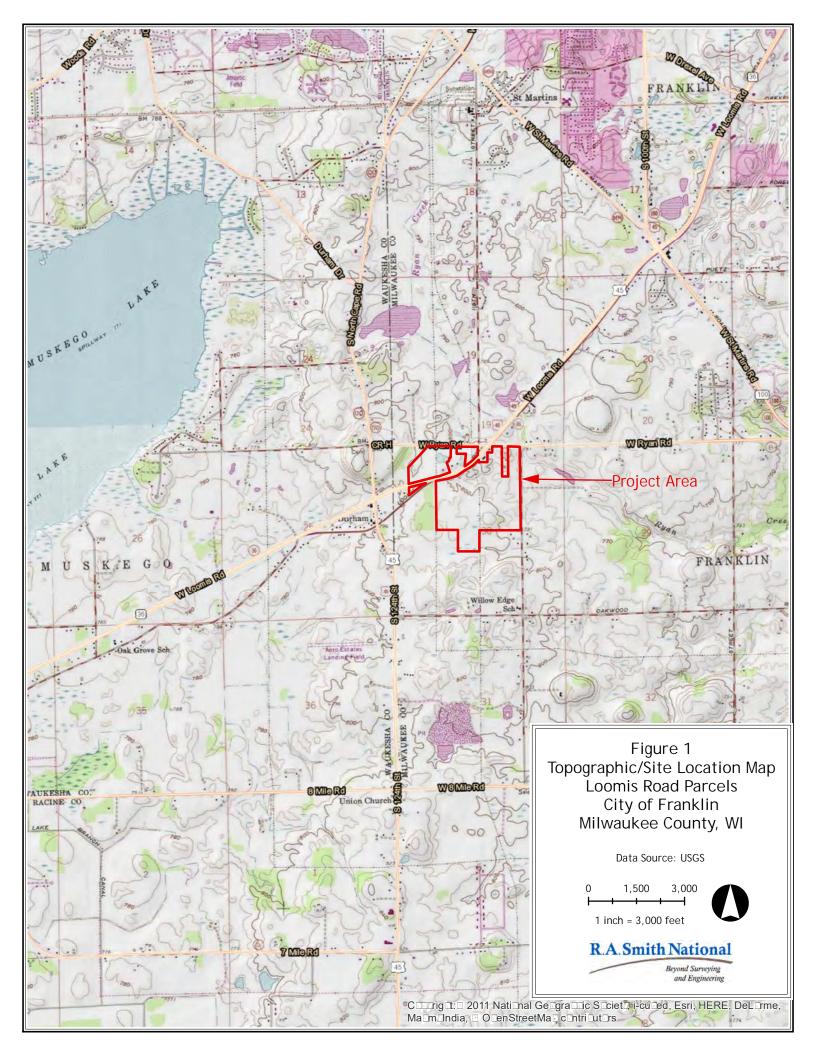
Figure 2: Wetland Boundary Map

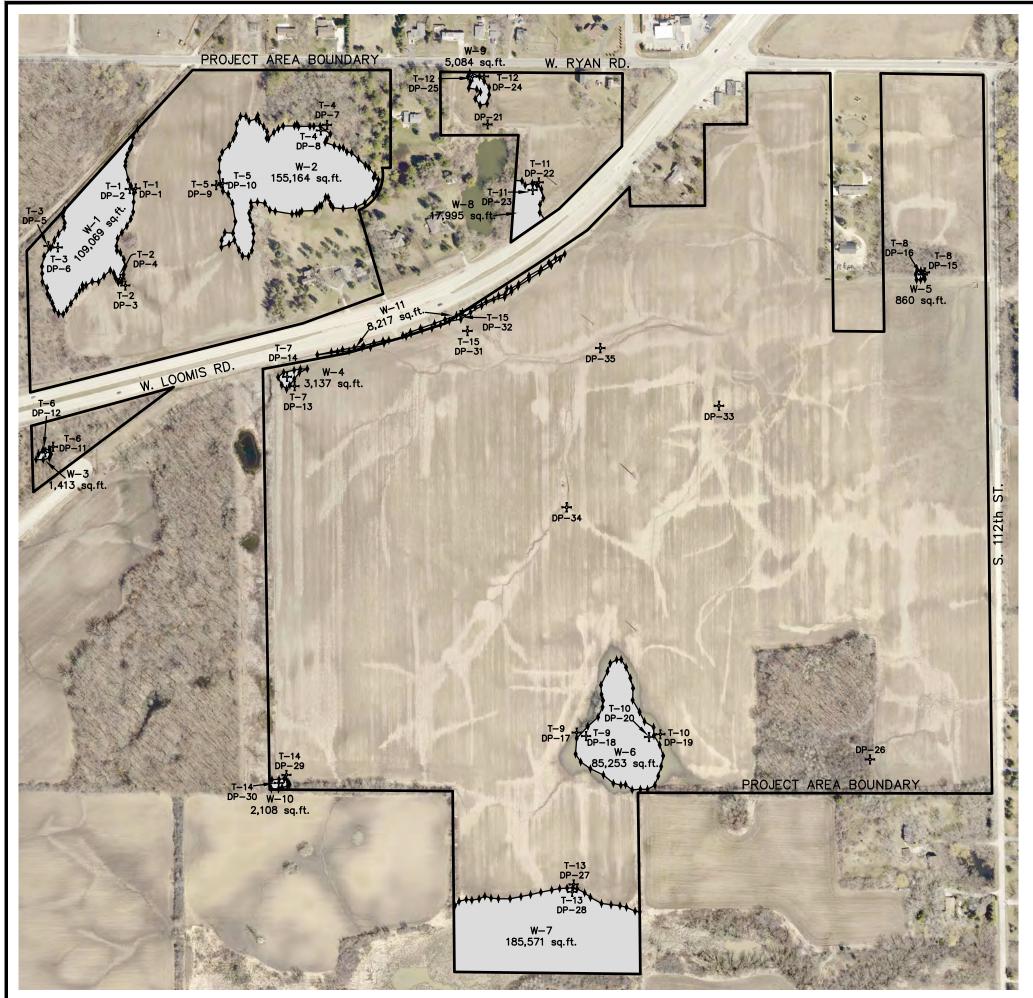
Figure 3: NRCS Soil Survey of Milwaukee County

Figures 4A-D: Aerial Photographs (2000, 2005, 2010, & 2013)

Figure 5: Wisconsin Wetland Inventory Map

Figure 6: 90-day Departure from Normal Precipitation Map





WETLAND BOUNDARY MAP

Situated on West Loomis Road, in the City of Franklin, Milwaukee County, Wisconsin.

Part of the Northwest 1/4 and Northeast 1/4 of Section 30, Township 5 North, Range 21 East, in the City of Franklin, Milwaukee County, Wisconsin.

December 1, 2014

Bear Development

Survey No.166226-BMJ

LEGEND

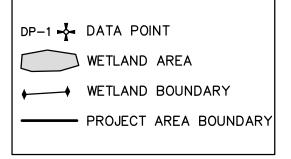




FIGURE 2. WETLAND BOUNDARY MAP

R.A. Smith National, Inc.

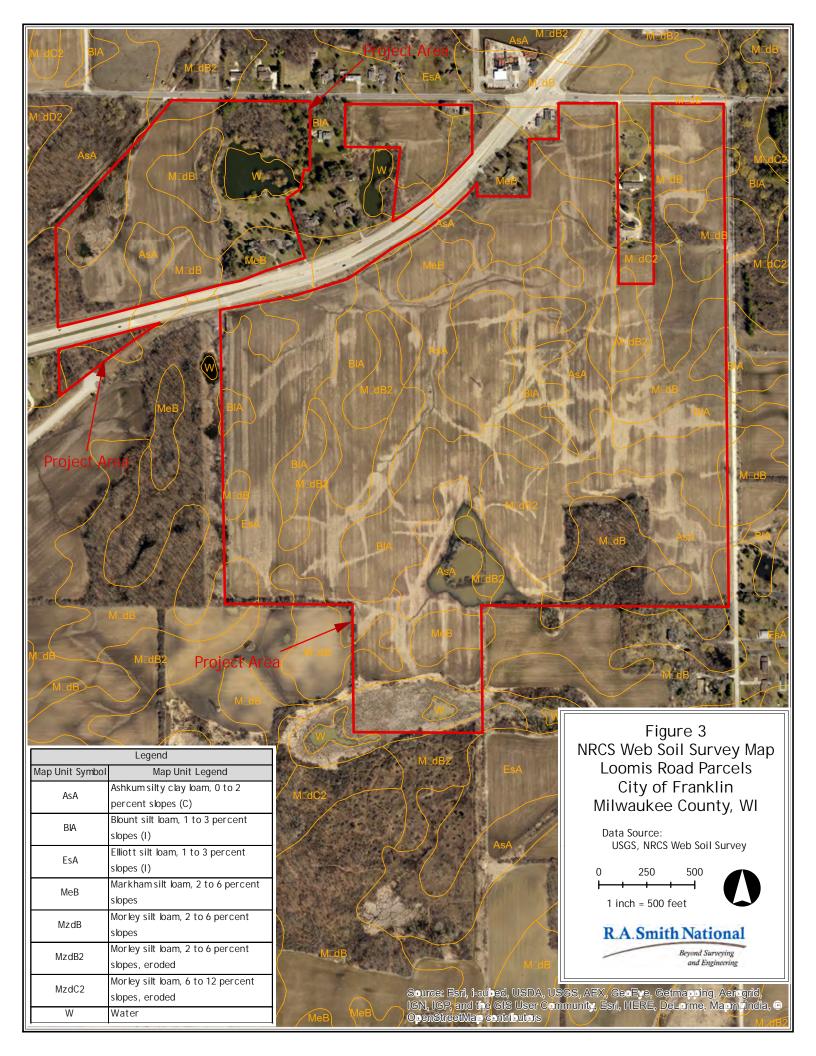
Beyond Surveying and Engineering

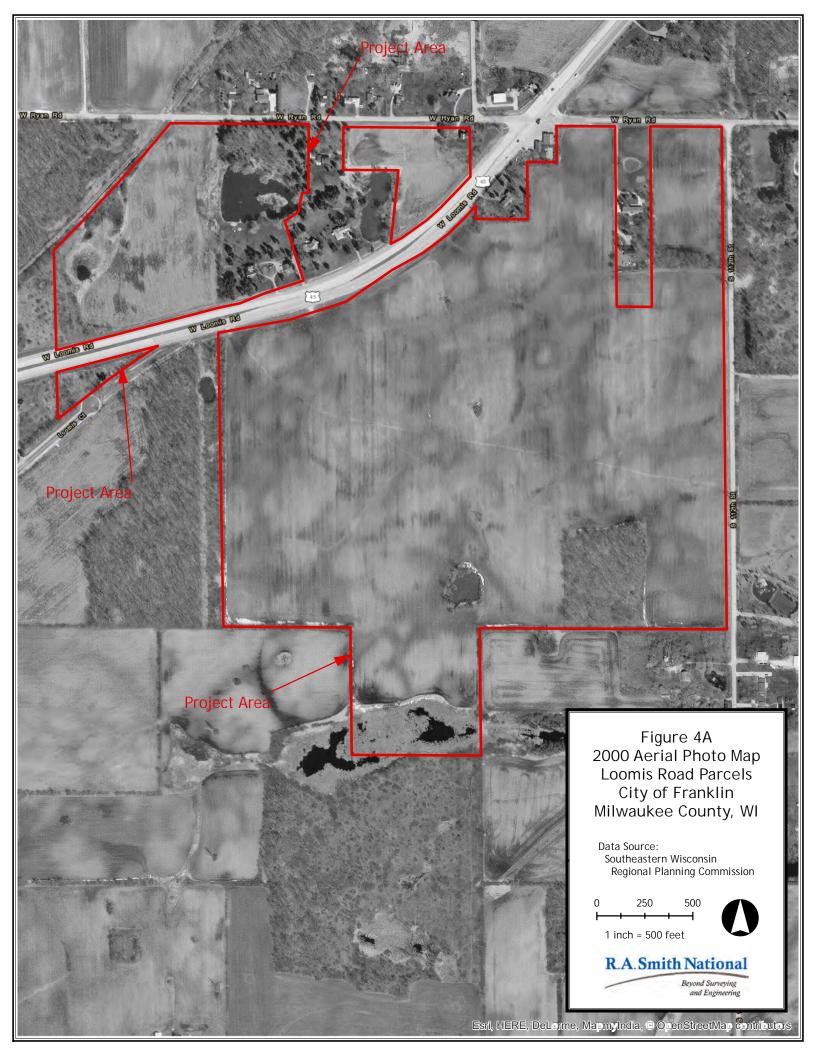
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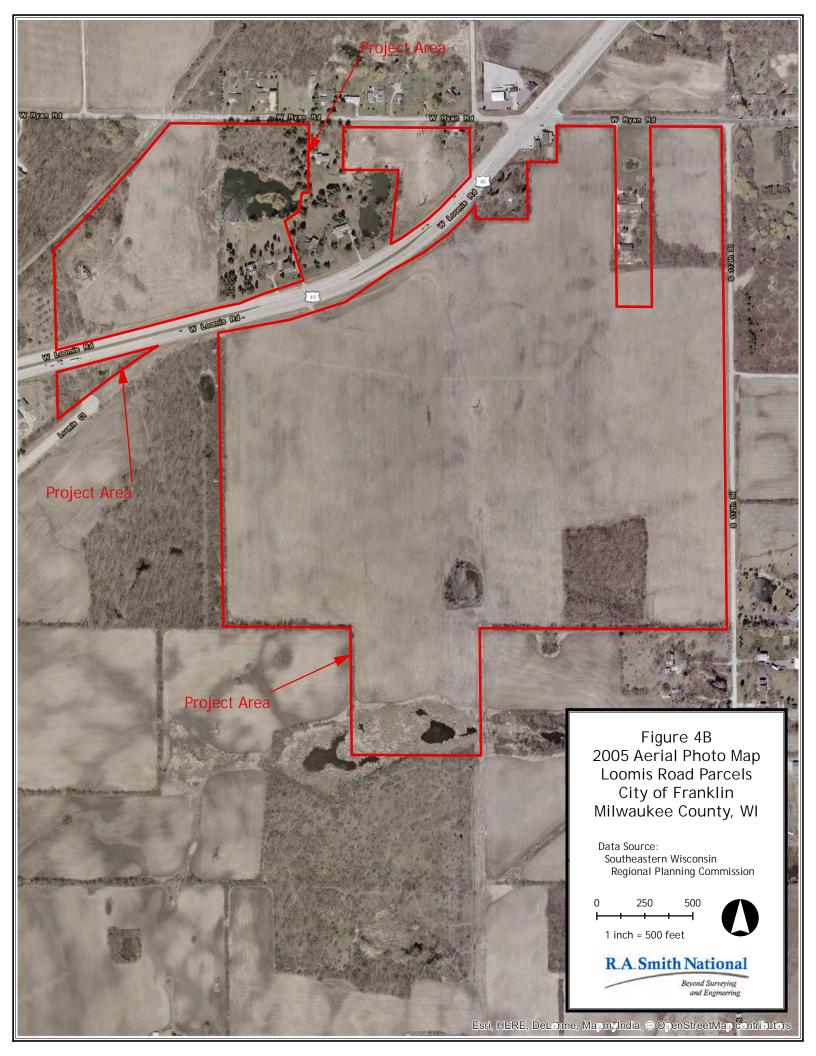
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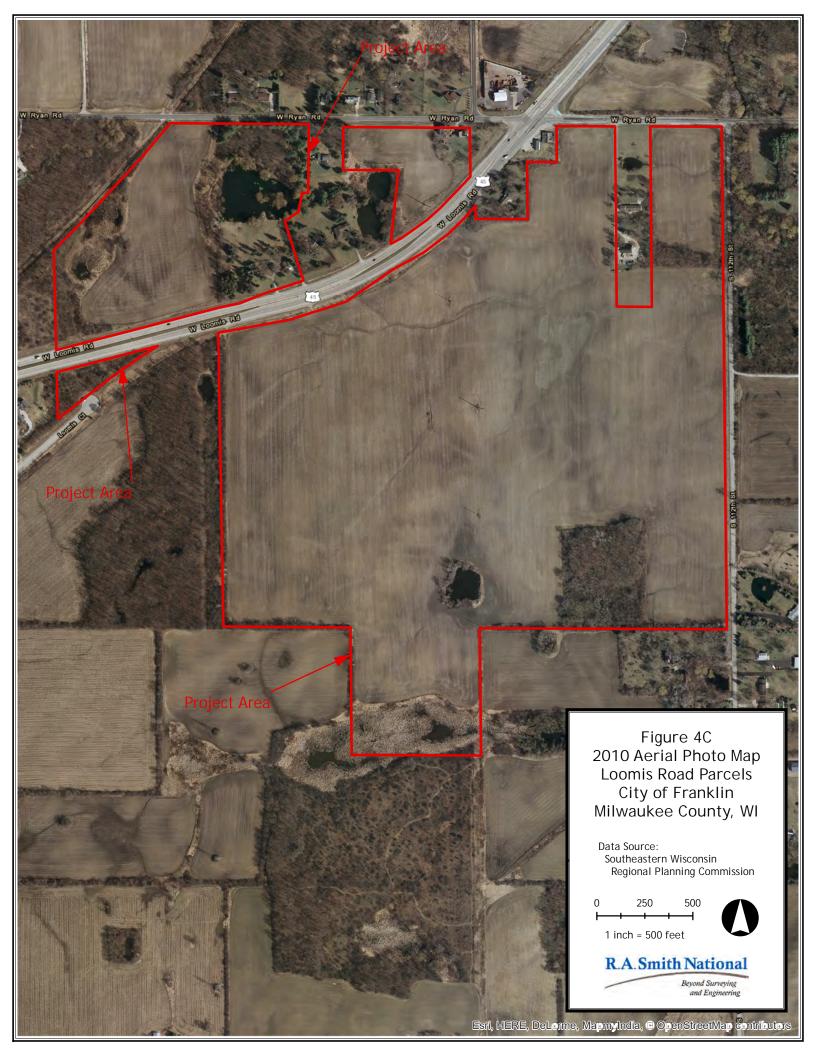
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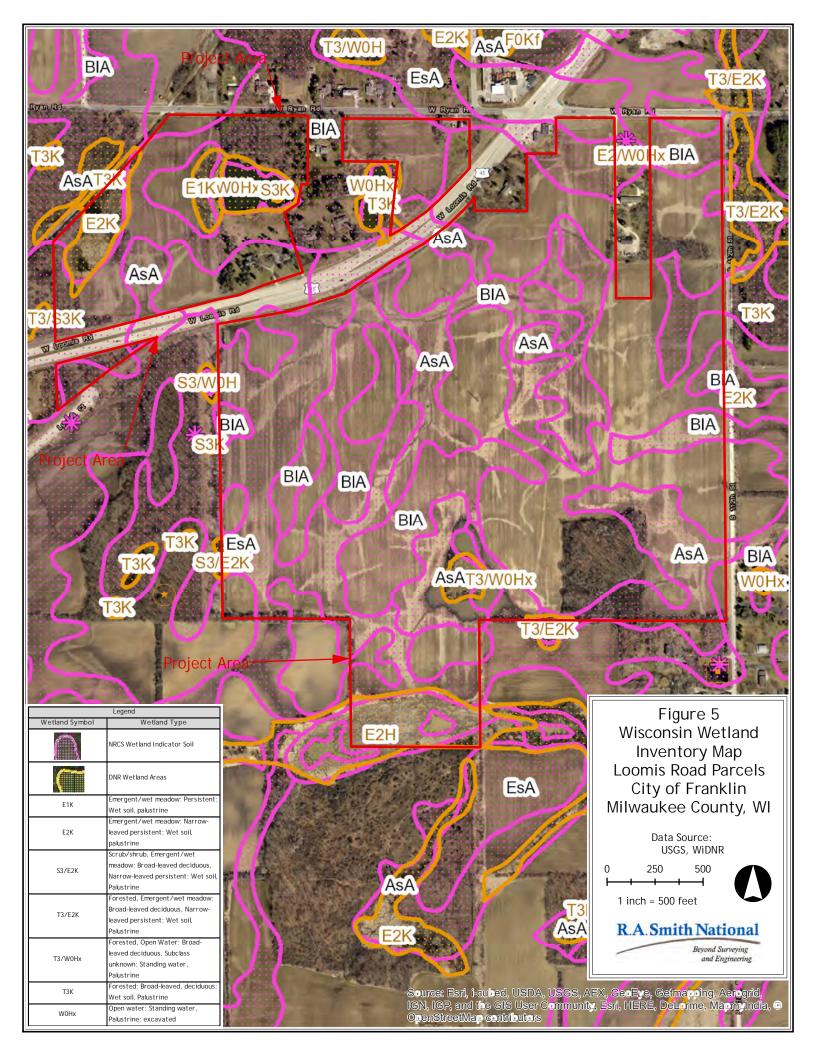




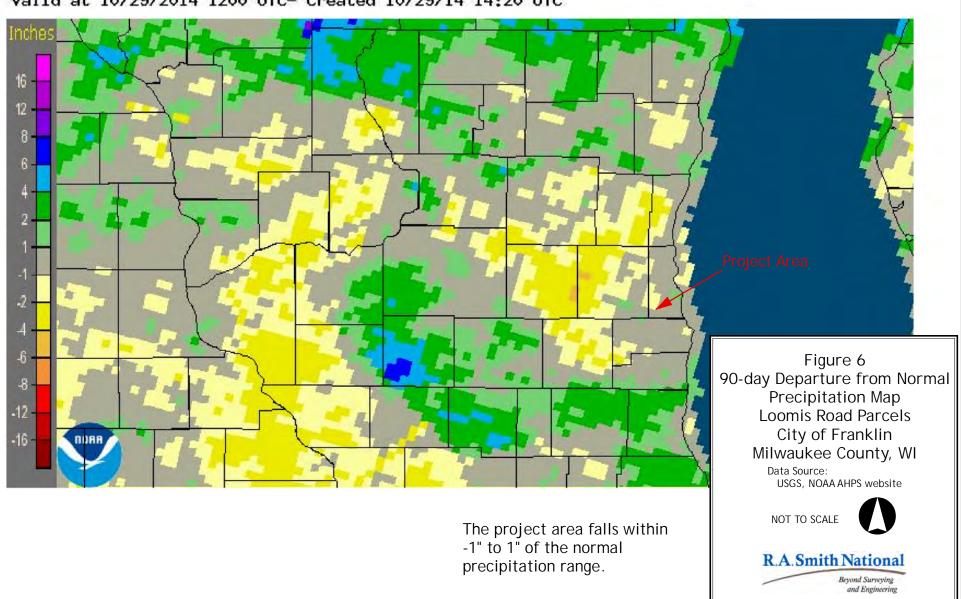








Milwaukee/Sullivan, WI (MKX): Current 90-Day Departure from Normal Precipitation Valid at 10/29/2014 1200 UTC- Created 10/29/14 14:20 UTC



Appendix 2:

FSA Slide Review

Wetland Documentation Record Remotely Sensed Data Summary

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Wetland Documentation Record

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Wetland Documentation Record

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Wetland Documentation Record

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Appendix 3:

Site Photographs



Photograph 1 (10/29/14): Northeast facing view of the sedge (wet) meadow portion of W-1. W-1 contains predominantly native sedge (wet) meadow that transitions to a shallow marsh, although there are smaller portions of degraded fresh (wet) meadow and farmed wetland as well.



Photograph 2 (10/29/14): Northwest facing view of a shallow marsh and open water portions of W-1 from south end of wetland.



Photograph 3 (10/29/14): General view of the open water pond located within W-2.



Photograph 4 (10/29/14): North facing view of the fresh (wet) meadow on the west side of W-2 underneath the transmission line right-of-way.



Photograph 5 (10/29/14): General view of W-3.



Photograph 6 (10/29/14): General view of W-4, a farmed wetland, and wetland data point DP-14.



Photograph 7 (10/29/14): Southwest facing view of W-5.



Photograph 8 (10/29/14): Tile outlet located at the north end of W-5.



Photograph 9 (10/29/14): View of the open pond located within the interior of W-6.



Photograph 10 (10/29/14): General view of the fresh (wet) meadow community that surrounds the open water pond within W-6. This area is sometimes farmed during drier years.



Photograph 11 (10/30/14): South facing view of the shallow marsh community within W-7 near wetland data point DP-28.



Photograph 12 (10/30/14): North facing view of the transition from shallow marsh wetland to upland with a healthy corn crop with wetland data point DP-28 shown in the foreground.



Photograph 13 (10/30/14): South facing view of W-8 with wetland data point DP-23 shown in the background.



Photograph 14 (10/30/14): General view of wetland data point DP-25 in W-9. Note the crop stress in this area.



Photograph 15 (10/30/14): View of upland data point DP-21 located south of W-9. Some crop stress was observed, but soils were non-hydric.



Photograph 16 (10/30/14): West facing view of W-10 with wetland data point DP-30 shown in the photo.



Photograph 17 (10/30/14): General view of the upland adjacent to W-10 where a healthy corn crop was present. Upland data point DP-29 is observable in the photo.



Photograph 18 (10/30/14): General south facing view of W-11, a shallow marsh ditch along the south side of Loomis Road.

Appendix 4:

Wetland Determination Data Forms – Midwest Region

WETLAND DETERMINATION DATA FORM - Midwest Region

Franklin /

Pr⊡ēctiSite: Loom	is Road Parcels				Cit⊡C⊡unt	t⊡ Milwaukee		Sam⊒ing Da	ate: October 29,	2014
A□□licantiO□ner:	Bear Developm	nent, LLC				State:	WI		Sam⊡ing P⊡n	t: T-1 DP-1UPL
In⊑estigat⊡r(s):	Heather D. Pat	ti, PWS & Tina M. Myers,	PWS		Sect	 ti⊡n, T⊡□ns⊡⊑, R	Range:	Section 30	, T5N R21E	
Land⊞rm (⊑illsl⊒e, te	errace, etc.):	backslope			L⊑cal relie⊑(cl	⊡nca⊡e, c⊡n⊡ex, i	n⊡ne):	convex		
SI□□e (□): 10%		Lat: See Figure 2		L⊡ng: Se	ee Figure 2		_	Datu	ım: See Figure	2
S⊡l Ma□Unit Name:		Blount silt loam, 1	-3% slopes (Bl	A), Hydric Inclsui	ions	v	VWI Classi	īcati⊡n:	n	one
Are climatic □□□dr□□	gic c⊡nditi⊡ns ⊡n t	t⊑e site t⊡ical ⊞r t⊡s time	□□□ear□		Yes	K N□		(i⊡n□, ex□a	in in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊡I	_N□r H⊡dr□□g□	N signitica	antl□distur⊡ed□	Are	e "N⊡rmal Circum	nstances" 🗆	resent□	Yes	sN□ <u>X</u>
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H⊡dr□□g□	N naturall	□ □r□□lematic□	(i□	needed, ex⊐ain a	an□ans□er	s in Remar	s)	
CUMMARY OF	FINDINGS	Attack site were als			4: 4			_4	_	
SUMMARY OF	FINDINGS	Attach site map sh			cations, trai	nsects, impo	ortant rea	itures, et	c.	
H⊡dr□□□□tic Vegetati	□n Present□	Yes		Х	Is t	t⊡e Sam⊡ed Area	а			
H⊡dric S⊡l Present□		Yes	N□	Х	□it	t⊡n a Wetland□		Υ	es	N□ X
Wetland H⊡dr⊒⊡g□P	resent□	Yes	N□	Х	I	⊡es, □⊑ti□nal □etla	and site ID:	. <u> </u>	N/A	
Remar⊡s:	*Edge of a corr	n field - corn is healthy		None of the we	tland critera ha	ave been met.				
		,								
VEGETATION -	Use scienti∄c	names						S	Sam⊒ing P⊒nt:	T-1 DP-1UPL
		A⊡s⊡ute □	D⊡minant	Indicat⊡r		Dominance T	Test Works	sheet:		
Tree Stratum (PI⊡t si	_e: 30'R) C⊡er	S⊡ecies	Status		Num⊡er □□D□				
1. n/a						T⊑at Are OBL			1	(A)
2.							.,			_('')
3.						T⊡tal Num⊡er	r □⊡D⊡mina	nt		
4.						S⊡ecies Acr⊡	ss All Strata	a:	4	_(B)
5						D 1==D=				
6						Percent □□D□ T□at Are OBL			25%	(AIB)
/ · 		=	T⊡tal C⊡⊑er			I Lat Aic Obl	_, 1 AOW, 🗅	TAO.	2370	_(AB)
						Prevalence In	ndex Work	sheet:		
							tal □ C□⊡e	r 🖽		
	(B) - :-	\				OBL s⊡ecies			x 1 =	
Sa ☐ing S☐ru ☐ Stratur 1. Rhamnus catha		<u>15'R)</u> 10%	Υ	FAC		FACW s⊡ecies FAC s⊡ecies	es		x 2 = x 3 =	
2. Ulmus pumila	irtica	5%	<u> </u>	UPL		FACU s ecies	s		x 4 =	
						UPL s⊡ecies			x 5 =	
4.						C⊡umn T⊡tal:	ls:		(A)	(B)
5										
6						Pre⊡ale	nce Index	BIA =	n/a	
· · 		15% =	T⊡tal C⊡er			Hydrophytic	Vegetation	n Indicators	:	
						, , ,	_		□⊑tic Vegetati⊡n	
						<u> </u>		e Test is ⊡50		
	- FID	,						e Index is ≤		
Her□Stratum (Pl⊡t si 1. Zea mays	<u>□e: 5'R</u>	<u>)</u> 40%	Υ	UPL					ti⊡ns¹ (Pr⊡⊑ide si ∃n se⊑arate s⊑ee	
2. Solidago canad	lensis	40%	<u> </u>	FACU					tic Vegetati⊡n ¹ (I	
3. Phalaris arundi		20%	N	FACW						
4. Daucus carota		10%	N	UPL						
5									d □⊡dr⊡⊡g□mus 	t
6. 7.						⊑e ⊑resent, ι	uniess disti	ırLed Lr LrL	∐ematic.	
-										
10.										
11										
12. 13.										
14.										
l		110% =	T⊡tal C⊡er							
W□⊡d□Vine Stratum	/DI⊏tei⊏e: 30'D	,								
VVIII VIIIE SUALUIII	11 IL SIES. 30 K									
1. n/a										
2.										
3						Hydrophytic				
4			= T⊡tal C⊡er			Vegetation Present?		Yas	Mi	n X
						i resent!		Yes		» <u>х</u>
,		e ⊑r ⊑n a se⊑arate s⊑eet.)								
Hydrophytic vegeta	tion criterion is r	not met.								

Profile Description: (
Tome Description. ((Describe to the depth nee	ded to docun	nent the indicat	or or confirm	the absence	of indicat	ors.)	
De⊡t□	Matrix			Red⊡x Feat	ures			
(inc⊑es)	C□□r (m⊡st)		C□□r (m⊡st)		<u>T⊡e</u> 1	L⊡c ²	Texture	Remar⊡s
0-13	10YR 3/2	100%					si cl loam	
13-15	10YR 3/2	95%	10YR 5/6	5%	С	М	si cl loam	
15-20	10YR 4/3	90%	10YR 5/6	10%	С	M	silty clay	
								-
 -			-					
 -				-				
T⊞e: C=C⊡ncentrati	⊡n, D=De⊡eti⊡n, RM=Reduc	ed Matrix, CS	=C□⊡ered □r C□	ated Sand Gra	ins.	2	L⊑cati⊡n: PL=P⊡re Lir	ning, M=Matrix
landain Childredinatan								2
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T □ e: none De □ t (inc □ es): Remar □ s: Hydric HYDROLOGY Wetland Hydrology Ir Primar □ Indicat □ s (mir Sur □ ace Water (A' Hig □ Water Ta □ e Saturati □ n (A3) Water Mar □ s (B1) Sediment De □ sits (B3) Algal Mat □ C rust Ir □ n De □ sits (B5) Inundati □ n Visi □ e	n/a soil criterion is not met. ndicators: nimum □ne is re uired □ 1 1 (A2) 1 (b2) 1 (ts (B2) 3) 1 (t (B4) 1) 2 (A A A A A A A A A A A A A A A A A A A		Water-Stained Le A⊡atic Fauna (E Frue A⊡atic Plai H⊡dr⊡gen Suliide Oxidi⊡ed R⊡⊡si Presence ⊡Red Recent Ir⊡n Redu T⊡n Muc⊡Suriad Gauge ⊡r Well Di	at13) Ints (B14) Ints (B14)		Hyd		r□Indicat⊡rs (minimum □t□□re□uired) Sur□ace S□I Crac□s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□□s□ Burr□s (C8) Saturat□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□r□c P□sit□n (D2)
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TTE: none Dett (incles): Remars: Hydric HYDROLOGY Wetland Hydrology In Primar Indicatrs (min Suriace Water (A' Hig Water Tale Saturatin (A3) Water Maris (B1) Sediment Detsits (B3) Algal Mat cr Crust In Detsits (B5) Inundatin Viside Sarsel Vegetate	n/a soil criterion is not met. Indicators: Inimum □ ne is re uired □ 1 (A2) Its (B2) Its (B4) Its (B4) Its (B4) Its Aerial Imager □ (B7) Its Conca □ Sur □ ace (B8)		Water-Stained Le A⊡atic Fauna (E Frue A⊡atic Plai H⊡dr⊡gen Suliide Oxidi⊡ed R⊡⊡si Presence ⊡Red Recent Ir⊡n Redu T⊡n Muc⊡Suriad Gauge ⊡r Well Di	ints (B14) nodir (C1) eres in Lidin uced Iran (C4) ictian in Tilled ce (C7) ata (D9) Remaris)		Hyd		r□Indicat⊡rs (minimum □t□□re□uired) Sur□ace S□I Crac□s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□□s□ Burr□s (C8) Saturat□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□r□c P□sit□n (D2)
T □ e: none De □ t (inc □ es): Remar □ s: Hydric HYDROLOGY Wetland Hydrology Ir Primar □ Indicat □ s (mir Sur □ ace Water (A' Hig □ Water Ta □ e Saturati □ n (A3) Water Mar □ s (B1) Sediment De □ sits (B3) Algal Mat □ C rust Ir □ De □ sits (B5) Inundati □ n Visi □ e S □ arsel □ Vegetate Field Observations: Sur □ ace Water Present	n/a soil criterion is not met. ndicators: nimum □ne is re uired □1 1) (A2) its (B2) it (B4) c n Aerial Imager (B7) ed C □nca e Sur ace (B8)		Water-Stained Le A_uatic Fauna (E Frue A_uatic Plai H_dr_gen Sulfide Dxidi_ed R_dr_s Presence □ Red Recent Ir□n Red Gauge □ Well Do Dt□er (Ex□ain in De□t□ (inc□es)	nts (B14) nts (B14) Od r (C1) □eres □ Licin uced Ir □ (C4) ucti □ in Tilled te (C7) ata (D9) Remar □s)		Hyd		r□Indicat⊡rs (minimum □t□□re□uired) Sur□ace S□I Crac□s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□□s□ Burr□s (C8) Saturat□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□r□c P□sit□n (D2)
T = : none De t (inc es): Remar : Hydric HYDROLOGY Wetland Hydrology In Primar Indicat r (mir Sur ace Water (A' Hig Water Tale Saturati n (A3) Water Mar (B1) Sediment De sits (B3) Algal Mat Trust In De sits (B5) Inundati n Visi e Sarsel Vegetate Field Observations: Sur ace Water Present Saturati n Present	n/a soil criterion is not met. ndicators: nimum □ ne is re uired □ 1) s (A2) bt (B2) bt (B4) c n Aerial Imager □ (B7) ed C nca □ Sur ace (B8) t		Water-Stained Le A_uatic Fauna (E Frue A_uatic Plai True A_uatic Plai True A_uatic Plai Dxidi⊡ed R□ Sulfüde Recent Ir⊡n Redu True Well Di Dt⊡er (Ex⊡ain in	nts (B14) nts (B14) Od r (C1) □eres □ Licin uced Ir □ (C4) ucti □ in Tilled te (C7) ata (D9) Remar □s)		Hyd	Sec:nda	rr□Indicat⊡rs (minimum □t□□re□uired) Surlace S⊡I Crac⊡s (B6) Drainage Patterns (B10) Dr□Seas□n Water Ta⊡e (C2) Cra⊡is□Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)
De to (inc es): Remar : Hydric HYDROLOGY Wetland Hydrology In Primar Indicat re (mir Sur ace Water (A' Hig Water Tale Saturati (A3) Water Mar (B1) Sediment De sit (B3) Algal Mat rurst (B5) In De sits (B3) In De sits (B5) In undati rurst visile Saturati rurst visile Saturati rurst rurs	n/a soil criterion is not met. ndicators: nimum		Water-Stained Le A_uatic Fauna (E Frue A_uatic Plai Recent Ir□n Redu Frue Muc□Surfac Gauge □r Well Di Dt□er (Ex□ain in De□t□ (inc□es) De□t□ (inc□es)	nts (B14) nts (B14) odd r (C1) reres r Licin cuced Ir r (C4) cuced Ir r (C4) cuced (C7) ata (D9) Remar s)	S⊡ls (C6)	Hyd	Sec:nda	rr□Indicat⊡rs (minimum □t□□ re□uired) Surïace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡Seas□n Water Ta⊡e (C2) Cra⊡is□ Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P⊡stt□n (D2) FAC-Neutral Test (D5)
TIE: none DeIt (incles): RemarS: Hydric HYDROLOGY Wetland Hydrology Ir Primar Indicators (mir Surface Water (A' Hig Water Tale Saturation (A3) Water Mars (B1) Sediment DeIsit (B3) Algal Mator Crust Ir DeIsits (B3) In DeIsits (B3) In DeUsits (B4) Ir DeUsits (B5) In Undation Visible Solarsel Vegetate Field Observations: Surface Water Present Water Tale Present Saturation Present (includes callilar ining) Descrice Recorded Da	n/a soil criterion is not met. ndicators: nimum □ ne is re uired □ 1 1) 1(A2) 1) 1s (A2) 1) 1s (B4) 1) 2		Water-Stained Le A_uatic Fauna (E Irue A_uatic Plai H_dr_gen Sulfide Dxidi_ed R_d_us Presence □ Recent Ir□n Redu Irun Muc□Surfac Gauge □ Well Di Dt□er (Ex□ain in De□t□ (inc□es) De□t□ (inc□es) De□t□xs, □re□us	nts (B14) nts (B14) odd r (C1) lieres In Lidin uced Ir in (C4) uctin in Tilled se (C7) ata (D9) Remar s)	Sīls (C6)	_	Sec⊡nda	r□Indicat⊡rs (minimum □t□□re□uired) Surʿace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas□n Water Ta⊡e (C2) Cra⊡s□Burr⊡s (C8) Saturati□n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c Pごsti□n (D2) FAC-Neutral Test (D5)
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T = : none De t (inc es): Remar : Hydric HYDROLOGY Wetland Hydrology In Primar Indicat re (mir Sur ace Water (A' Hig Water Ta e Saturati n (A3) Water Mar (B1) Sediment De sits (B3) Algal Mat re Crust Ir n De sits (B5) Inundati n Visie Sarsel Vegetate Field Observations: Sur ace Water Present Water Ta e Present Saturati n Present includes ca allar ring Descri e Rec rede Da JSGS topo map (Figu	n/a soil criterion is not met. ndicators: nimum □ ne is re uired □ 1 1) 1(A2) 1) 1s (A2) 1) 1s (B4) 1) 2	N X X X X X X X X X X X X X X X X X X X	Water-Stained Le Auatic Fauna (E Frue Aluatic Plan Hidrigen Sulfide Dxidified Rifies Presence Ered Recent Irin Redu Gauge Well Di Dtier (Exilain in Dettininces) Dettininces RCS Soils Map	hts (B14) hts (B14) od r (C1) eres □ Licin uced Ir □ (C4) te (C7) ata (D9) Remar □s) ins □ecti □ns), i (Figure 3), Ae	S⊒is (C6) a□aila⊒e: rial Maps fro	_	Sec⊡nda	nr□Indicat⊡rs (minimum □t□□re□uired) Surlace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas□n Water Ta□e (C2) Cra□is□Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P⊡stit□n (D2) FAC-Neutral Test (D5)
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WETLAND DETERMINATION DATA FORM - Midwest Region

Franklin /

Pr⊡ectiSite: Loom	nis Road Parcels			Cit⊡C□unt⊡ Milwaukee	Sam⊡ing Date: October 29, 2014
A□□icantɪ᠐□ner:	Bear Developme	ent, LLC		State: V	/I Sam⊡ing P⊡nt: T-1 DP-2 WTD
In⊡estigat⊡r(s):	Heather D. Patti	, PWS & Tina M. Myers, P	ws	Secti⊡n, T□□nsቯ□, Range:	Section 30, T5N R21E
Land⊞rm (⊑illsI⊟e,	terrace, etc.):	wetland depression		L⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	concave
SI□□e (□): 0%		Lat: See Figure 2	L⊡ng: S	ee Figure 2	Datum: See Figure 2
S⊡l Ma□ Unit Name:	<u> </u>	Ashkum silty clay	loam 0-2% slopes (AsA), Hyd	Iric WWI Clas	siticati⊡n: E2K
Are climatic □□□dr□□	⊒gic c⊡nditi⊡ns ⊡n t⊡	⊡e site t⊡ical ⊞r t⊡s time ⊡	□□ear□	Yes X N□	(i⊡n⊟, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>N</u> S⊡I	N _ □r H⊡dr□□g□	N signi icantl □ distur □ed □	Are "N⊡rmal Circumstances	
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H□dr□□g□	N naturall□ □r □□lematic□	(i⊡needed, ex⊡ain an⊡ans⊡	ers in Remar⊡s)
SUMMARY OF	FINDINGS	Attach site map sho	wing sampling point lo	cations, transects, important fe	eatures, etc.
H⊡dr□□□□tic Vegetati		Yes X		Is t⊡e Sam⊡ed Area	
H⊑dric S⊑il Present□		Yes X		it⊡n a Wetland□	Yes X N□
Wetland H⊡dr□□g□F		Yes X	N =	I□□es, □□ti□nal □etland site	
	TOOGINE .	100		1230, alliand actions of	-
Remar⊑s:					
VEGETATION -	- Use scienti∄c	names ⊞r ⊒ants.			Sam ling P int: T-1 DP-2 WTD
		A⊡s⊡ute □	D⊡minant Indicat⊡r	Dominance Test Wor	ksheet:
Tree Stratum (PI⊡t si	i⊡e: 30'R) C□□er	S⊡ecies Status	Num⊡er □□D□minant S	
1. Malus pumila		10%	Y UPL	T⊑at Are OBL, FACW,	
2.					, , ,
3.				Tital Numier iiiDimi	
4				S⊑ecies Acr⊑ss All Str	(B)
6.				Percent □□D□minant S	G⊑ecies
7.				T⊡at Are OBL, FACW,	□r FAC: 75% (A⋅⋅B)
		10% =	T⊑tal C□⊑er		
				Prevalence Index Wo T⊡tal □ C□	
				OBL s⊑ecies	x 1 =
Sa⊡ingเ\$⊡ru⊟Stratu	um (PI⊡t si⊡e:	15'R)		FACW s⊡ecies	x 2 =
1. Viburnum lenta	ago	5%	Y FAC	FAC s⊡ecies	x 3 =
2. 3.				FACU s⊡ecies UPL s⊡ecies	x 4 =
				C⊟umn T⊡tals:	x 5 =(A) (B)
6.				Pre⊡alence Inde	x BIA = n/a
7		<u> </u>	T⊡tal C⊡er	Hydrophytic Vegetat	ion Indicators
			i dai oddi		est ⊞r H⊡dr□□□tic Vegetati□n
					nce Test is ⊡50⊡
					nce Index is ≤ 3.0 ¹
Her□ Stratum (PI□t s 1. <i>Calamagrostis</i>) 60%	Y OBL		l⊏gical Ada⊑tati⊡ns¹ (Pr⊡ide sul⊟⊐rting n Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. Phalaris arund		30%	Y FACW		natic H⊡dr⊡⊡⊑tic Vegetati⊡n¹ (Ex⊟ain)
3. Carex stricta		20%	N OBL	_	3 (,
4. Solidago cana	densis	5%	N FACU	1	
5. 6.		-			⊡l and □etland ⊡dr⊡ g□ must stur⊡ed ⊡r ⊡r⊡⊟ematic.
7.		-		Le desent, unless un	stulled in indefination.
8.					
l					
12.		-			
13.					
14.					
		115% =	T⊡tal C⊡er		
W□⊡d□Vine Stratum	n (Pl⊡t si⊡e: 30'R)			
1. Vitis riparia		3%	N FACW		
2.			17011		
3.				Hydrophytic	
4		20/	- Tetal Celes	Vegetation	Voc. V. No.
		3%	= T⊡tal C⊡⊡er	Present?	Yes X No
		□r □n a se⊡arate s⊡eet.)			
Hydrophytic vegeta	ation criterion is m	et. Plant community is a	native sedge meadow transition	oning to shallow marsh.	

SOIL								Sam⊡ing P⊡nt: T-1 DP-2 WT
Profile Description:	(Describe to the depth need	ded to docun	nent the indicator	or confirm th	he absence of	indicato	rs.)	
De⊡t□	Matrix			Red⊡x Feat	ures			
(inc⊡es)	C□□r (m⊡st)		C□□r (m⊡st)		<u>T</u> ⊞e ¹	L⊡c ²	Texture	Remar⊡s
0-12	10YR 3/1	90%	7.5YR 5/6	10%	С	М	si cl loam	
					-			
						. ——		
						. —		
¹ T⊞e: C=C⊡ncentrati	i⊑n, D=De⊟eti⊡n, RM=Reduc	ed Matrix, CS	=C⊡ered □r C□ate	ed Sand Grain	ıs.	² l	∟⊑cati⊡n: PL=P⊡re L	ining, M=Matrix
Hydric Soil Indicator	rs:						Indicators for I	Problematic Hydric Soils ³ :
Hist⊑s⊟ (A1)	-		Sand□Gle⊡ed Mat	trix (S4)				Prairie Red⊡x (A16) (LRR,K,L,R)
Histic E⊡⊡ed⊡n ((A2)		Sand □ Red □x (S5)	. ,				urlace (S7) (LRR,K,L)
Blac□Histic (A3)	· ,		Stri □□ed Matrix (S					uc⊞ ⊑eat ⊡r ⊑eat (S3) (LRR,K,L)
H⊡dr⊡gen Sulūde	e (A4)		L⊡am□Muc⊞Min	eral (F1)				anganese Masses (F12)(LRR,K,L,R)
Strati∄ed La⊡ers	` '		L⊑am□ Gle ⊑ed Ma	. ,				⊑all□□ Dar□Sur⊑ace (TF12)
2 cm Muc (A10)	,		De □eted Matrix (F	,			Ot⊡er (Ex⊡ain in Remar⊡s)
	Dar□Sur⊡ace (A11)		Red □x Dar □ Sur □	. ,				
T ic Dar Sur a	, ,		De □eted Dar □ Sur	. ,				
Sand□Muc⊞Mi	rierai (ST)		Red □x De □ressi □r	is (Fo)				
							3 Indicators occ	_dr□□□⊒tic e⊑egetati⊡n and □etland
								□ □resent, unless distur□ed □r
							□r□□lematic.	Et desent, unioss distal Et d
							a addition.	
Restrictive Layer (if	observed):				1			
T⊞e: none	observeu).							
De⊡t⊟ (inc⊡es):	n/a					Hvd	ric Soil Present?	Yes X No
(/.						,		
Remar⊡s: Hydric	soil criterion is met. Hydric	soil criterio	n was met in upp	er 12 inches	- below that t	oo much	water and profile w	as difficult to observe.
HYDROLOGY								
Wetland Hydrology I	Indicators:						Sec⊡no	lar□Indicat⊡rs (minimum □□t□□re□uired)
Primar□Indicat⊡rs (m	inimum □□□ne is re□uired□c□	ec□all t⊡at a□				_		Surace S il Crac s (B6)
Sur ace Water (A	\1)		Water-Stained Lea	a⊑es (B9)				Drainage Patterns (B10)
X Hig□ Water Ta ☐	e (A2)		A⊡uatic Fauna (B1	,				Dr⊡-Seas⊡n Water Ta⊡e (C2)
X Saturati⊡n (A3)			True A⊡uatic Plant	ts (B14)				Cra⊡is□Burr⊡s (C8)
Water Mar⊡s (B1	*		H⊑dr⊑gen Sulûde	. ,				Saturati⊡n Visi⊡e
Sediment De □s			Oxidi ⊡ed R ⊡ ⊡s □		g R⊟⊒ts (C3)			Stunted □r Stressed Plants (D1)
Dri t De □□sits (B	,		Presence □□Redu				X	Ge m r ic P siti n (D2)
Algal Mat □r Crus			Recent Ir □n Reduc		S⊟ls (C6)		X	FAC-Neutral Test (D5)
Ir⊡n De⊟⊑sits (B	,		Tin Muc Surface	. ,				
	e ⊡n Aerial Imager□(B7)		Gauge □r Well Dat Ot□er (Ex□ain in F					
S∟arsei⊔ vegeta	ted C⊡nca⊡e Sur⊡ace (B8)		Ot∟er (Ex⊔ain in F	kemar∟s)				
=								
Field Observations:								
Surface Water Preser		N□ X	De t (inc es):		-			
Water Ta⊡e Present□ Saturati⊡n Present□	Yes X Yes X	N =	De t (inc es): De t (inc es):	<u>3"</u> 0"	-		Matte	nd Hydrology Procent? Voc. V
(includes ca⊡llar ☐ Irin		N =	Della (Incles).		-		vvetia	nd Hydrology Present? Yes X No
		اما مصناما ا		e⊏ecti⊏nc\ :□-	a⊏aila ⊟o:			
	ata (stream gauge, m⊡nit⊡ring					2000 00	NE 2010 2010	(Figures 4A D)
	gure 1), 1-foot contour map , NOAA's AHPS map (Figure					2000, 20	703, 2010, and 2013	(i iguies 4A-D),
. (3. , 5,		,,	.,					
							the growing seaso	

WETLAND DETERMINATION DATA FORM - Midwest Region

Franklin /

Pr⊡ectiSite: Loom	nis Road Parcels			Cit□	C□unt□: Milwaukee	Sa	am⊡ing Date: October 29,	2014
A□□icantɪO□ner:	Bear Developm	ent, LLC			State:	WI	Sam⊡ing P⊡nt	: T-2 DP-3 UPL
In⊑estigat⊡r(s):	Heather D. Patt	i, PWS & Tina M. Myers, P	ws		Secti⊡n, T□□ns⊡□, F	Range: S	Section 30, T5N R21E	
Land⊡rm (⊡llsl⊡e, t	terrace, etc.):	backslope		L⊡cal re	elie⊑(c⊡nca⊡e, c⊡n⊡ex,	n⊡ne): s	slightly convex	
SI□□e (□): <u>5%</u>		Lat: See Figure 2		Ling: See Figure	2	_	Datum: See Figure 2	2
S⊡l Ma□ Unit Name:		Ashkum silty clay	loam 0-2% slopes	(AsA), Hydric	V	WWI Classi∄c	cati⊡n: no	one
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t	⊑e site t⊞ical ⊞r t⊟s time □	□□ear□	Ye	s X N□	(i	i⊡n⊟, ex⊟ain in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊟I	_N□r H⊡dr□□g□	N _signi∄cantl□		Are "N⊡rmal Circun		esent□ Yes	s N□ <u>X</u>
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H⊡dr□□g□	N naturall□ □r□	⊟ematic□	(i⊡needed, ex⊡ain	an□ans□ers	in Remar⊡s)	
CUMMARY OF	FINDINGS	A + +						
SUMMARY OF	FINDINGS	Attach site map sho			transects, impo	rtant reati	ures, etc.	
H⊡dr⊡⊡⊡tic Vegetati	i⊑n Present□	Yes		X	ls t⊡e Sam⊡ed Are	:a		
H⊡dric S⊡l Present□		Yes			□it⊡in a Wetland□		Yes	N□ X
Wetland H⊡dr⊒⊡g□P	Present□	Yes	N	Х	I□⊡es, □□ti□nal □etl	land site ID:	N/A	
Remar⊑s:	*Active corn fie	ld - corn is healthy, no cro	on stress					
		tland critera have been me	-					
VEGETATION -	Use scienti∄c	names ⊞r ⊒ants.					Sam⊡ing P⊡nt:	T-2 DP-3 UPL
		A⊡s⊡ute □	D⊡minant I	ndicat⊡r	Dominance ¹	Test Worksh	neet:	
Tree Stratum (PI⊡t si	⊡e: 30'R) C⊡er	S⊡ecies	Status				
1. <i>n/a</i>					Num⊡er □□D፤ T⊡at Are OBL			(A)
2.		 -			I Lat Ale Obl	_, I ACW, □ I		_(^)
3.					T⊡tal Num⊡er	r □□D⊡minant	t	
					S⊑ecies Acr□	ss All Strata:	4	(B)
5								
6		 -			Percent □□D□ T□at Are OBL			(A⊞)
'· 		=	T⊡tal C⊡⊑er		I Lat Ale Obl	_, I ACW, □ I	Z376	_(AID)
					Prevalence I	ndex Works	heet:	
					T	⊑tal □ C⊡er	□□ Multi	<u> </u>
L					OBL s⊡ecies	_	x 1 =	
Sa ling S ru Stratu 1. <i>n/a</i>		15'R)			FACW s⊡ecies FAC s⊡ecies	_	x 2 =	
1. <i>n/a</i> 2.					FAC s⊥ecies	_	x 3 = x 4 =	
					UPL s⊒ecies	_	x 5 =	
					C⊡umn T⊡tal	ls:	(A)	(B)
6					Pre⊡ale	ence Index B	<u>n/a</u>	
/·			T⊡tal C⊡⊑er		Hydrophytic	Vegetation	Indicators:	
					,,	_	⊞r H⊡dr□□□□tic Vegetati⊡n	
					<u> </u>	D_minance	Test is □50□	
							Index is ≤ 3.0 ¹	
Her□ Stratum (PI□t si	i⊡e: 5'R	<u>)</u>	V 115		<u> </u>		cal Ada⊡tati⊡ns¹ (Pr⊡ide su	•
1. Zea mays 2.		90%	Y UF	<u>'L</u>			emar⊡s ⊡r ⊡n se⊡arate s⊡ee c H⊡dr⊒⊒⊒⊡tic Vegetati⊡n¹ (E	
3.					_	TILLICINATIO	That believegetation (E	-A-Jaili)
4.								
5.							and □etland □⊡dr□□g□must	
6					□e □resent,	unless distur	r⊡ed ⊡r ⊡r⊡⊒ematic.	
8.		 -						
		 -						
10								
11.								
12								
13.								
14		90% =	T⊡tal C□⊑er					
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R	<u> </u>						
1. <i>n/a</i>								
2.								
3.					Hydrophytic			
4.					Vegetation			
			= T⊡tal C⊡⊡er		Present?		Yes No	<u> </u>
Remar⊡s: (Include □	□□t□ num ⊑ers ⊑ere	□r □n a se□arate s□eet.)			1			
Hydrophytic vegeta								

SOIL								Sam⊡ing P⊡	int: <u>T-2</u>	DP-3 UPL
Profile Description:	(Describe to the depth need	ded to docum	ent the indicato	or or confirm t	he absence o	f indicate	ors.)			
De⊑t□	Matrix			Red⊡x Feat	ures					
(inc⊡es)	C□□r (m⊡st)		C□□r (m⊡st)		<u>T</u> ⊞e ¹	L⊡c ²	Texture	Remar	ʻ⊡s	
0-10	10YR 3/1	100%					si cl loam			
10-12	10YR 3/1	95%	10YR 5/6	5%	С	М	si cl loam			
12-20	10YR 5/1	90%	10YR 5/6	10%	С	М	silty clay			
					_					
¹ T⊞e: C=C⊡ncentrati	⊡n, D=De⊡eti⊡n, RM=Reduc	ed Matrix, CS	=C⊡ered ⊡r C⊡a	ited Sand Grai	ns.	2	L⊡cati⊡n: PL=P⊡re Li	ning, M=Matrix		
Hydric Soil Indicators	s:						Indicators for P	roblematic Hydric Soils ³	:	
Hist⊡s⊒ (A1)		9	Sand□Gle⊑ed Ma	atrix (S4)			C⊡ast P	rairie Red⊡x (A16) (LRR,K	.,L,R)	
Histic E⊡i⊒ed⊡n (A	A2)		Sand□Red⊡x (S5					rīace (S7) (LRR,K,L)		
Blac□Histic (A3)			Stri⊐⊑ed Matrix (S	,				uc⊞ ⊡eat ⊡r ⊡eat (S3) (LRF		
H⊑dr⊑gen Sultide			_□am□ Muc □□ Mii	. ,				nganese Masses (F12) (LF		
Stratited Laters (2 cm Muct (A10)			₋⊑am□ Gle⊡ed Ma De⊡eted Matrix (all⊡∷ Dar⊡Surखce (TF12) Ex⊟ain in Remar⊡s)		
	Dar⊟Sur⊡ace (A11)		Red⊡x Dar⊟Surí				O(E)	zxadiii iii rtomara)		
T⊡c□Dar□Sur⊡a	ce (A12)		De⊡eted Dar⊡Sເ	ur⊡ace (F7)						
Sand□Muc⊞Mir	neral (S1)		Red⊡x De⊡ressi□	ns (F8)						
							3			
								dr⊒⊒⊒tic e⊡egetati⊡n and ⊒e ⊡resent, unless distur⊒e		
							□r□□lematic.	_c _cocnt, unicoo diotal _c	u u	
Restrictive Layer (if o	observed):									
T⊡e: <u>none</u>										
De ⊒t□ (inc ⊑es):	n/a					Hyd	ric Soil Present?	Yes	No X	
Pomor⊡o: Hudrio	coil critorion is not mot									
Remar⊡s: Hydric	soil criterion is not met.									
HYDROLOGY										
M-41	di						0		**********	-1\
Wetland Hydrology II Primar⊟Indicat⊟rs (mi	ndicators: nimum □□□ne is re□uired□c□e	ec⊟all t⊏at a⊟	10				Securio	ar□Indicat⊡rs (minimum ⊡ Sur⊡ce S⊡l Crac⊡s (B6		1)
Sur ace Water (A			<i>⊐⊐</i> Water-Stained Le	a [ac (B0)		_		Drainage Patterns (B10		
Hig□ Water Ta ☐e	, ·		Nater-Stained Le N⊑uatic Fauna (B					Drainage Fatterns (B10 Dr⊡-Seas⊡n Water Ta□		
Saturati⊡n (A3)	. (-)		Γrue A⊡uatic Plar					Cra □is □ Burr □□s (C8)	- ()	
Water Mar⊡s (B1))		H⊑dr⊑gen Sul∄de	od⊡r (C1)				Saturati⊡n Visi⊟e ⊡n Ae	rial Imager	(C9)
Sediment De □:si	· ·		Oxidi⊡ed R⊡⊡s□					Stunted □r Stressed Pla		
Drift De □sits (B3			Presence □□Redu					Ge □m □r □□ic P □siti □n (□	2)	
Algal Mat ☐r Crus			Recent Ir⊡n Redu F⊡n Muc⊟Sur⊡c		S⊔ls (C6)			FAC-Neutral Test (D5)		
Ir⊡n De⊡sits (B5 Inundati⊡n Visi⊟e	o) e ⊑n Aerial Imager⊟(B7)		auge ⊑r Well Da	, ,						
	ted C⊡nca⊡e Sur⊡ace (B8)		Ot⊡er (Ex⊟ain in							
	,		,	,						
Field Observations:										
Surace Water Presen	ıt□ Yes	N□ X	De t (inc es):	:						
Water Ta⊟e Present□		N□ X	De □t □ (inc □es):		_					
Saturati⊡n Present□	Yes	N□ X	De <u>I</u> t □ (inc <u>l</u> es):	:	- -		Wetlan	d Hydrology Present?	Yes	No X
(includes ca⊡illar□ īːino	-									
-	ata (stream gauge, m⊡nit⊡rino									
	ure 1), 1-foot contour map					2000, 20	005, 2010, and 2013	(Figures 4A-D),		
TTTT map (Figure 5),	NOAA's AHPS map (Figure	o oj, Local W	LIJ IANIE, AIIU I	i on ciop siic	46.					
Remar⊑s: Wetlan	nd hydrology criterion is no	t met.								

Pr⊡ectiSite: Loom	nis Road Parcels			Cit⊡C□unt⊡ Milwaukee Sam⊡ing Date: October 29, 2014				
A□□icantɪO□ner:	Bear Developm	ent, LLC		State: W	/I Sam ling P int: T-2 DP-4 WTD			
In⊑estigat⊡r(s):	Heather D. Patti	i, PWS & Tina M. Myers, P	ws	Secti⊡n, T⊡□ns⊡□, Range:	Section 30, T5N R21E			
Land⊡rm (⊡llsl⊡e, t	terrace, etc.):	wetland depression	_	L cal relie (c nca e, c nex, n ne):	slightly concave			
SI□□e (□): 0 %		Lat: See Figure 2	L⊡ng: See	Figure 2	Datum: See Figure 2			
S⊡l Ma□ Unit Name:		Blount silt loam, 1-	3% slopes (BIA), Hydric Inclsuio		siticati⊡n: none			
Are climatic □□□dr□□	aic c⊡nditi⊡ns ⊡n t	e site t⊡ical ⊞r t⊡s time □	□□ear□	Yes X N□	(i⊡n⊟, ex⊟ain in Remar⊡s)			
Are Vegetati⊡n	*Y S⊡I	N ⊡r H⊡dr⊡⊡g⊟	N signiticantl distur ed	Are "N⊡rmal Circumstances'	,			
Are Vegetati⊡n	N S⊡I	N □r H□dr□□g□	**Y naturall□ □r□□lematic□	(i⊡needed, ex⊡ain an□ans□				
J		<u> </u>		,	,			
SUMMARY OF	FINDINGS	Attach site map sho	wing sampling point loca	itions, transects, important fe	atures, etc.			
H⊡dr□□□□tic Vegetati	i⊏n Present⊓	Yes	N□ *X	Is t⊡e Sam⊡ed Area				
H⊑dric S⊑il Present□		Yes X	No	is ti⊒s damilied / tred	Yes X N□			
Wetland H⊡dr⊡ g □ F		Yes X	N□	I□□es, □□ti□nal □etland site I				
Welland Hillians	resent_	1 es <u>X</u>	Nu	illes, lilliai letiand site i	U. W-1			
Remar⊡s:	*Active agricult	ural field - corn planted th	nis year which is stressed due to	wetness				
	**Seasonal hyd	rology						
VECETATION	Llee esientide	namaa IIIr Hanta			0 5 05 1 7000 1987			
VEGETATION -	· Use scientific	names			Sam⊡ing P⊡nt: T-2 DP-4 WTD			
T Ott (DISt -:	: 20ID	A⊡s⊟ute □	D⊡minant Indicat⊡r	Dominance Test Wor	ksheet:			
Tree Stratum (PI⊡t si	ILE: 30'R) <u>C⊡er</u>	S⊡ecies Status	Num⊡er □□D⊡minant S	STacias			
1. n/a				T⊑at Are OBL, FACW,				
								
				T⊡tal Num⊡er ⊡⊡D⊡mi	nant			
				S⊡ecies Acr⊡ss All Str	ata: 1 (B)			
5.					<u></u> -			
				Percent □□D□minant S				
7			Total Occasion	T⊡at Are OBL, FACW,	□r FAC:(A·· B)			
		=	T⊡tal C⊡⊑er	Prevalence Index Wo	arka hoot:			
				T tal C				
				OBL s⊡ecies	x 1 =			
Sa⊟ingเ\$⊡ru□Stratu	ım (Pl⊑t si⊑e:	15'R)		FACW s⊒ecies	x 2 =			
1. <u>n/a</u>				FAC s⊡ecies	x 3 =			
2.				FACU s⊡ecies	x 4 =			
				UPL s⊑ecies	x 5 =			
				C⊡umn T⊡tals:	(A) (B)			
I =				Pre ⊡alence Inde	x BЉ = n/a			
7				Fre_alence inde	K BLA – III/a			
· · -		=	T⊡tal C⊡⊑er	Hydrophytic Vegetati	ion Indicators:			
					est ⊞r H⊡dr⊒⊐⊒tic Vegetati⊡n			
					nce Test is □50□			
					nce Index is ≤ 3.0 ¹			
Her□ Stratum (PI□t si	i⊡e: 5'R				□gical Ada □tati □ns¹ (Pr□□ide su □□□rting			
1. Zea mays		80%	Y UPL		n Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)			
2. 3.				Prillem	natic H⊡dr□□□⊒tic Vegetati⊡n¹ (Ex⊡ain)			
4								
5.				¹ Indicat⊡rs □□□□dric s	ାଁ and □etland ⊡dr⊡⊑g□must			
6.					stur⊡ed ⊡r ⊡r⊡⊟ematic.			
7.				· ·				
8.								
9								
10								
11.								
13. 14.								
17.		80% =	T⊡tal C⊡er					
W□⊡d□Vine Stratum	ı (Pl⊡tsi⊡e: 30'R)						
I . 								
1. <u>n/a</u>		· ——						
2.		- ——		Hydronbytic				
3		· —		Hydrophytic Vegetation				
-T.			= T⊡tal C⊡er	Present?	Yes No_*X_			
								
,		□r □n a se⊡arate s⊡eet.)	<u> </u>					
Atypical situatuion	- corn is planted I	nere, but is stressed and	stunted due to wetness.					

SOIL T-2 DP-4 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features (inc □es) C□□r (m ist) C□□r (m ist) L □c² **Texture** Remar s 10YR 3/1 0-6 100% si cl loam 6-12 10YR 3/1 95% 10YR 5/6 М silty clay 12-20 10YR 5/1 90% 10YR 5/6 10% М silty clay ²L□cati□n: PL=<u>P□re Lining, M=Matrix</u> T⊡e: C=C □ncentrati □n, D=De □eti □n, RM=Reduced Matrix, CS=C □ered □r C □ated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red □x (A16) (LRR,K,L,R) Sand ☐ Gle ☐ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed □n (A2) Sand □ Red □x (S5) Dar□Sur@ce (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H dr gen Sulide (A4) L□am□Muc□□Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am □ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red x Dar Sur ace (F6) T⊓ic□Dar□Surace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat⊡rs □□□□dr□□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none De t (inc es): <u>n/a</u> **Hydric Soil Present?** Yes X No Remar s: Hydric soil criterion is met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar Indicat_rs (minimum __t _ re_uired) Sur ace S il Crac (B6) Primar□Indicat⊡rs (minimum □□□ne is re□uired□c□ec□all t□at a□□□) Drainage Patterns (B10) Sur ace Water (A1) Water-Stained Lea Es (B9) Hig□ Water Ta ☐e (A2) A □uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta ☐e (C2) Saturati⊡n (A3) True A uatic Plants (B14) Cra is Burr s (C8) Saturati⊡n Visi⊡e ⊡n Aerial Imager (C9) Water Mar (B1) H⊑dr gen Sultide Od (C1) Sediment De□sits (B2) Oxidi ed R = seres en Li ing R = ts (C3) Stunted T Stressed Plants (D1) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge m □r □ □ ic P □ siti □ n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) Tin Muc□Surace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) X S arsel Vegetated C nca e Sur ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta le Present l Yes NΠ Χ De □t□ (inc □es): Saturati⊡n Present⊡ De t (inc es): Wetland Hydrology Present? Yes X includes ca⊑illar□ īringe Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊑s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊑a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide: Remar s: Wetland hydrology criterion is met. Farmed wetland portion of W-1. Visible on most FSA slides and spring aerials.

Pr⊡ectiSite: Loom	is Road Parcels				Cit⊡C□unt□: Milwaukee	S	am⊡ing Date: October 29, 2014
A□□licantiO□ner:	Bear Developme	nt, LLC			State:	wı	Sam⊡ing P⊡nt: T-3 DP-5 UPL
In⊑estigat⊑r(s):	Heather D. Patti,	PWS			Secti⊡n, T□□ns⊡□, F	Range: 5	Section 30, T5N R21E
Land □rm (□illsl □□e, to		ackslope		L	cal relie⊑(c⊑nca⊑e, c⊑n⊑ex,		convex
SI□□e (□): 10%	· / <u>-</u>	Lat: See Figure 2		L⊡ng: See Fi	•	- / -	Datum: See Figure 2
S⊡I Ma Unit Name:			loam 0-2% sld	opes (AsA), Hydric		— WW/ Classifit	cation: none
		e site t⊡ical ⊞r t⊡s time □		opeo (AoA), Hyano	Yes X N□		(i∟n∟, ex⊟ain in Remar⊑s)
Are Vegetati⊡n	yıc c⊡idili⊒is ⊡it⊟ N S⊡İ			antl□distur⊡ed□	Are "N⊡rmal Circur		
Are Vegetati⊡n	N Sil	Nr Hdr		□ □r□□lematic□	(i⊡needed, ex⊟ain		
Ale vegetation		u muduugu	- II		(IIIIeeded, exilalii	anlansicis	in Remai 3)
SUMMARY OF I	FINDINGS A	ttach site map sho	wing samp	ling point location	ons, transects, impo	ortant feat	ures, etc.
H⊡dr⊒⊒⊒tic Vegetati	n Present⊓	Yes X	N _□		ls t⊡e Sam⊡ed Are	02	
H⊑dric S⊑il Present□				х	□it⊡in a Wetland□		Voc. N□ V
Wetland H⊑dr⊟⊑g□P		Yes					YesN□X
welland n_dru_g_P	resent	Yes	IN□	X	I□⊑es, □□ti□nal □et	liand site iD.	N/A
Remar⊡s:	Does not meet a	I three wetland criteria.					
VEGETATION -	Lloo opionti⊕o n	amaa IIIr Ilanta					Constitute Defeate T a DD 5 UDI
VEGETATION -	Ose scientilic n		D= : .				Sam⊡ing P⊡nt: T-3 DP-5 UPL
Tree Stratum (PI⊡t si	_a. 30'B \	A⊡s⊡ute □ C⊡⊑er	D⊡minant S⊡ecies	Indicat⊡r Status	Dominance	Test Worksh	neet:
Tree Stratum (FILL SIL	e. 30 K	Cilei	3_ecies	Status	Num⊟er ⊟□D	o D⊑minant S⊟eo	cies
1. Fraxinus penns	sylvanica	5%	Υ	FACW		BL, FACW, □r I	
2.							
3.						er □□D□minan	
4					S⊡ecies Acr	□ss All Strata:	. 7 (B)
5					D+ ==D	N===1= ==4 O===	-:
6			_)⊡minant S⊡ed BL, FACW, ⊡r I	
'· 		5% =	Γ⊑tal C⊟⊑er		TEATAIC OB	L, I AOW, D	(AB)
					Prevalence	Index Works	sheet:
					T	⁻⊑tal □ C□⊑er	Multidocc Multidocc
					OBL s ⊡ecies	; <u> </u>	x 1 =
Sa⊡ingเ\$⊡ru□Stratur	m (PI⊡t si⊡e:	15'R)			FACW s⊡eci	_	x 2 =
1. Rhus typhina		40%	<u>Y</u>	UPL	FAC s⊡ecies	_	x 3 =
Cornus racemo Crataegus crus		20% 10%	N Y	FAC FAC	FACU s⊡ecies UPL s⊡ecies	_	x 4 =
4. Rhamnus catha		3%	N N	FAC	C⊟umn T⊡ta	_	x 5 =(A) (B)
5.				THO	OBdilli Fad		(,, (,,
6.					Pre⊡ale	ence Index B	3
7.							
		73% =	Γ⊡tal C⊟⊑er		Hydrophytic	c Vegetation	
					_		⊞r H⊡dr□□□tic Vegetati⊡n
					 		e Test is ⊡50□ e Index is ≤ 3.0 ¹
Her□ Stratum (Pl⊡t si	⊑e: 5' R)			-		cal Ada⊡tati⊡ns¹ (Pr⊡ide su⊡⊟rting
1. Fragaria virgini		20%	Υ	FACU	-	-	emar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. Poa pratensis		10%	Υ	FAC	<u></u>	Pr⊡⊒ematic	c H⊡dr□□□□tic Vegetati⊡n¹ (Ex⊡ain)
3. Potentilla simpl	lex	10%	Υ	FACU			
4. Spartina pectin		10%	Y	FACW	1		
5. Gentiana andre		5%	N N	FACW			and □etland □⊡dr⊡⊡g□must
6. Lonicera x bella 7.	a	5%	N	FACU	Le ∟resent,	uniess distur	r⊡ed ⊡r ⊡r⊟⊒lematic.
8.							
4.0							
11.							
13.							
14		60% =	Γ⊑tal C□⊑er				
		0070					
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R	<u>)</u>					
. 							
1. <u>n/a</u>							
2. 3.					Hydrophytic		
4.					Vegetation	•	
· · ·			= T⊡tal C□⊡er		Present?		Yes X No
							
		r ⊡n a se⊡arate s⊡eet.)	_				
Hydrophytic vegetat	tion criterion is no	t met. Plant community	is an upland s	hrub thicket with pra	urie understory.		

SOIL								Sam⊒ing P⊒int	T-3 DP-5 UPL
Profile Description: (Describe to the depth need	led to docum	ent the indicato	r or confirm t	he absence o	f indicate	ors.)		
De⊡t□	Matrix		Red⊡x Features						
(inc⊡es)	C□□r (m⊡st)		C⊟⊡r (m⊡st)		<u>T⊞e¹</u>	L □c ²	Texture	Remar	3
0-12	10YR 3/1	100%					si cl loam		
12-20	10YR 5/1	90%	10YR 5/6	10%	с	M	silty clay		
								-	
<u> </u>			-						
-	_		i.	i	-				
-					-				
-					-				
 -			-						
<u> </u>				-	-			-	
<u> </u>				-	-			-	
	_								
¹ T⊟e: C=C⊡ncentrati⊡	_n, D=De⊒eti⊡n, RM=Reduce	ed Matrix CS=	:C⊟ered □r C□a	ted Sand Grai	ns	2	L⊡cati⊡n: PL=P⊡re Liı	ning M=Matrix	
		od Matrix, OC	OHERICA H OHA	tou ouriu orur	10.			•	
Hydric Soil Indicators	3:	_						roblematic Hydric Soils ³ :	
Hist⊡s ☐ (A1)	10)		Sand□Gle⊡ed Ma					airie Red⊡x (A16) (LRR,K,L	.,R)
Histic E □ □ed □n (A Blac □ Histic (A3)	42)		Sand□Red⊡x (S5 Stri□⊑ed Matrix (S	,				:īace (S7) (LRR,K,L) c⊞ ⊡eat ⊡r ⊡eat (S3) (LRR ,I	KI)
H⊑dr⊑gen Sultide	(A4)		.⊑am□Muc⊞ Mir					iganese Masses (F12) (LRR	
Stratiûed La⊡ers (A			.⊑am□Gle⊑ed Ma					all □ Dar Sur ace (TF12)	,
2 cm Muc□(A10)			e⊒eted Matrix (Ot⊡er (E	x⊒ain in Remar⊡s)	
De ⊟eted Bel □□ D	, ,		Red⊡x Dar□Sur[. ,					
T⊡c□Dar□Sur⊡c Sand□Muc⊡Min	, ,		De⊟eted Dar⊟Su Red⊡x De⊡ressi⊡	. ,					
	()			()					
							³ Indicat⊡rs □□□□	dr□□□tic e ⊑egetati⊡n and □	etland
							•	e ⊡resent, unless distur⊡ed	□r
							□r□□lematic.		
Dantaintina I ama (if a	L =				1				
Restrictive Layer (if o T⊞e: none	observed):								
De⊡t□ (inc⊡es):	n/a					Hvd	Iric Soil Present?	Yes	No X
. , ,						,			
Remar⊑s: Hydric	soil criterion is not met.								
HYDROLOGY									
HIDROLOGI									
Wetland Hydrology In	ndicators:						Sec⊡nda	ır□Indicat⊡rs (minimum □⊑tî	□ re □uired)
Primar□Indicat⊡rs (min	nimum □□□ne is re□uired□c□e	ec□all t⊡at a⊡	10)			_		_ Sur⊡ace S⊡l Crac⊡s (B6)	
Sur ace Water (A1	'		Vater-Stained Le					_ Drainage Patterns (B10)	
Hig□Water Ta□e	(A2)		∖⊡uatic Fauna (B				-	_ Dr⊡-Seas n Water Ta le	(C2)
Saturati⊡n (A3) Water Mar⊡s (B1)			rue A⊡uatic Plar I⊡dr⊡gen Sultide					_ Cra⊡îs□Burr□□s (C8) _ Saturati⊡n Visi⊡e	al Imager⊟(C0)
Sediment De sits			oxidi⊡ed R⊡⊡s⊡		a R□ts (C3)			Stunted © Stressed Plant	
Dri t De □sits (B3)	· '		resence □□Redu					 Ge□m□r□□ic P□siti□n (D2)	
Algal Mat □r Crust	t (B4)	F	Recent Ir⊡n Redu	ıcti⊡n in Tilled	S⊡ls (C6)			FAC-Neutral Test (D5)	
Ir⊡n De□⊡sits (B5)			⊡n Muc□Sur⊡c						
	□n Aerial Imager□(B7)		Gauge ⊡r Well Da						
S_arsei vegetate	ed C⊡nca⊡e Sur⊡ace (B8)	—)t⊡er (Ex⊡ain in	Remar∟s)					
Field Observations:			5 " - \						
Sur⊡ace Water Present Water Ta⊟e Present□	t□ Yes Yes	N□ X N□ X	De t (inc es): De t (inc es):		=				
Saturati⊡n Present□	Yes	N X	De t (inc es):		-		Wetlan	d Hydrology Present?	res No X
(includes ca⊡llar□ ring			,)		-			, ,,	
Descri⊡e Rec⊡rded Da	ta (stream gauge, m⊡nit⊡ring	j □ell, aerial □	⊒⊑t⊡s, ⊡re⊡⊡us ii	ns⊡ecti⊡ns), i⊡	a⊑aila⊟e:				
	ure 1), 1-foot contour map					n 2000, 2	2005, 2010, and 2013	(Figures 4A-D),	
WWI map (Figure 5),	NOAA's AHPS map (Figure	e 6), Local W	ETS table, and I	SA Crop Slic	les				
n =	11. 1. 1								
Remar⊡s: Wetland	d hydrology criterion is not	met.							

Pr⊡ectiSite: Loon	nis Road Parcels			Cit⊡C□unt⊡ Milwaukee	Sam⊡ing Date: October 29, 2014
A□□licantiO□ner:	Bear Developme	ent, LLC		State: V	VI Sam⊡ing P⊡nt: <u>T-3 DP-6 WTD</u>
In⊑estigat⊡r(s):	Heather D. Patti	, PWS & Tina M. Myers, P	ws	Secti⊡n, T□□ns⊡□, Range:	Section 30, T5N R21E
Land⊞rm (⊑illsI⊐⊒e,	terrace, etc.):	wetland depression		L⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	concave
SI□□e (□): 0%		Lat: See Figure 2	L⊡ng: S	See Figure 2	Datum: See Figure 2
S⊡l Ma□ Unit Name	: <u> </u>	Ashkum silty clay	loam 0-2% slopes (AsA), Hyd	dric WWI Clas	ssi⊡cati⊡n: E2K
Are climatic □□dr□	⊑gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡s time □	□□ear□	Yes X N□	(i⊡n□, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H⊡dr□□g□	N signi icantl □ distur □ed □	Are "N⊡rmal Circumstances	
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H□dr□□g□	N naturall□ □r □□lematic□	(i⊡needed, ex⊡ain an⊡ans⊡	lers in Remar⊡s)
SUMMARY OF	FINDINGS	Attach site map sho	wing sampling point lo	cations, transects, important fe	eatures, etc.
H⊑dr⊒⊒⊒tic Vegetat				Is t⊡e Sam⊡ed Area	
HEdric SEI Present		Yes X Yes X		is t∟e sam⊔ed Area	Yes X N□
Wetland H⊡dr⊡ □g □ F		Yes X	N□	I⊡es, □ti□nal □etland site	
	TOSCINE	103 <u>X</u>	Nu	TEES, ELIETAI ECIANO SIC	
Remar⊡s:					
VEGETATION -	- Use scienti∄c	names ⊞r ⊒ants.			Sam ling P int: T-3 DP-6 WTD
		A⊡s⊒ute □	D⊡minant Indicat⊡r	Dominance Test Wo	rksheet:
Tree Stratum (PI⊡t s	i⊡e: 30'R	<u>C□⊡er</u>	S⊡ecies Status	Num⊡er □□D□minant \$	
1. <i>n/a</i>				T⊑at Are OBL, FACW,	
2.				, , ,	(/
3.				T⊡tal Num⊡er ⊡⊡D⊡mi	
4				S⊡ecies Acr⊡ss All Str	rata: <u>3</u> (B)
6.				Percent □□D□minant S	S⊺ecies
7.				T⊑at Are OBL, FACW,	
		=	T⊡tal C⊡er		· · · ·
				Prevalence Index Wo T⊡tal □ C□	
				OBL s⊡ecies	x 1 =
Sa⊡ingเ\$⊡ru⊡Stratu	um (PI⊡t si⊡e:	15'R)		FACW s⊡ecies	x 2 =
1. Cornus alba		10%	Y FACW	FAC s⊡ecies	x 3 =
Cornus racem Viburnum lent		<u>10%</u> 5%	Y FAC N FAC	FACU s⊡ecies UPL s⊡ecies	x 4 =
4. Rhamnus cath		3%	N FAC	C⊟umn T⊡tals:	x 5 = (A) (B)
5.					
6				Pre⊡alence Inde	x B[A =
7		28% =	T⊡tal C⊡er	Hydrophytic Vegetat	ion Indicators:
		2070 -	T Lai O LCi		est ⊞r H⊑dr⊒⊒⊑tic Vegetati⊑n
					nce Test is □50□
					nce Index is ≤ 3.0 ¹
Her□ Stratum (PI⊡t s 1. Spartina pectii		<u>)</u> 95%	Y FACW		l⊡gical Ada⊡tati⊡ns¹ (Pr⊡ide su⊡⊟rting n Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. Carex stricta	nata	10%	N OBL		natic H⊡dr⊡⊡tic Vegetati⊡n¹ (Ex⊡ain)
3. Juncus torrey	i	5%	N FACW	<u> </u>	• , ,
4				1	
5. 6.					cil and □etland ⊡dr⊡⊡g□must istur⊡ed ⊡r ⊡r⊡⊟ematic.
7.				E Hosein, unioss un	star Est El
8.					
4.0					
13.					
14		110% =	T⊡tal C⊡er		
		11076 -	I Llai Cillei		
	(DI- I- 001				
W□□d□Vine Stratum	1 (PILI SILE: 30'R	<u>_</u>			
1. <i>n/a</i>					
2.					
3.				Hydrophytic	
4			= T⊡tal C⊡er	Vegetation Present?	Yes X No
			🗸	i rossiiti	<u></u>
,		□r □n a se⊡arate s⊡eet.)	notive wat mas down too a 200	ing to challen mare!	
myaropnytic vegeta	ation criterion is m	et. Plant community is a	native wet meadow transition	ing to snallow marsh.	

Remar⊡s —Matrix atic Hydric Soils³:
=Matrix
=Matrix
atic Hydric Soils ³ :
•
ed □x (A16) (LRR,K,L,R)
67) (LRR,K,L)
at ⊡r ⊡eat (S3) (LRR,K,L)
e Masses (F12) (LRR,K,L,R)
ar□Surīace (TF12) n Remarūs)
ic e⊑egetati⊡n and □etland
ent, unless distur⊑ed ⊡r
es X No
cult to observe.
cat⊡rs (minimum □□t□□ re □uired)
ace S⊡l Crac⊡s (B6)
nage Patterns (B10)
Seas⊡n Water Ta⊡e (C2)
tîs□Burr⊡s (C8) rati⊡n Visi⊡e ⊡n Aerial Imager□(C9)
ted ©r Stressed Plants (D1)
m⊑r⊟⊑c P⊑siti⊑n (D2)
-Neutral Test (D5)
ology Present? Yes X No
es 4A-D),
s 4A-D),
e c

Pr⊡ectiSite: Loom	is Road Parcels				Cit□C□unt□ Milwaukee	Sa	m⊒ing Date: October 29, 201	4
A□□licantɪ᠐□ner:	Bear Developm	ent, LLC			State:	WI	Sam⊡ing P⊡nt: T- 4	DP-7 UPL
In⊑estigat⊡r(s):	Heather D. Patt	i, PWS & Tina M. Myers, F	PWS		Secti⊡n, T⊡□ns⊡́□, I	Range: Se	ection 30, T5N R21E	
Land⊞rm (⊡llsl⊟e, t	terrace, etc.):	backslope		L	.⊑cal relie⊑(c⊑nca⊑e, c⊑n⊑ex,	, n⊡ne): sl i	ightly convex	
SI□□e (□): 2-3 %		Lat: See Figure 2		L⊡ng: See F	igure 2	_	Datum: See Figure 2	
S⊡l Ma ☐ Unit Name:		Blount silt loam, 1-	3% slopes (BIA),	Hydric Inclsuions	<u>s</u>	WWI Classi ica	ati⊡n: none	
Are climatic □□□dr□□	gic c⊡nditi⊡ns ⊡n t	⊡e site t⊡ical ⊞r t⊡s time l	□□□ear□		Yes X N□	(i	īn□, ex⊡ain in Remar⊡s)	
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H □dr □ □g □	N signi licant	tl□distur⊡ed□	Are "N⊡rmal Circu	mstances" ⊡res	sent□ Yes >	<u>X</u> N□
Are Vegetati⊡n	<u>N</u> S⊡I	<u>*Y</u> ⊡r H⊡dr⊡⊡g□	<u>N</u> naturall□	r⊟⊒ematic⊟	(i⊡needed, ex⊡ain	ı an□ans□ers i	n Remar⊡s)	
SUMMARY OF	FINDINGS	Attach site man she	wina samnlii	na noint locat	ions, transects, impo	ortant featu	ires etc	
				ig point locat				
H⊑dr□□□□tic Vegetati		Yes X			Is t⊡e Sam⊡ed Are			
H⊡dric S⊡l Present□		Yes X			□it⊡in a Wetland□		Yes	N□ <u>X</u>
Wetland H⊡dr⊡⊡g□P	resent□	Yes	. N□ _	X	l⊡es, ⊡ti⊡nal ⊡el	tland site ID:	N/A	
Remar⊡s:		all three wetland criteria. er historical aerials.	-	rical alteration to Problem soil - dr	hydrology - excavated por ained hydric soil	nd which has	been present since	
VEGETATION -	Use scienti∄c	names ⊞r ⊒ants.					Sam⊡ing P⊡nt:	T-4 DP-7 UPL
Tree Stratum (Pl⊡t si	Fe: 30'R	A⊡s⊡ute □ C□⊑er	D⊡minant S⊡ecies	Indicat⊡r Status	Dominance	Test Workshe	eet:	
.100 Stratum (FILESI	UN	, 01161	O_BUES	Glatus	Num⊡er □□D)⊡minant S⊡eci	ies	
1. Quercus macro	ocarpa	90%	Y	FAC	T⊡at Are OB	L, FACW, 🗆 F	AC: 4 (A))
2					T 111 -			
3.						er □□D□minant □ss All Strata:	4 (B))
5.					OLECIES ACI	, ii Oliala.	(D)	
6.					Percent □□D	⊡minant S⊡eci	es	
7.					T⊡at Are OB	L, FACW, 🗆 F	AC: 100% (A	B)
		90% =	T⊑tal C□⊑er		Provolence	Index Worksh	noot:	
						index worksii ⊡tal □ C□⊑er □		Τ:
					OBL s⊡ecies		x 1 =	<u> </u>
Sa⊡ingเ\$⊡ru□Stratu	m (PI⊡t si⊡e:	15'R)			FACW s⊡eci	ies	x 2 =	<u> </u>
1. Rhamnus catha		100%		FAC	FAC s⊡ecies	_	x 3 =	_
2. Lonicera x bella 3.	_	20%	<u> </u>	FACU	FACU s⊡ecies UPL s⊡ecies		x 4 = x 5 =	_
I . —					C □umn T □ta		(A)	(B)
I							. ,	
					Pre⊡ale	ence Index B	A = <u>n/a</u>	
7		120% =	T⊡tal C⊡⊑er		Hydronbytic	c Vegetation I	ndicatore:	
		12070 -	T Lai C Lei		riyaropiiyii	-	indicators. Ir H⊡dr⊒⊒⊒tic Vegetati⊡n	
					Х	D⊡minance 1	•	
						Pre ⊒alence I		
Her□ Stratum (PI□t si)	v		<u> </u>		al Ada⊡tati⊡ns¹ (Pr⊡ide su⊡⊡	rting
Alliaria petiolat Rhamnus catha		30% 20%		FAC FAC			mar⊡s ⊡r ⊡n se⊡arate s⊡eet) H⊡dr⊡⊐⊒⊑tic Vegetati⊡n ¹ (Ex⊡a	ain)
3. Cornus alba	ar trou	5%		FACW	<u> </u>	T T E E O T I G T I	TIMI DELIGIO VOGORGIETI (EXEC	,
4. Fragaria virgini	iana	5%		FACU				
5. Geum canaden	ise	5%	<u>N</u> !	FAC			nd □etland □⊡dr□□g□must	
6. 7.					Le ∟resent,	uniess distur	led □r □r□□lematic.	
8.								
9.								
4.0								
12. 13.								
14.								
		65% =	T⊡tal C⊡⊑er					
W□⊡d□Vine Stratum	(Pl⊡t si⊡e:_30'R)						
1. <u>n/a</u>	-							
2. 3.					Hydrophytic	•		
4.					Vegetation	•		
			= T⊡tal C⊡⊑er		Present?		Yes X No	
Pemaria: /Include III	Ot num Pere Pere	□r □n a se⊡arate s⊡eet.)						
,		,	mature oak fore	st with a dense hi	uckthorn understory. Dom	inant species	are all FAC	
which occur in both							-	

SOIL								Sam⊡ing P⊡nt:	T-4 DP-7 UPL
Profile Description:	(Describe to the depth need	led to docum	nent the indicato	r or confirm th	ne absence d	of indicate	ors.)		
De⊡t□	Matrix			Red⊡x Featu	ıres				
(inc⊑es)	C⊟⊡r (m⊡st)		C⊟⊡r (m⊡st)		<u>T</u> ⊞e ¹	L□c ²	Texture	Remar⊡s	
0-5	10YR 3/1	100%					si cl loam		
5-20	10YR 4/1	90%	10YR 5/8	10%	С	М	silty clay	gravel present	
					-				
				-					
					. —				
					-				
					. —				
¹ T⊞e: C=C⊡ncentra	ti⊡n, D=De⊟eti⊡n, RM=Reduce	ed Matrix, CS	=C⊡ered ⊡r C⊡a	ted Sand Grain	IS.	2	L⊡cati⊡n: PL=P⊡re L	ining, M=Matrix	
		, ,						2	
Hydric Soil Indicato	ors:		Cand⊟Cla∃ad Ma	striv (CA)				Problematic Hydric Soils ³ :	
Hist⊡s□ (A1) Histic E⊡⊡ed⊡n	(A2)		Sand□Gle⊑ed Ma Sand□Red⊡x (S5					Prairie Red⊡x (A16) (LRR,K,L,R) ur⊡ace (S7) (LRR,K,L)	
Blac Histic (A3	• •		Stri⊟⊑ed Matrix (S	,				uc⊞ ⊑eat ⊡r ⊑eat (S3) (LRR,K,L)	
H⊑dr⊑gen Sulūd	<i>'</i>		L⊡am□Muc⊞ Nir					anganese Masses (F12)(LRR,K,L	.,R)
Strati∄ed La⊡ers	1 /		L⊡am□ Gle ⊑ed Ma					⊒all□□ Dar□Surīace (TF12)	
2 cm Muc (A10	•		De⊟eted Matrix (I				Ot⊡er (l	Ex⊡ain in Remar⊡s)	
T⊑c□Dar□Sur⊠	Dar⊡Sur⊡ace (A11)		Red⊡x Dar□Sur⊡ De⊟eted Dar⊡Su						
Sand □ Muc □ M	, ,		Red⊡x De⊡ressi□						
	\			(- /					
							³ Indicat⊡rs □□□	⊡dr□□□⊒tic e⊡egetati⊡n and □etlar	ıd
							•	□e □resent, unless distur□ed □r	
							□r□□lematic.		
					1				
Restrictive Layer (if T ≡e: none	observed):								
De⊒t□ (inc□es):	n/a					Hvd	ric Soil Present?	Yes X No	
2042 (0200).	.,,					,		<u>x</u>	
Remar⊑s: Hydri	c soil criterion is met; howev	er, the hydro	ology in this area	a has changed	(become dr	ained) du	e to the excavation	of the adjacent pond.	
Pond	dates back to at least 1951 p	er Milwauke	e County GIS we	ebsite.					
HYDROLOGY									
Wetland Hydrology		_ "					Sec⊡nd	dar Indicat rs (minimum == t== re	<u>∍⊏uire</u> d)
	ninimum □□□ne is re□uired□c□e		-					Sur ace S il Crac s (B6)	
Sur ace Water (•		Water-Stained Le	. ,				Drainage Patterns (B10)	
Hig□Water Ta□ Saturati⊡n (A3)	le (A2)		A⊡uatic Fauna (B True A⊡uatic Plar	,				Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□ Burr⊡⊃s (C8)	
Water Mar⊡s (B	1)		H⊑dr⊑gen Sulûde					Saturati⊡n Visi⊡e ⊡n Aerial Im	nager⊟(C9)
Sediment De	·		Oxidi⊡ed R⊡⊡s□	, ,	a R⊟⊒ts (C3)		-	Stunted © Stressed Plants (D	• , ,
Dri∄ De □□sits (E			Presence □□Redu		(/		1	Ge□m□r□⊑ic P⊡siti⊡n (D2)	,
Algal Mat ⊡r Cru	ıst (B4)		Recent Ir⊡n Redu	ıcti⊡n in Tilled S	S⊟ls (C6)			FAC-Neutral Test (D5)	
Ir⊡n De □□sits (B	,		T⊡n Muc⊟Sur⊡c						
	le □n Aerial Imager□(B7)		Gauge □r Well Da						
S⊡arsel⊡Vegeta	ated C⊡nca⊡e Sur⊡ace (B8)		Ot⊡er (Ex⊡ain in	Remar⊡s)					
						1			
Field Observations:		N= *	5 == "			1			
Sur⊡ace Water Prese Water Ta⊡e Present		N□ X N□ X	De t (inc es): De t (inc es):						
Saturati⊡n Present□	Yes	N X	De ⊡t⊟ (inc∟es):		ı		Wetla	nd Hydrology Present? Yes	No X
(includes ca⊡llar□ Iii		· <u>-^</u>	2022 (110203).						<u>x</u>
Descri⊑e Rec⊑rded [Data (stream gauge, m⊡nit⊡ring	□ell, aerial □	⊒⊒t⊒s, ⊡re⊡⊒us ir	ns⊡ecti⊡ns), i⊡a	a⊑aila ⊒e:				
	gure 1), 1-foot contour map					n 2000, 2	005, 2010, and 2013	3 (Figures 4A-D),	
), NOAA's AHPS map (Figure					•		••	
Remar⊡s: Wetla	and hydrology criterion is not	met.							

Pr⊡ectiSite: Loom	nis Road Parcels			Cit⊡C□unt⊡ Milwaukee	Sam⊡ing Date: October 29, 2014			
A□□licantiO□ner:	Bear Developme	ent, LLC			State: W	I Sam⊡ing P⊡nt: T-4 DP-8 WTD		
In⊡estigat⊡r(s):		, PWS & Tina M. Mye			Secti⊡n, T□□ns⊡□, Range:	Section 30, T5N R21E		
Land ⊞rm (⊑illsl⊐⊒e, t	terrace, etc.):	wetland depression			L⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	concave		
SI□□e (□): 0%		Lat: See Figure 2		L⊡ng: Se e	e Figure 2	Datum: See Figure 2		
S⊡l Ma□ Unit Name:	·	Blount silt loan	n, 1-3% slopes (Bl	A), Hydric Inclsuic		sitication: W0Hx		
Are climatic □□□dr□□	⊒gic c⊡nditi⊡ns ⊡n t⊡	⊡e site t⊡ical ⊞r t⊡s ti			Yes <u>X</u> N□	(i⊡n⊡, ex⊡ain in Remar⊡s)		
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H □dr □ □g □		antl□distur□ed□	Are "N ☐rmal Circumstances'			
Are Vegetati⊡n	<u>N</u> S⊡i	N □r H⊡dr□□g□	*Y natural	I□ □r□□lematic□	(i⊡needed, ex⊡ain an□ans□	lers in Remar⊡s)		
SUMMARY OF	FINDINGS	Attach site map	showing samp	ling point loca	ations, transects, important fe	eatures, etc.		
H⊑dr⊒⊒⊒tic Vegetati					ls t⊡e Sam⊡ed Area	,		
HEdric SEI Present		Yes X Yes X			is t∟e sam⊔ed Area	Yes X N□		
Wetland H⊑dr⊒⊑g□F		Yes X	N		I⊡es, ⊡ti⊡nal ⊜etland site I			
					ileast, earlier estante site i	- 		
Remar⊡s:	*Seasonal hydro	ology						
VEGETATION -	· Use scienti∄c i	names				Sam⊡ing P⊡nt: T-4 DP-8 WTD		
		A⊡s⊡ute □	D⊡minant	Indicat⊡r	Deminance Test West	drahaati		
Tree Stratum (PI⊡t si	i⊑e: 30'R) C□⊡er	S⊡ecies	Status	Dominance Test Wor			
1 0000000000000000000000000000000000000		400/	v	EAC	Num er Deminant S			
1. Quercus macro	ocarpa	10%	Y	FAC	T⊡at Are OBL, FACW,	□ FAC: <u>3</u> (A)		
3.					T⊡tal Num⊡er ⊡⊡D⊡mi	nant		
4.					S⊑ecies Acr⊑ss All Str	ata: <u>3</u> (B)		
5					Percent □□D□minant S	? Facion		
7.					T⊑at Are OBL, FACW,			
		10%	= T⊡tal C□⊡er		, , ,			
		·			Prevalence Index Wo			
					T⊡tal □ C□ OBL s⊡ecies	x 1 = Multi		
Sa⊡ingเ\$⊡ru□Stratu	ım (Pl⊑t si⊑e:	15'R)			FACW s⊑ecies	x 2 =		
1. Rhamnus catha		20%	ΥΥ	FAC	FAC s⊡ecies	x 3 =		
2					FACU s⊡ecies	x 4 =		
3. 4.					UPL s⊡ecies C⊡umn T⊡tals:	x 5 = (A) (B)		
_					Cullill Tudis.	(A) (B)		
6.					Pre⊡alence Inde	x B/A = <u>n/a</u>		
7						- L. P		
		20%	= T⊡tal C⊡⊑er		Hydrophytic Vegetati	ion indicators: est ⊞r H⊡dr⊒⊒⊒tic Vegetati⊡n		
						nce Test is □50□		
					Pre ⊑alei	nce Index is ≤ 3.0 ¹		
Her⊟ Stratum (PI⊡t si			v	EA CW/		□gical Ada⊡tati⊡ns¹ (Pr□□ide su□□□rting		
1. Phalaris arunda 2.	iinacea	100%	Y	FACW		n Remar⊡s ⊡r ⊡n se⊡arate s⊡eet) natic H⊡dr⊒⊐⊒⊒tic Vegetati⊡n¹ (Ex⊒lain)		
3.						(,		
4.								
5. 6.			_			ା and □etland □drା⊒g□must stur⊑ed ାr ⊏r⊡⊟ematic.		
7.					Le desent, uniess di	stulled in indefination.		
8.								
10. 11.								
12.			_					
13.								
14		- 4000/						
		100%	_ = T⊡tal C⊡⊡er					
W□⊡d□Vine Stratum	ı (Pl⊡t si⊡e: 30'R)						
1. <i>n/a</i>		· —						
2.		<u> </u>						
3.	-				Hydrophytic			
4		<u> </u>	= T⊡tal C⊡er		Vegetation Present?	Yes Y No		
			I LLAI CLLEF		Flesellt!	Yes X No		
,		□r □n a se⊑arate s⊡eel	,					
Hydrophytic vegeta	ation criterion is m	ieτ. Plant community	is a degraded fres	sn (wet) meadow fi	ringe along an excavated pond.			

SOIL T-4 DP-8 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features (inc ⊑es) C□□r (m ist) C□□r (m ist) L □c² **Texture** Remar s 10YR 3/1 0-2 100% si cl loam 2-10 10YR 3/1 90% 10 YR 5/6 10% М silty clay 10-20 10YR 4/1 70% 10YR 5/8 30% М silty clay gravel present ²L□cati□n: PL=<u>P□re Lining, M=Matrix</u> T⊡e: C=C □ncentrati □n, D=De □eti □n, RM=Reduced Matrix, CS=C □ered □r C □ated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red □x (A16) (LRR,K,L,R) Sand ☐ Gle ☐ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed □n (A2) Sand □ Red □x (S5) Dar□Sur@ce (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H dr gen Sulide (A4) L □ am □ Muc □ Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am □ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red x Dar Sur ace (F6) T⊓ic□Dar□Surace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat⊡rs □□□□dr□□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Laver (if observed): T⊡e: none De t (inc es): <u>n/a</u> **Hydric Soil Present?** Yes X No Remar⊡s: Hydric soil criterion is met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar Indicat_rs (minimum __t _ re_uired) Sur ace S il Crac (B6) Primar□Indicat⊡rs (minimum □□□ne is re□uired□c□ec□all t□at a□□□) Drainage Patterns (B10) Sur ace Water (A1) Water-Stained Lea Es (B9) Hig□ Water Ta ☐e (A2) A⊡uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta ☐e (C2) Saturati⊡n (A3) True A uatic Plants (B14) Cra is Burr s (C8) Water Mar (B1) H⊡dr gen Sulide Od (C1) Saturati n Visi e n Aerial Imager (C9) Sediment De □ sits (B2) Oxidi ed R = seres en Li ing R = ts (C3) Stunted T Stressed Plants (D1) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge m □r □ □ ic P □ siti □ n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S is (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) Tin Muc□Surace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) S arsel Vegetated C nca E Sur ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ De t (inc es): Water Ta ⊟e Present □ Yes ΝΓ De t (inc es): 17' Saturati⊡n Presenti De □t□ (inc □es): Wetland Hydrology Present? Yes X includes ca⊑illar□ īringe Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊑s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊑a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide: Remar s: Wetland hydrology criterion is met. Hydroperiod Is long - high water table maintained throughout the growing season.

Pr⊒ectiSite: Loom	nis Road Parcels					Cit⊡C□unt□ Milwaukee		Sam⊒ing Date	October 29, 20)14
A□□icantɪO□ner:	Bear Developm	ent, LLC				State:	WI		Sam⊡ing P⊡nt: T	í-5 DP-9 UPL
In⊑estigat⊡r(s):	Heather D. Patt	i, PWS				Secti⊡n, T⊡ns⊡,	, Range:	Section 30, T	5N R21E	
Land ⊡rm (⊡llsl⊐e, t	terrace, etc.):	backslope	9		L	_⊑cal relie⊑(c⊑nca⊑e, c⊑n⊑ex	x, n⊡ne):	slightly conve	ex	
SI□□e (□): 10%		Lat: S	See Figure 2		L⊡ng: See I	Figure 2	<u> </u>	Datum	See Figure 2	
S⊡l Ma Unit Name:		N	Norley silt loam	2-6% slopes (M	zdB), Non-hydric		WWI Class	i∄cati⊡n:	non	ıe
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t	⊑e site t□	ical ⊞r t⊡s time	□□□ear□		Yes X N□		(i⊡n□, ex⊟ain i	in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊡I	N E	rH⊡dr⊒⊡g□	N signitica	ntl□distur⊑ed□	Are "N⊡rmal Circ	umstances"	□resent□	Yes_	N□ X
Are Vegetati⊡n	<u>N</u> S⊡I	<u>N</u> [rH⊡dr⊡⊡g□	N naturall	□r□□lematic□	(i⊡needed, ex⊟ai	n an□ans□e	rs in Remar⊡s)		
CUMMARYOF	FINDINGS	A 44 l-	-:							
SUMMARY OF	FINDINGS	Attach	site map sn			tions, transects, imp	ortant tea	atures, etc.		
H⊡dr⊡⊡⊒tic Vegetati	i⊡n Present□		Yes		Х	ls t⊡e Sam⊡ed A	rea			
H⊡dric S⊡l Present□			Yes		Х	□it⊡in a Wetland⊡]	Yes	i	N□ <u>X</u>
Wetland H⊡dr⊒⊡g□P	Present□		Yes	N□	Х	l⊡es, ⊡ti⊡nal ⊡e	etland site Iℂ): 	N/A	
Remar⊑s:	*Active corn fie	ld - corn i	is healthy, no c	rop stress		<u>.</u>				
	None of the wet		-	-						
VEGETATION -	Use scienti∄c	names	⊞r ⊟ants.					San	m⊟ing P⊡nt:	T-5 DP-9 UPL
			A⊡s⊡ute □	D⊡minant	Indicat⊡r	Dominance	e Test Work	sheet:		
Tree Stratum (PI⊡t si	⊑e: 30'R	<u> </u>	C□⊑er	S⊡ecies	Status		D⊡minant S⊡			
1. <i>n/a</i>							BL, FACW, [0 ((A)
2.		_				1 = 1,71,00	52,	21710.		,
3.		_				T⊡tal Num⊡	⊒er ⊒⊒D⊒mina	ant		
4		_				S⊡ecies Ac	r⊡ss All Strat	ta:	((B)
5		_				Dercent ==	D-minant Cr	¬a sia a		
7		-					D⊑minant S□ BL, FACW, □		0 % ((AIB)
·· 		_		T⊡tal C□⊑er		1 = 1,71,00	22,	21710.		,)
		_					e Index Worl			
							T⊡tal □ C⊡		Multi□□	
Sa⊟ingเ\$⊡ru⊟Stratu	ım /DI⊏t si⊏s:	15'R)				OBL s⊡ecie FACW s⊡ec			x 1 = x 2 =	
	iii (FILL SILE.	131()				FAC s⊡ecie			x 3 =	
2.		_				FACU s⊡ec			x 4 =	<u> </u>
3.		_				UPL s⊡ecie			x 5 =	<u> </u>
		_				C⊡umn T⊡	tals:		(A)	(B)
		_				Pre⊡s	alence Index	R □ Δ =	n/a	
7.		-				1102	licitoc iridex	DE -	11/4	
		_		T⊡tal C□⊑er		Hydrophyt	ic Vegetatio	on Indicators:		
								st ⊞r H⊡dr⊡□□□1	•	
								ce Test is □50□ ce Index is ≤ 3.0		
Her□ Stratum (PI⊡t si	i⊑e: 5'R	,							ns¹ (Pr⊞ide su⊞	□□rtina
1. Zea mays			100%	Υ	UPL			-	se⊑arate s⊑eet)	g
2.		_					Pr⊡⊒ema	ıtic H⊡dr□□□⊑tic	Vegetati⊡n¹ (Ex⊡	⊒ain)
3		_								
4. 5.		-				¹ Indicat⊟re	. DDDDdrie e D	il and □etland □	ïdr∏⊑a∏muet	
6.		_						tur⊡ed ⊡r ⊡r⊟⊟e		
7.		_					•			
8.		_								
40		_								
		_	_							
12.		_								
13.										
14		_								
		_	100% =	= T⊡tal C□⊡er						
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R)								
4		_								
1. <u>n/a</u>		_								
3.		_				Hydrophyt	ic			
4.		_				Vegetation				
		_		= T⊡tal C⊡⊑er		Present?		Yes	No_	X
Remar⊡s: (Include □	□t□ num⊓ers ⊓ere	_r [n a se	e⊒arate s⊓eet \			<u> </u>				
Hydrophytic vegeta			,	bserved.						

SOIL								Sam⊡ing P⊡n	: T-5 DP-9 UPL
Profile Description:	(Describe to the depth nee	ded to docun	nent the indicato	or or confirm t	he absence o	of indicate	ors.)		
De⊡t⊟	Matrix			Red⊡x Feat	ures				
(inc⊡es)	C□□r (m⊡st)		C⊟⊡r (m⊡st)		T⊡e ¹	L⊡c ²	Texture	Remar⊡	3
0-10	10YR 3/1	100%		_			si cl loam		
10-13	10YR 3/1	90%	10YR 5/6	10%	С	М	si cl loam		
13-20	10YR 5/3	85%	10YR 5/6	15%	С	М	silty clay		
					-				
	-			-	-			-	
				. ———					
1						2			
<u>' T⊞e: C=C⊡ncentrat</u>	ti⊡n, D=De⊟eti⊡n, RM=Reduc	ed Matrix, CS	=C⊡ered ⊡r C⊡a	ited Sand Graii	ns.	-	L⊑cati⊑n: PL=P⊑re Li	ning, M=Matrix	
Hydric Soil Indicato	rs:						Indicators for P	roblematic Hydric Soils ³ :	
Hist⊡s⊟ (A1)			Sand□Gle ⊑ed Ma	atrix (S4)			C⊡ast P	rairie Red⊡x (A16) (LRR,K,L	.,R)
Histic E ⊡ ⊒ed ⊒n	(A2)		Sand□Red⊡x (S5	5)			Dar⊡Su	rlace (S7) (LRR,K,L)	
Blac□Histic (A3)			Stri□⊑ed Matrix (S					ıc⊡ ⊡eat ⊡r ⊡eat (S3) (LRR ,l	
H⊑dr⊑gen Sultide	. ,		L⊡am□ Muc Ⅲ Mi	. ,				nganese Masses (F12) (LRR	.,K,L,R)
Stratified La ers	'		L □am □ Gle □ed M					all□□ Dar□Surace (TF12)	
2 cm Muc (A10) Dar□Sur⊡ace (A11)		De leted Matrix (Red x Dar Suri	,			OtLer (E	x⊒ain in Remar⊡s)	
Tic Dar Sur			De⊟eted Dar⊟Su						
Sand □ Muc □ Mi	• •		Red⊡x De⊑ressi□						
	,			,					
							³ Indicat⊡rs □□□□	dr□□□Itic e⊡egetati⊡n and □	etland
							□□dr□l□g□ must □	⊒e ⊑resent, unless distur⊑ed	□r
							□r□□lematic.		
Restrictive Layer (if	observed):								
T⊡e: none									
De t (inc es):	n/a					Hyd	ric Soil Present?	Yes	No X
Remar⊑s: Hydri d	c soil criterion is not met.								
itemai is. Tryunt	c son criterion is not met.								
HYDROLOGY									
Wetlend Hudrelenu	Indiantara						Co a □nde	ar Indicator (minimum out	
Wetland Hydrology	indicators: ninimum □□ne is re□uired□c□	ec⊟all t⊏at a⊟					Secunda	ar□Indicat⊡rs (minimum □□t⊡ Sur⊡ace S⊡l Crac⊡s (B6)	<u>□ re ∟uire</u> a)
				= (B0)		_		_	
Sur ace Water (A	•		Water-Stained Le A⊡uatic Fauna (B	, ,				Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊟e	(C2)
Hig□Water Ta⊡ Saturati⊡n (A3)	e (A2)		A∟uatic Fauria (b True A⊑uatic Plai	,				Cra □is □ Burr □ s (C8)	,C2)
Water Mar⊡s (B1	1)		H⊑dr⊑gen Sultide					Saturati⊡n Visi⊟e ⊡n Aeri	al Imager⊟(C9)
Sediment De □□s	•		Oxidi ⊑ed R ⊡ ⊞s	. ,	a R⊡ts (C3)			Stunted □r Stressed Plant	0 ()
Dri∄ De ⊡sits (B	` '		Presence □□Red		3			Ge⊡m⊡r⊡ic P⊡siti⊡n (D2	. ,
Algal Mat ⊡r Cru			Recent Ir⊡n Redu		S⊡ls (C6)			FAC-Neutral Test (D5)	
Ir⊡n De⊒⊑sits (B	5)		T⊡n Muc□Sur⊡o	ce (C7)			<u> </u>		
Inundati⊡n Visi⊟	le ⊡n Aerial Imager□(B7)		Gauge ⊡r Well Da	ata (D9)					
S⊡arsel⊡Vegeta	ited C⊡nca⊡e Sur⊡ace (B8)		Ot⊡er (Ex⊡ain in	Remar⊡s)					
						1			
Field Observations:									
Sur⊡ace Water Presei	nt□ Yes	N□ <u>X</u>	De ⊡t □ (inc □es)	:	_				
Water Ta⊟e Present⊡	Yes	N□ <u>X</u>	De t (inc es)		_				
Saturati⊡n Present□ (includes ca⊡illar□ ाin	Yes	N□ <u>X</u>	De ⊡t □ (inc □es)	:	=		Wetlan	d Hydrology Present?	res No X
					" -:				
•	oata (stream gauge, m⊡nit⊡rin	-					005 0045	(F1)	
	gure 1), 1-foot contour map , NOAA's AHPS map (Figur					n 2000, 2	005, 2010, and 2013	(Figures 4A-D),	
Tree inap (Figure 5)	, HOAA SANES INAP (FIGUR	ooj, Local W	LIS LADIE, AIIO	i on orop ollo	161				
Remar⊑s: Wetla i	nd hydrology criterion is no	t met No ind	lication of consid	stent wetness	on FSA cron	slides o	r aerials		
					5 OA 010p				

Pr⊡ectiSite: Loom	nis Road Parcels					Cit⊡C□unt□: Milwaukee	Sam⊡ing Date: October 29, 2014
A□□icantɪO□ner:	Bear Developm	ent, LLC				State: W	Sam⊡ing P⊡nt: <u>T-5 DP-10 WTD</u>
In⊡estigat⊡r(s):	Heather D. Patti	i, PWS				Secti⊡n, T□□ns⊡, Range:	Section 30, T5N R21E
Land⊞rm (⊑illsI⊟e, t	terrace, etc.):	wetland	d depression			L ⊡cal relie ⊡(c ⊡nca ⊡e, c ⊡n ⊡ex, n ⊡ne):	concave
SI□□e (□): 0 %		Lat:	See Figure 2		L⊡ng: See	Figure 2	Datum: See Figure 2
S⊡l Ma□ Unit Name:		- i	Morley silt loam	2-6% slopes (l	MzdB), Non-hydric	WWI Class	siticati⊡n: E1K
Are climatic □□□dr□□	ajic c⊡nditi⊡ns ⊡n t	□e site t□	 ⊑ical ⊞r t⊑is time	□□□ear□		Yes X N□	(i□n□, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	*Y S⊡I		⊡r H⊡dr⊡⊡g□		antl□distur⊡ed□	Are "N□rmal Circumstances"	,
Are Vegetati⊡n	N S⊡I		⊡r H⊡dr⊡⊡g□		I□ □r□□lematic□	(i⊡needed, ex⊟ain an□ans□	
-						•	•
SUMMARY OF	FINDINGS	Attach	site map sho	owing samp	ling point locat	tions, transects, important fe	atures, etc.
H⊡dr⊟⊒⊟⊒tic Vegetati	i⊓n Present⊓		Yes X	N□		ls t⊡e Sam⊡ed Area	
H⊡dric S⊡l Present□			Yes X	_		□it⊡in a Wetland□	Yes X N□
Wetland H⊡dr⊡ □g □ F			Yes X	_ N□		I□⊑es, □⊏ti⊡nal □etland site I	
				_		1835, Balana Bollana Olio I	<u> </u>
Remar⊡s:	-		- no crops in this	s area due to s	pring wetness.		
	**Seasonal hyd	rology					
VEGETATION -	Lleo eciontific	namac	⊞r □ante				Compling Drints TEDD 40 WTD
VEGETATION -	Ose scientific	names					Sam⊟ing P⊡nt: <u>T-5 DP-10 WTD</u>
Troo Stratum (BI⊐t ai	i⊏o 20'D	`	A⊡s⊟ute □	D⊡minant S⊡ecies	Indicat⊡r	Dominance Test Wor	ksheet:
Tree Stratum (PI⊡t si	ILE. JUK	┵ .	C□⊑er	SLecies	Status	Num⊡er □□D⊡minant S	: Tecies
1. n/a						T⊑at Are OBL, FACW,	
						T⊡tal Num⊡er □□D□mir	nant
						S⊡ecies Acr⊡ss All Stra	ata: <u>3</u> (B)
5.							
6						Percent □□D□minant S	
/				T⊡tal C□⊡er		T⊑at Are OBL, FACW,	□r FAC: <u>67%</u> (A⊞)
				- I Lai C Lei		Prevalence Index Wo	rksheet:
						T □tal □ C□	
						OBL s⊡ecies	x 1 =
Sa⊟ingเ\$⊡ru⊟Stratu	ım (PI⊡t si⊡e:	15'R)				FACW s⊡ecies	x 2 =
1. Salix interior			10%	ΥΥ	FACW	FAC s⊡ecies	x 3 =
2.						FACU s⊡ecies	x 4 =
3						UPL s⊡ecies	x5=
4						C⊡umn T⊡tals:	(A) (B)
6						Pre⊡alence Inde	k B⊠ = n/a
7.						Tremaine mac	. DEX - IVA
			10% =	T⊡tal C□⊑er		Hydrophytic Vegetati	on Indicators:
		•				Ra⊡id Te	est ⊞r H⊡dr⊒⊒⊒tic Vegetati⊡n
							nce Test is □50□
l							nce Index is ≤ 3.0 ¹
Her□ Stratum (PI□t si)	400/	v	E4 014/		□gical Ada⊡tati⊡ns¹ (Pr⊡ide su□□□rting
Cyperus escule Portulaca gran			10% 10%	<u>Y</u>	FACU		ı Remar⊡s ⊡r ⊡n se⊡arate s⊡eet) atic H⊡dr⊒⊐⊐tic Vegetati⊡n¹ (Ex⊡ain)
3.	lulilora		1078		TACO		auc i i di
4.							
5.						¹ Indicat⊡rs □□□□dric si	⊑il and □etland □⊡dr□□g□must
6.		_				□e □resent, unless dis	stur⊡ed ⊡r ⊡r⊟⊟ematic.
7.		_ :					
8							
9							
14.							
			20% =	T⊡tal C⊟⊑er			
		-					
W□□d□ Vine Stratum	ı(Pl⊡tsi⊡e: 30'R)					
1. <i>n/a</i>							
2.							
3.						Hydrophytic	
4.						Vegetation	
				= T⊡tal C□⊡er		Present?	Yes X No
							
Remar⊡s: (Include □							
Atypical situatuion	- Farmed wetland	, but no	crop growing pro	esumably due	to spring wetness -	mostly bare ground.	

SOIL T-5 DP-10 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features (inc □es) C□□r (m ist) C□□r (m□st) L □c² **Texture** Remar⊡s 10YR 3/1 0-6 100% si cl loam 6-12 10YR 3/1 90% 10YR 5/6 10% М si cl loam 12-20 10YR 5/2 80% 10YR 5/6 М 20% silty clay ²L□cati□n: PL=<u>P□re Lining, M=Matrix</u> T⊡e: C=C □ncentrati □n, D=De □eti □n, RM=Reduced Matrix, CS=C □ered □r C □ated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red □x (A16) (LRR,K,L,R) Sand ☐ Gle ☐ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed □n (A2) Sand □ Red □x (S5) Dar□Sur@ce (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H dr gen Sulide (A4) L□am□Muc□□Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am □ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red x Dar Sur ace (F6) T⊓ic□Dar□Surace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat⊡rs □□□□dr□□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none De t (inc es): <u>n/a</u> **Hydric Soil Present?** Yes X No Remar s: Hydric soil criterion is met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar Indicat_rs (minimum __t _ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re□uired□c□ec□all t□at a□□□) Sur ace S I Crac (B6) Drainage Patterns (B10) Sur ace Water (A1) Water-Stained Lea Es (B9) Hig□ Water Ta ☐e (A2) A □uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta ☐e (C2) Saturati⊡n (A3) True A uatic Plants (B14) Cra is Burr s (C8) Saturati⊡n Visi⊡e ⊡n Aerial Imager (C9) Water Mar (B1) H⊑dr gen Sultide Od (C1) Sediment De□sits (B2) Oxidi ed R = seres en Li ing R = ts (C3) Stunted T Stressed Plants (D1) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge m r □ ic P siti n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) Tin Muc□Surace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) X S arsel Vegetated C nca e Sur ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta le Present l Yes NΠ Χ De □t□ (inc □es):

Descrice Recorded Data (stream gauge, monitoring cell, aerial coots, credicus inscections), icacailade:

USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide:

De t (inc es):

Remar :: Wetland hydrology criterion is met. Farmed wetland portion of W-2. Visible on most FSA slides and spring aerials.

Saturati⊡n Present□

includes ca⊑illar□ īringe

Wetland Hydrology Present? Yes X

Pr⊡ectiSite: Loom	is Road Parcels			Cit⊡C□unt⊡ Milwaukee	Sam ling Date: October 29, 2014
A□□licantiO□ner:	Bear Developme	nt, LLC		State: W	I Sam⊡ing P⊡nt: <u>T-6 DP-11 UPL</u>
In⊑estigat⊑r(s):	Heather D. Patti,	PWS		Secti⊡n, T⊡□ns⊡□, Range:	Section 30, T5N R21E
Land⊡rm (⊡illsl⊡e, t	errace, etc.): b	ackslope		L⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	slightly convex
SI□□e (□): 10%		Lat: See Figure 2	L⊡ng: Se	e Figure 2	Datum: See Figure 2
S⊡l Ma Unit Name:		Elliott silt loam 1-3%	% slopes (AsA), Hydric Inclusio	ons WWI Class	siticati⊡n: none
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡s time □	□ear□	Yes X N□	(i⊡n□, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>N</u> S⊡I	N _□r H □dr □ □g □	N _signi⊡cantl□distur⊡ed□	Are "N⊡rmal Circumstances"	□resent□ Yes X N□
Are Vegetati⊡n	N S⊡I	N □r H □dr □ □g □	N naturall□ □r□□lematic□	(i⊡needed, ex⊡ain an□ans⊡	ers in Remar⊡s)
SUMMARY OF	FINDINGS /	Attach eite man ehov	wing sampling point loc	ations, transects, important fe	atures etc
					atures, etc.
H⊡dr⊡⊡tic Vegetati	□n Present□	Yes		ls t⊡e Sam⊡ed Area	
H⊡dric S⊡il Present□		Yes	N	□it⊡in a Wetland□	Yes N□ X
Wetland H⊡dr⊒⊡g□P	resent□	Yes	N□ <u>X</u>	I □ ⊡es, □ □ti □ nal □ etland site II	D: N/A
Remar⊡s:	Does not meet a	II any of the three wetland	l criteria.		
VEGETATION -	Use scienti∄c r				Sam⊡ing P⊡nt: T-6 DP-11 UPL
Tree Stratum (PI⊡t si	a: 30'P \	A⊡s⊡ute □ C⊡⊑er	D⊡minant Indicat⊡r	Dominance Test Worl	rsheet:
Tree Stratum (PILL SI	_e. 30 K)	<u>Culer</u>	S⊡ecies Status	Num⊡er □□D⊡minant S	□ecies
1. Fraxinus penns	sylvanica	30%	Y FACW	T⊡at Are OBL, FACW,	□r FAC:(A)
2.					
3				T⊡tal Num⊡er □□D□mir	
4				S⊑ecies Acr⊑ss All Stra	(B)
6.				Percent □□D□minant S	□ecies
7.				T⊡at Are OBL, FACW,	
		30% = T	⊡tal C⊡er		
				Prevalence Index Wor	
				T⊡tal □ C⊡ OBL s⊡ecies	0 x 1 = 0
Sa⊟ingเ\$⊡ru⊟Stratuı	m (PI⊡t si⊡e:	15'R)		FACW s⊡ecies	30 x 2 = 30
1. Rhamnus catha		80%	Y FAC	FAC s⊡ecies	90 x 3 = 270
2. Lonicera tatario		40%	Y FACU	FACU s⊡ecies	70 x 4 = 280
3				UPL s⊡ecies C⊡umn T⊡tals:	0 x 5 = 0 190 (A) 580 (B)
l				Chullil I Lais.	190 (A) (B)
6.				Pre ⊑alence Index	(B A = 3.1
7.					
		120 % = T	tal C□er	Hydrophytic Vegetatio	
					est ⊞r H⊡dr⊒⊒⊒tic Vegetati⊡n nce Test is ⊡50□
					ice Index is ≤ 3.0 ¹
Her□ Stratum (PI⊡t si	⊡e: 5'R)			_gical Ada _tati_ns¹ (Pr⊡ide su □□□rting
1. Poa pratensis		20%	Y FACU		Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. Symphyotrichu		10%	Y FAC Y FACU	Pr⊡ema	atic H⊡dr⊡⊡⊡tic Vegetati⊡n¹ (Ex⊡ain)
3. Rosa carolinian	na	10%	Y FACU		
5.				¹ Indicat⊡rs □□□□dric s	il and □etland □⊡dr□□g□must
6.					stur⊑ed ⊡r ⊡r⊡⊒ematic.
7					
8. 9.					
10					
11.					
12.					
13.					
14		40% = T	_tal C□⊑er		
W□□d□Vine Stratum	(Pl⊡t si⊡e: 30'R				
1. Vitis riparia		3%	N FACW		
2.					
3.				Hydrophytic	
4		20/	Total Coper	Vegetation Present?	Voc. No. V
		3% =	T⊡tal C⊡⊑er	Fresent?	Yes No _X
		īr ⊡n a se⊡arate s⊡eet.)			
Hydrophytic vegeta	tion criterion is no	t met. Plant community i	s an upland shrub thicket inclu	uding many non-native aggressive spec	cies.

SOIL								Sam⊡ling F	P⊑int: T-6 DP- 1
Profile Description: (Descr	ibe to the depth nee	ded to docum	nent the indicato	r or confirm	the absence of	of indicate	ors.)		
De⊡t□	Matrix			Red⊡x Fea	atures				
(inc⊡es)	C□□r (m⊡st)		C□□r (m⊡st)		<u>T⊞e</u> ¹	L⊡c ²	Texture	Rem	nar⊡s
0-10	10YR 3/1						si cl loam		
10-13	10YR 3/1	95%	7.5YR 4/6	5%	<u></u>	М	si cl loam		
13-20	10YR 5/2	90%	10YR 5/6	10%	C	M	silty clay		
					_				
					_				
					_				
					_				
			_						
					_				
						2			
T⊡e: C=C⊡ncentrati⊡n, D=	De⊟eti⊡n, RM=Reduc	ed Matrix, CS	=C⊡ered ⊡r C⊡a	ted Sand Gra	nins.		L⊡cati⊡n: PL=P⊡re L	ining, M=Matrix	
Hydric Soil Indicators:							Indicators for I	Problematic Hydric Soil	s³:
Hist⊡s□ (A1)		;	Sand□Gle⊡ed Ma	ıtrix (S4)			C⊡ast F	Prairie Red⊡x (A16) (LRR	,K,L,R)
Histic E i □ed □n (A2)			Sand□Red⊡x (S5					urtace (S7) (LRR,K,L)	
Blac□Histic (A3) H⊡dr⊡qen Sulūde (A4)			Stri⊐⊑ed Matrix (S L⊒am⊟Muc⊞ Mir	,				iuc⊡ ⊑eat ⊡r ⊡eat (S3) (L l anganese Masses (F12) (l	
Stratified La ers (A5)			L⊑am□ Gle⊑ed Ma	` '				all⊒□ Dar□Surāce (TF1	
2 cm Muc□(A10)			De⊒eted Matrix (l	. ,				Ex⊒ain in Remar⊡s) `	,
De ⊟eted Bel □□ Dar □ Su	` '		Red⊡x Dar□Sur⊡						
T ic Dar Sur ace (A12	,		De⊟eted Dar⊟Su						
Sand□Muc⊡Mineral (S	01)		Red⊡x De⊡ressi⊡	ns (F8)					
							³ Indicat⊡rs □□□	⊑dr⊒⊒⊒tic e⊑egetati⊑n ar	nd ⊟etland
								□e □resent, unless distur	
							□r⊟⊒ematic.		
Restrictive Layer (if observ	ed):								
T⊡e: <u>none</u>									
De⊡t□ (inc⊡es): <u>n/a</u>						Hyd	ric Soil Present?	Yes	No X
Remar⊑s: Hydric soil c i	riterion is not met.								
•									
HYDROLOGY									
Wetland Hydrology Indicate	ors:						Sec⊡no	dar⊡Indicat⊡rs (minimum	□□t□□ re □uired)
Primar□Indicat⊡rs (minimum		ec□all t⊡at a□	==)					Sur⊡ace S⊡il Crac⊡s (I	
Sur ace Water (A1)		1	Water-Stained Le	a⊑es (B9)				Drainage Patterns (B	10)
Hig□Water Ta⊡e (A2)			A⊡uatic Fauna (B	13)				Dr⊡-Seas⊡n Water Ta	
Saturati⊡n (A3)			True A⊡uatic Plar	nts (B14)				Cra □is □ Burr □□s (C8	•
Water Mar⊡s (B1)			H⊑dr⊑gen Sultide		D (00)			Saturati⊡n Visi⊡e ⊡n .	
Sediment De □sits (B2)			Oxidi⊡ed R⊡⊡s□ Brosopos □□Bodu					Stunted or Stressed F	
Dri∄ De⊡sits (B3) Algal Mat ⊡r Crust (B4)			Presence □□Redu Recent Ir□n Redu					Ge⊡m⊡r⊡ic P⊡siti⊡n FAC-Neutral Test (D5	
Ir □n De □□sits (B5)			Recent ir⊒r Redu T⊑n Muc⊟Sur⊡ac		. olio (00)		-	i AO-Neutiai Test (Do	7
Inundati⊡n Visi⊡e ⊡n Ae	erial Imager□(B7)		Gauge □r Well Da	, ,					
S⊡arsel⊡Vegetated C⊡r	nca⊡e Sur⊡ace (B8)		Ot⊡er (Ex⊡ain in	Remar⊡s)					
Field Observations:									
Sur⊡ace Water Present□	Yes	N□ <u>X</u>	De <u>l</u> t (inc <u>es</u>):		_				
Water Ta □e Present □	Yes	N□ X	De □t □ (inc □es):		_				
Saturati⊡n Present□ (includes ca⊡llar□ īringe)	Yes	N□ <u>X</u>	De t (inc es):		_		Wetla	nd Hydrology Present?	Yes
					0-0-11-0				
Descri⊡e Rec⊡rded Data (str		-				- 2000	OOE 2040 2024) (Figures 44 D)	
USGS topo map (Figure 1) WWI map (Figure 5), NOA <i>l</i>						n 2000, 2	ບບວ, 2010, and 2013	s (rigures 4A-D),	
		,, 	, und I	C. SP OII					
Remar⊡s: Wetland hyd i	rology criterion is no	t met.							
	J	•							

Pr⊡ectiSite: Loom	is Road Parcels			Cit⊡C□unt⊡ <u>N</u>	Milwaukee	Sam⊡ing Date: October 29, 2014	
A□□licantɪO□ner:	Bear Developme	nt, LLC		Sta	ate: WI	Sam⊡ing P⊡nt: T-6 DP-12 W	VTD
In⊡estigat⊡r(s):	Heather D. Patti,	PWS		Secti⊡n,	, T⊡⊓ns⊡∟, Range:	Section 30, T5N R21E	
Land⊡rm (⊡llsl⊡e, t	errace, etc.):	wetland depression		L⊡cal relie⊡(c⊡nca	a⊑e, c⊡n⊑ex, n⊡ne):	concave	
SI□□e (□): 0%		Lat: See Figure 2	LD	ng: See Figure 2		Datum: See Figure 2	
S⊡l Ma□ Unit Name:		Elliott silt loam 1-3	% slopes (EsA), Hydric Ir	nclusions	WWI Classi	îcati⊡n: none	
Are climatic □□□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡s time □	□□ear□	Yes <u>X</u>	N 🗆	(i⊡n□, ex⊡ain in Remar⊡s)	
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H □dr □ □g □	N signi iicantl □ distur	led□ Are "N	I⊡rmal Circumstances" □	resent□ Yes <u>X</u> Ni	
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H □dr □ □g □	<u>*Y</u> naturall□	tic□ (i⊡need	ded, ex⊡ain an□ans□er	rs in Remar⊡s)	
SUMMARY OF	FINDINGS 4	Attach site man sho	wing sampling poir	nt locations transec	cts important fea	tures etc	
				ı		10103, 010.	
H⊡dr□□□□tic Vegetati		Yes X			Sam⊟ed Area		
H⊡dric S⊡I Present□		Yes X			a Wetland□	Yes X N□	
Wetland H⊡dr⊒⊡g□P	resent⊔	Yes X	N		□⊏ti□nal □etland site ID:	W-3	
Remar⊡s:	*Seasonal hydro	logy					
VEGETATION -	Use scienti∄c r	names ⊞r □ants.				Sam⊡ing P⊡nt: T-6 DP-12	2 WTD
		A⊡s⊡ute □	D⊡minant Indicat	т <u>г</u>	Dominance Test Works	sheet:	
Tree Stratum (PI⊡t si	⊡e: 30'R	<u>C□⊡er</u>	S⊡ecies Status	<u> </u>			
1. Fraxinus penns	svlvanica	20%	Y FACW		Num⊡er □□D□minant S□ T⊑at Are OBL, FACW, □		
2.	.y.vaou	2070	i indii		1 Edi / 110 ODE, 1 / 1011, E		
3.				_ 1	T⊑tal Num⊡er □□D⊡mina	nt	
4					S⊡ecies Acr⊡ss All Strata	5 (B)	
5. 6.				_ _	Percent □□D□minant S⊡	oolog	
7.					T⊑at Are OBL, FACW, □		
		20% =	T⊡tal C⊡er	_		(,	
				F	Prevalence Index Work		
				-	T⊡tal □ C□□e		
Sa⊟ingเ\$⊡ru⊟Stratu	m (Pl⊡t si⊡e·	15'R)			OBL s⊡ecies FACW s⊡ecies	x 1 = x 2 =	
1. Fraxinus penns	-	50%	Y FACW		FAC s ecies	x 3 =	
2. Rhamnus catha	artica	30%	Y FAC	F	FACU s⊡ecies	x 4 =	
3					UPL s⊡ecies	x 5 =	
				_ '	C⊟umn T⊡tals:	(A)(B)	
				_	Pre⊡alence Index	B	
7.							
		80% =	T⊡tal C⊡er		Hydrophytic Vegetation		
				_		t	
				-		e Index is ≤ 3.0 ¹	
Her□ Stratum (PI⊡t si	⊡e: 5'R)				gical Ada⊡tati⊡ns¹ (Pr⊡ide su⊡⊡rting	
1. Carex stricta		10%	Y OBL	_		Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)	
2. Carex granular		10%	Y FACW	_ -	Pr⊡lemat	ic H⊡dr⊡⊡⊒tic Vegetati⊡n ¹ (Ex⊡ain)	
Phalaris arunda Cornus alba	inacea	<u>5%</u> 5%	N FACW	_			
5.			N IAOW	 1	¹ Indicat⊡rs □□□□dric s⊡i	and □etland □⊡dr□□g□must	
6.					□e □resent, unless distu		
7.				_			
8. 9.				<u> </u>			
1				_			
4.0							
13				_			
14		30% =	T⊡tal C⊡er	_			
		0070	T Edit O E Edit				
W□□d□Vino Stratum	/DIFt oile: 201D	,					
W□□d□Vine Stratum	TILL SILE. JUK	<u></u>					
1. <i>n/a</i>							
2.							
3					Hydrophytic		
4			= T⊡tal C⊡er		Vegetation Present?	Yes X No	
				'		<u></u>	
,		⊡r ⊡n a se⊡arate s⊡eet.) et. Plant community is a	shrub carr.				

SOIL T-6 DP-12 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features (inc □es) C□□r (m ist) C□□r (m□st) L □c² **Texture** Remar⊡s 10YR 3/1 0-4 100% si cl loam 4-10 10YR 3/1 90% 10 YR 5/6 10% М si cl loam 10-20 10YR 5/1 85% 10 YR 5/6 15% М silty clay ²L□cati□n: PL=<u>P□re Lining, M=Matrix</u> T⊡e: C=C⊡centrati⊡n. D=De⊡eti⊡n. RM=Reduced Matrix. CS=C⊡ered □ C□ated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red □x (A16) (LRR,K,L,R) Sand ☐ Gle ☐ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed □n (A2) Sand □ Red □x (S5) Dar□Sur@ce (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H dr gen Sulide (A4) L□am□Muc□□Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am □ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) X De leted Bel Dar Sur ace (A11) Red x Dar Sur ace (F6) T ic Dar Sur ace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat⊡rs □□□□dr□□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none De t (inc es): <u>n/a</u> **Hydric Soil Present?** Yes X No Remar⊡s: Hydric soil criterion is met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar Indicat_rs (minimum __t _ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re□uired□c□ec□all t□at a□□□) Sur ace S I Crac (B6) Drainage Patterns (B10) Sur ace Water (A1) Water-Stained Lea Es (B9) Hig□Water Ta ☐e (A2) A □uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta ☐e (C2) Saturati⊡n (A3) True A Luatic Plants (B14) Cra is Burr us (C8) Water Mar (B1) H⊑dr gen Sultide Od (C1) Saturati n Visi e n Aerial Imager (C9) Sediment De□sits (B2) Oxidi ed R = seres en Li ing R = ts (C3) Stunted T Stressed Plants (D1) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge m □r □ □ ic P □ siti □ n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) Tin Muc□Surace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) S arsel Vegetated C nca e Sur ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta ⊟e Present □ Yes NΠ Χ De □t□ (inc □es): Saturati⊡n Present□ De t (inc es): Wetland Hydrology Present? Yes X includes ca⊑illar□ īringe Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊑s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊑a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide:

Wetland hydrology criterion is met. Hydroperiod is seasonal.

Remar s:

Pr⊡ectiSite: Loom	is Road Parcels			Cit⊡C	□unt□: Milwaukee	Sa	am⊒ing Date: October 29, 2014	
A□□licantiO□ner:	Bear Developme	ent, LLC		<u> </u>	State:	WI	Sam⊡ing P⊡nt: T-7 DP	P-13 UPL
In⊑estigat⊡r(s):	Heather D. Patti	, PWS			Secti⊡n, T⊡□ns⊡□, Ra	inge: S	Section 30, T5N R21E	
Land⊡rm (⊡llsl⊡e, t	errace, etc.): b	ackslope		L⊡cal reli	e⊑(c⊡nca⊡e, c⊡n⊡ex, ni	□ne): <u>s</u>	slightly convex	
SI□□e (□): <u>5%</u>		Lat: See Figure 2		L⊡ng: See Figure 2			Datum: See Figure 2	
S⊡l Ma□ Unit Name:		Elliott silt loam 1-3	% slopes (AsA), Hy	dric Inclusions	W	WI Classi∄c	cati⊡n: none	
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡s time ⊡	□□ear□	Yes	X N□	(i	[i⊡n□, ex⊡ain in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊡I	N □r H⊡dr□□g□	N _signi icantl□	distur□ed□	Are "N⊡rmal Circums	stances" ⊡re	esent□ Yes	N□ <u>X</u>
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H □dr □ □g □	<u>N</u> naturall□ □r□	⊒ematic□	(i⊡needed, ex⊡ain ar	n□ans□ers	in Remar⊡s)	
SUMMARY OF	FINDINGS /	Attach site map sho	wing sampling	noint locations	ransacts import	tant foat	ures etc	
H⊡dr⊡⊡tic Vegetati		Yes			ls t⊡e Sam⊡ed Area			
H⊡dric S⊡l Present□		Yes X			□it⊡n a Wetland□		Yes No	Х
Wetland H⊡dr⊒⊡g□P	resent□	Yes	N	<u>X</u>	I□⊡es, □□ti□nal □etlar	nd site ID:	N/A	
Remar⊡s:	*Active corn fiel	d - corn is healthy, no cre	op stress					
	Does not meet a	II three wetland criteria.	There is a slight to	pographic break along	the wetalnd boundar	ry.		
VEGETATION -	Lise scientific r	names ⊞r □ants.				-	Sam⊟ing P⊑int: T-7	DP-13 UPL
VEGETATION -	Ose scientile i	A□s□ute □	D⊡minant Ir	ndicat⊡r				DF-13 UFL
Tree Stratum (PI⊡t si	⊑e: 30' R)	C⊟⊒er		Status	Dominance Te	est Worksh	neet:	
	·				Num⊡er □□D⊡n			
1. <u>n/a</u>					T⊡at Are OBL,	FACW, □r I	FAC: 0 (A)	
2					T⊡tal Num⊡er ⊡	□□D□minon	at .	
					S⊟ecies Acr⊟s			
5.							<u> </u>	
6.					Percent □□D□m			
7			T⊑tal C□⊑er		T⊡at Are OBL,	FACW, □r I	FAC: 0% (AIB)	
			T Lai C Lei		Prevalence Inc	dex Works	sheet:	
						al □ C⊡er		
					OBL s⊡ecies		x 1 =	
Sa ling S ru Stratu	m (PI⊡t si⊡e:	15'R)			FACW s⊡ecies	, <u> </u>	x 2 =	
					FAC s⊟ecies	_	x 3 =	
2					FACU s⊡ecies UPL s⊡ecies	_	x 4 = x 5 =	
					C⊟umn T⊡tals:	: -	(A)	(B)
5.						_		
6					Pre⊡alend	ice Index B	B/A =	
/			T⊑tal C□⊑er		Hydrophytic V	/egetation	Indicators:	
						-	⊞r H⊑dr□□□□tic Vegetati⊡n	
							Test is □50□	
							Index is ≤ 3.0 ¹	
Her□ Stratum (Pl⊡t si 1. Zea mays	⊡e: 5' R	<u>)</u> 90%	Y UP	•		U	cal Ada⊡tati⊡ns¹ (Pr⊡ide su⊡⊡rting emar⊡s ⊡r ⊡n se⊡arate s⊡eet)	9
2. Zea mays		90 /6	<u> </u>	<u> </u>	F		c H⊡dr□□□□tic Vegetati⊡n¹ (Ex⊡ain)	
3.								
4.					,			
5							and □etland □⊡dr□□g□must	
6					∟e ∟resent, ur	niess distur	r⊡ed ⊡r ⊡r⊡⊒ematic.	
8.								
9.								
12. 13.								
14.								
-		90% =	T⊡tal C⊡er					
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R)						
1. <u>n/a</u>								
2					Hydrophytic			
4.					Vegetation			
		:	= T⊡tal C⊡⊑er		Present?		Yes No X	
Pemaria: /lastude ==	Off num Para Para	□r □n a se⊡arate s⊡eet.)						
,		∟r ∟n a se∟arate s∟eet.) ot met. No crop stress ol	served.					

e⊑t□	combo to the dopin hood	led to docum	ent the indicato	r or confirm tl	ne absence d	of indicato	ors.)	
	Matrix			Red □x Featu	ıres			
c⊑es)	C⊟⊡r (m⊡st)		C□□r (m□st)		<u>T</u> ⊒e ¹	L⊡c ²	Texture	Remar⊡s
0-7	10YR 2/1	100%	, ,	· <u></u>			si cl loam	
7-12	10YR 2/1	95%	10YR 5/6	5%	С	М	si cl loam	
12-15	10YR 5/2	90%	10YR 5/6	10%		M	clay	
				•				
								
0-0 <u>-</u> 0	D-D	M			_	2	l Darkion, Di abour i	:-:
_e: C=C∟ncentrati∟n,	D=De □eti □n, RM=Reduce	ed Matrix, CS=	Cered _r C_at	ed Sand Grair	IS.		L⊡cati⊡n: PL=P⊡re L	ining, w=watrix
ric Soil Indicators:							Indicators for F	Problematic Hydric Soils ³ :
Hist⊡s⊟ (A1)		S	and□Gle⊡ed Ma	trix (S4)			C⊒ast F	Prairie Red⊡x (A16) (LRR,K,L,R)
Histic E i □ed □n (A2)			and□Red⊡x (S5					urtace (S7) (LRR,K,L)
Blac□Histic (A3)		s	tri⊟⊑ed Matrix (S	6)			5 cm m	uc⊡ ⊑eat ⊡r ⊑eat (S3) (LRR,K,L)
H⊡dr⊡gen Sulīde (A	4)		⊑am□Muc⊞ Mir	eral (F1)			Ir⊡n-Ma	inganese Masses (F12) (LRR,K,L,R)
Strati⊡ed La⊡ers (A5)	L	□am□ Gle ⊑ed Ma	ıtrix (F2)			Ver□S	all□□ Dar□Surāce (TF12)
2 cm Muc□(A10)			e ⊒eted Matrix (F	,			Ot⊡er (I	Ex□ain in Remar⊡s)
_ De □eted Bel □□ Dar	, ,		Red⊡x Dar⊡Sur⊠	` '				
_T⊡c□Dar□Sur⊡ce (,		e leted Dar □ Su	` '				
_Sand□Muc⊞Minera	al (S1)		Red⊡x De⊡ressi⊡	ns (F8)				
							3	
								⊡dr⊡⊡tic e⊡egetati⊡n and □etland
							•	□e □resent, unless distur□ed □r
							□r□□lematic.	
strictive Layer (if obs	erved):							
strictive Layer (if obs T⊡e: hard clay	erved):							
	,					Hyd	ric Soil Present?	YesX No
T □ e: hard clay De □ t □ (inc □ es): 15	п				15 4 450 1			Yes X No
T⊡e: hard clay De⊡t□ (inc⊡es): 15	,	s F6 and likle	y to meet A12, b	ut could only	dig to 15" d			Yes X No
T □ e: hard clay De □ t □ (inc □ es): 15	п	s F6 and likle	y to meet A12, b	ut could only	dig to 15" d			Yes <u>X</u> No
T □ e: hard clay De □ t □ (inc □ es): 15	п	s F6 and likle	y to meet A12, b	ut could only	dig to 15" di			Yes <u>X</u> No
T □ e: hard clay De □ t □ (inc □ es): 15	п	s F6 and likle	y to meet A12, b	ut could only	dig to 15" di			Yes <u>X</u> No
T □ e: hard clay De □ t □ (inc □ es): 15	п	s F6 and likle	y to meet A12, b	ut could only	dig to 15" di			Yes <u>X</u> No
T :: hard clay Dett (inc :: 15 har :: Hydric so	п	s F6 and likle	y to meet A12, b	ut could only	dig to 15" di			Yes <u>X</u> No
T :: hard clay Dett (inc :: 15 har :: Hydric so	п	s F6 and likle	y to meet A12, b	ut could only	dig to 15" di			Yes <u>X</u> No
Time: hard clay Detti (incies): 15 maris: Hydric so	" il criterion is met. Meets	s F6 and likle	y to meet A12, b	ut could only	dig to 15" di		d clay.	Yes X No lar⊡Indicat⊡rs (minimum □t□□re□uired)
T :: hard clay De :: (inc :: : : : : : : : : : : : : : : : : :	" il criterion is met. Meets			ut could only	dig to 15" di		d clay.	
T :: hard clay De :: (inc :: s): 15 mar :: Hydric so TOROLOGY tland Hydrology Indinar Indicat :: s (minim	il criterion is met. Meets	ec⊟all t⊡at a⊡	10)		dig to 15" di		d clay.	lar⊡Indicat⊡rs (minimum ⊡t⊡⊡re⊡uired)
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T □ e: hard clay De □ (inc □ es): 15 mar □ s: Hydric so /DROLOGY tland Hydrology Indimar □ Indicat □ rs (minimar	il criterion is met. Meets cators: um ==ne is re_uired_c_e	oc□all t⊏at a□□□ V □□□□ A □□□□ F	l⊑) Vater-Stained Le: ∟uatic Fauna (B 'rue A∟uatic Plan l⊡dr⊡gen Sul∐de)xidi⊡ed Rü⊡⊑s⊔	a⊡es (B9) 13) ts (B14) Od⊡r (C1) ⊡eres ⊡n Li⊡nį			d clay.	lar□Indicat⊡rs (minimum □t□□re□uired) Suríace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1)
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TIE: hard clay Dett (incles): 15 marts: Hydric so **TOROLOGY** **Itland Hydrology Indimar* Indicattrs (minim Surface Water (A1) Hig Water Talle (A Saturatin (A3) Water Marts (B1) Sediment Detsits (B5) Indicattrs (B5) Inundatin Visitle in	cators: umne is re_uired_c_e 2) B2) Aerial Imager_(B7) C_nca_e Sur ace (B8) Yes Yes Yes	PC all toat a construction of the construction	Vater-Stained Le: \[\textbf{\textbf{Lattic}} \] \[\textbf{\textbf{Lattic}} \] \[\textbf{\textbf{Lattic}} \] \[\textbf{Lattic} \]	a⊡es (B9) 13) ts (B14) Od⊡r (C1) ⊡eres ⊡n Li⊡ng ced Ir⊡n (C4) cti⊡n in Tilled \$ e (C7) ta (D9) Remar⊡s)	g R⊡ts (C3)		Sec⊡nd	ar□Indicat⊡rs (minimum □t□□re□uired) Surīace S□l Cracြs (B6) Drainage Patterns (B10) Dr□Seas□n Water Ta□e (C2) Cra□is□Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)
T□e: hard clay De□t□ (inc□es): 15 mar□s: Hydric so /DROLOGY taland Hydrology Indimar□Indicat□rs (minim Surïace Water (A1) Hig□Water Ta□e (A Saturati□n (A3) Water Mar□s (B1) Sediment De□sits (B3) Algal Mat □r Crust (B Ir□n De□sits (B3) Inundati□n Visi□e □r S□arsel□Vegetated (Id Observations: Tace Water Present□ turati□n Present□	cators: umne is re_uired_c_e 2) B2) Aerial Imager_(B7) C_nca_e Sur ace (B8) Yes Yes Yes	PC□all t□at a□□ V A T F C C N□ X N□ X N□ X N□ X	l□) Vater-Stained Le. □uatic Fauna (B' □rue A□uatic Plan □dr□gen Sul□de Didi□ed R□□□□ Presence □□Redu tecent Ir□n Redu tel m Muc□Sur□ac Bauge □ Well Da bt□er (Ex□ain in I De□t□ (inc□es): De□t□ (inc□es):	alles (B9) 13) ts (B14) Odir (C1) leres in Lifing ced Irin (C4) ctiin in Tilled S e (C7) ta (D9) Remaris)	g R⊡ts (C3) S⊡ls (C6)		Sec⊡nd	ar□Indicat⊡rs (minimum □t□□re□uired) Surīace S□l Cracြs (B6) Drainage Patterns (B10) Dr□Seas□n Water Ta□e (C2) Cra□is□Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)
T ==: hard clay De == (inc ==s): 15 mar ==: Hydric so TDROLOGY tland Hydrology Indinar Indicat == (A1) Hig == Water (A1) Hig == Water (A3) Water Mar == (B1) Sediment De == sits (B3) Algal Mat == Crust (B1) In == Les == (B5) In == Les == (B5) In == Les == (B5) In === Les == (B5) In == Les == (B5	cators: num ===ne is re_uired cce 2) B2) A Aerial Imager (B7) C nca e Sur ace (B8) Yes Yes Yes Yes 1, 1-foot contour map	V	Vater-Stained Le. \time A\text{Latic Fauna (B)} \time A\text{Latic Plan} \time ALatic P	aces (B9) 13) 13) 13) 14 (C1) 15 (C1) 16 (C4) 16 (C7) 17 (C4) 18 (C9) 18 (C9) 19 (C7) 19 (C9) 19 (g R⊡ts (C3) S⊡ls (C6) a⊡aila⊟e: ial Maps fron	ue to hard	Sec⊡nd	lar Indicat rs (minimum re re uired) Sur ace S r Crac (B6) Drainage Patterns (B10) Dr Seas Water Ta (C2) Cra s Rurr (C8) Saturati Visi e Aerial Imager (C9) Stunted r Stressed Plants (D1) Ge r Crec Positi (D2) FAC-Neutral Test (D5)
T□e: hard clay De□t□(inc□es): 15 DROLOGY Iand Hydrology Indinar□Indicat□rs (minims Sur□ace Water (A1) Hig□ Water Ta□e (A Saturati□n (A3) Water Mar□s (B1) Sediment De□sits (B3) Algal Mat □ Crust (B Ir□ De□sits (B5) Inundati□n Visi□e □r S□arsel□Vegetated □ d Observations: ace Water Present□ er Ta□e Present□ urati□n Present□ u	il criterion is met. Meets cators: um ==ne is re_uired c_e 2) B2) A Aerial Imager (B7) C_nca e Surace (B8) Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	V	Vater-Stained Le. \time A\text{Latic Fauna (B)} \time A\text{Latic Plan} \time ALatic P	aces (B9) 13) 13) 13) 14 (C1) 15 (C1) 16 (C4) 16 (C7) 17 (C4) 18 (C9) 18 (C9) 19 (C7) 19 (C9) 19 (g R⊡ts (C3) S⊡ls (C6) a⊡aila⊟e: ial Maps fron	ue to hard	Sec⊡nd	lar Indicat rs (minimum re re uired) Sur ace S r Crac (B6) Drainage Patterns (B10) Dr Seas Water Ta (C2) Cra s Rurr (C8) Saturati Visi e Aerial Imager (C9) Stunted r Stressed Plants (D1) Ge r Crec Positi (D2) FAC-Neutral Test (D5)

Pr⊡ectiSite: Loom	is Road Parcels			Cit□C□unt□ Milwaukee	Sam⊟ing Date: October 29, 2014
A□□icantɪO□ner:	Bear Developme	ent, LLC	_	State: W	Sam⊡ing P⊡nt: T-7 DP-14 WTD
In⊡estigat⊡r(s):	Heather D. Patti	, PWS		Secti⊡n, T□□ns⊡, Range:	Section 30, T5N R21E
Land⊞rm (⊑illsI⊟e, t	terrace, etc.):	wetland depression		L ⊡cal relie ⊡(c ⊡nca ⊡e, c ⊡n ⊡ex, n ⊡ne):	concave
SI□□e (□): 0 %		Lat: See Figure 2	L⊡ng: See l	Figure 2	Datum: See Figure 2
S⊡l Ma□ Unit Name:		Markham silt loar	n 2-6% slopes (MeB), Non-hydric	WWI Clas	si⊈cati⊑n: none
Are climatic □□□dr□□	aic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡is time l	□□ear□	Yes X N□	(i⊡n⊒, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	*Y S⊡I	N ⊡rH⊡dr⊡⊡g⊟	N signi⊡cantl⊡distur⊡ed⊡	Are "N□rmal Circumstances'	
Are Vegetati⊡n	N SI	N □rH□dr□□g□	**Y naturall □ r□□lematic □	(i⊡needed, ex⊡ain an⊡ans⊡	
-				•	•
SUMMARY OF	FINDINGS A	Attach site map sho	owing sampling point locat	tions, transects, important fe	atures, etc.
H⊡dr□□□□tic Vegetati	□n Present□	Yes X	N .	ls t⊡e Sam⊡ed Area	
H⊡dric S⊡l Present□		Yes X	N 🗆	□it⊡in a Wetland□	Yes X N□
Wetland H⊑dr⊒⊑g□F		Yes X	. N□	I⊡es, □ti⊡nal □etland site I	
Remar⊡s:	*Active agriculto **Seasonal hydr	•	this corner due to wetness. Wetn	ess signatures are visible on recent	aerials especially 2000 & 2013.
VEGETATION -	Use scienti∄c ı	names ⊞r ⊒ants.			Sam⊡ing P⊡nt: T-7 DP-14 WTD
Tree Stratum (PI⊡t si	⊑e: 30'R	A⊡s⊡ute □) C⊡er	D⊡minant Indicat⊡r S⊡ecies Status	Dominance Test Wor	ksheet:
				Num⊑er □□D⊡minant S	
1. <u>n/a</u>				T⊡at Are OBL, FACW,	□ FAC: 1 (A)
				T⊡tal Num⊡er □□D⊡mii	pant
				S⊑ecies Acr⊑ss All Str	
				SEGGO AGESS All Oth	(5)
				Percent □□D□minant S	□ecies
7.				T⊑at Are OBL, FACW,	□r FAC:(A·B)
		=	T⊡tal C⊡er		
				Prevalence Index Wo T⊡tal □ C□	
				OBL s⊡ecies	x 1 =
Sa⊟ingเ\$⊡ru□Stratu	m (Pl⊡t si⊡e:	15'R)		FACW s⊟ecies	x 2 =
1. <i>n/a</i>	(FAC s⊡ecies	x 3 =
2.				FACU s⊡ecies	x 4 =
3.				UPL s⊡ecies	x 5 =
				C⊟umn T⊡tals:	(A) (B)
5					
6				Pre⊡alence Inde:	x B/A = <u>n/a</u>
7			T⊡tal C□⊡er	Hydrophytic Vegetati	on Indicators:
			Tadi Olasi		est ⊞r H⊡dr□□□tic Vegetati⊡n
					nce Test is □50□
					nce Index is ≤ 3.0 ¹
Her□ Stratum (PI⊡t si	i⊑e: 5'R)		Morand	⊑gical Ada⊑tati⊡ns¹ (Pr⊡ゴde su⊐⊐⊐rting
1. Echinochloa ci		20%	Y FACW		n Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. Xanthium strui		5%	N FAC	Pr⊡lem	atic H⊡dr□□□⊡tic Vegetati⊡n¹ (Ex⊡ain)
3. Hibiscus trinor	nium	5%	N UPL		
5.				1 Indicators according a	াl and □etland □⊡dr⊡⊑g□must
6.					stur⊑ed ⊡r ⊡r⊡Dematic.
7.				E Bescht, diffess dis	sured a describatio.
8.					
9.					
10.					
11.					
14		30% =	T⊡tal C⊡er		
			I Ltai C Lei		
W□□d□Vine Stratum	(Pl⊡t si⊡e: 30'R	<u>)</u>			
1. n/a					
2					
3				Hydrophytic	
4			= T⊡tal C⊡er	Vegetation Present?	Yes Y No
				Fieseitt	Yes X No
Remar⊡s: (Include □	□t□ num □ers □ere	□r □n a se□arate s□eet.)		I	
			sumably due to spring wetness - m	nostly bare ground.	

SOIL T-7 DP-14 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features (inc ⊑es) C□□r (m ist) C□□r (m□st) L □c² **Texture** Remar s 10YR 2/1 0-5 100% si cl loam 5-10 10YR 2/1 90% 10YR 5/6 10% М si cl loam 10-15* 10YR 5/2 85% 10YR 5/6 15% М silty clay ²L□cati□n: PL=<u>P□re Lining, M=Matrix</u> T⊡e: C=C □ncentrati □n, D=De □eti □n, RM=Reduced Matrix, CS=C □ered □r C □ated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red □x (A16) (LRR,K,L,R) Sand ☐ Gle ☐ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed □n (A2) Sand □ Red □x (S5) Dar□Sur@ce (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H dr gen Sulide (A4) L□am□Muc□□Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am □ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) X De leted Bel Dar Sur ace (A11) Red x Dar Sur ace (F6) T ic Dar Sur ace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat⊡rs □□□□dr□□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: hard clay De It ☐ (inc ☐es): 15" Hydric Soil Present? Yes X No Remar s: Hydric soil criterion is met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar Indicat_rs (minimum __t _ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re□uired□c□ec□all t□at a□□□) Sur ace S I Crac (B6) Drainage Patterns (B10) Sur ace Water (A1) Water-Stained Lea Es (B9) Hig□Water Ta ☐e (A2) A □uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta ☐e (C2) Saturati⊡n (A3) True A uatic Plants (B14) Cra is Burr s (C8) Saturati⊡n Visi⊡e ⊡n Aerial Imager (C9) Water Mar (B1) H⊑dr gen Sultide Od (C1) Sediment De□sits (B2) Oxidi ed R = seres en Li ing R = ts (C3) Stunted T Stressed Plants (D1) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge m r □ ic P siti n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) Tin Muc□Surace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) X S arsel Vegetated C nca e Sur ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta le Present l Yes NΠ Χ De □t□ (inc □es): Saturati⊡n Present□ De t (inc es): Wetland Hydrology Present? Yes X includes ca⊑illar□ īringe Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊑s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊑a⊡aila⊡e:

USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D),

Wetland hydrology criterion is met. Visible primarily on spring aerials, especially 2000 and 2013. Wetland was too small to interpret on poor

quality FSA slides.

Remar s:

WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide:

Pr⊡ectiSite: Loom	is Road Parcels			Cit⊡C□	unt⊡ <u>Milwaukee</u>		Sam⊡ing Date: October 29,	, 2014
A□□licantiO□ner:	Bear Developme	ent, LLC			State:	WI	Sam⊡ing P⊡n	t: T-8 DP-15 UPL
In⊑estigat⊑r(s):	Heather D. Patti,	PWS			Becti⊡n, T⊡□ns⊡□, R	Range:	Section 30, T5N R21E	
Land⊡rm (⊡illsl⊡e, t	errace, etc.): b	ackslope		L⊡cal relie	⊑(c⊡nca⊡e, c⊡n⊡ex,	n⊡ne):	convex	
SI□□e (□): 20 %		Lat: See Figure 2		L⊡ng: See Figure 2		- -	Datum: See Figure	2
S⊡l Ma□ Unit Name:		Morley silt loam 2	-6% slopes (MzdB),	Non-hydric	v	WWI Classi	iūcati⊡n: n	one
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊡r t⊡s time □	⊑ear□	Yes	X N□		(i⊡n□, ex⊡ain in Remar⊡s)	
Are Vegetati⊡n	<u>N</u> S⊡I	N _□r H⊡dr□□g□	N _signi∄cantl□di	stur⊡ed□	Are "N⊡rmal Circum	nstances" [□resent□ Ye	s <u>X</u> N□
Are Vegetati⊡n	N S⊡I	N □r H □dr □ □g □	N naturall□□r□□	ematic□	(i⊡needed, ex⊡ain a	an□ans□er	ers in Remar⊡s)	
CHMMARVAE	EINDINGS /	\ttack cita man cha	vina complina i	agint logations to	rancasta impa	rtant for	nturas ata	
		Attach site map sho					itures, etc.	
H⊡dr⊡⊡∷tic Vegetati	□n Present□	Yes	N□		Is t⊡e Sam⊡ed Are	:a		
H⊡dric S⊡il Present□		Yes	N		□it⊡in a Wetland□			_ N□ <u>X</u>
Wetland H⊡dr⊒⊡g□P	resent□	Yes	N	X	I□⊑es, □□ti□nal □etl	and site ID:): N/A	
Remar⊡s:	Does not meet t	he three wetland criteria.						
VECETATION	lles scientiffs r	amaa IIIr Hanta					0 di Bd (T 0 DD 45 UDI
VEGETATION -	Ose scientilic i	names ⊞r □ants.	Dominant	r (5			Sam⊒ing P⊑int:	T-8 DP-15 UPL
Tree Stratum (PI⊡t si	e: 30'R)	A⊡s⊡ute □ C⊡⊑er		licat⊡r tatus	Dominance 1	Test Works	sheet:	
moo oudtam (r i iz oi:	<u> </u>	0001	0_0000	tatus	Num⊡er □□D□	□minant S□	ecies	
1. Quercus macro	carpa	20%	Y FAC		T⊡at Are OBL	_, FACW, 🗆	r FAC: 3	_(A)
2. Quercus alba		20%	Y FAC	<u>U</u>	T IN			
3					T⊡tal Num⊡er S⊡ecies Acr⊡			(B)
5.					0 2000 7 101 2	50 7 til Otlati		_(5)
6.					Percent □□D□	⊒minant S⊡	ecies	
7.					T⊡at Are OBL	_, FACW, 🗆	r FAC: 50%	_(AB)
		40 % = T	⊡tal C⊟⊑er	-	Prevalence li	nder Merl	kahaati	
						⊒tal □ C□⊡e		ido oc
					OBL s⊡ecies			0
Sa⊟ingเ\$⊡ru⊟Stratur	m (PI⊡t si⊡e:	15'R)			FACW s⊡ecie	es	0 x 2 =	0
1. Lonicera x bella		30%	Y FAC		FAC s⊡ecies			50
2. Rhamnus catha		10%	Y FAC		FACU s ecies			140
3		 -			UPL s⊡ecies C⊟umn T⊡tal:			0 590 (B)
_					O danni i dan			(5)
6.					Pre⊡ale	ence Index	B 🖟 = 3.7	
7		400/	⊡tal C⊡er		l budana abudia	W	- ladiantana	
		40 % = T	∟tai C⊔Ler		Hydrophytic	_	on Indicators: st	
							ce Test is 50	
					_	Pre⊡alenc	ce Index is ≤ 3.0 ¹	
Her□ Stratum (PI⊡t si		<u>)</u>					gical Ada⊡tati⊡ns ¹ (Pr⊡ide si	•
1. Elymus repens		50%	Y FAC				Remar s r n se arate s e	
Barbarea vulga Cirsium vulgare		20% 10%	Y FAC		_	Pr⊔⊔emat	itic H⊡dr⊡⊡⊡tic Vegetati⊡n ¹ (I	±x⊔ain)
4.		1070	it TAG	-				
5.					¹ Indicat⊡rs □	□□□dric s⊡l	il and □etland □⊡dr□□g□mus	t
6					⊡e ⊡resent, ı	unless dist	tur⊡ed ⊡r ⊡r⊡⊒ematic.	
8.								
				 -				
11.								
12.								
13. 14.								
14.		80% = T	□tal C□□er					
W□⊡d□Vine Stratum	/Pl⊡tei⊏a: 30'P	١						
viile oli alulii	1a o.a. oo it							
1. n/a	_							
2								
3					Hydrophytic			
^{4.}			T⊡tal C□⊡er		Vegetation Present?		Yes No	o X
								
,		⊡r ⊡n a se⊡arate s⊡eet.)	and more moderns	4				
mydropnytic vegeta	LION CRITERION IS NO	ot met. Old field edge aro	ina man-made pond					

SOIL								Sam⊡ing P□	int: T-8 DP-15 UPL
Profile Description:	(Describe to the depth nee	eded to docum	ent the indicate	or or confirm t	he absence o	of indicate	ors.)		
De⊡t□	Matrix	dea to docum	ioni ino maioait	Red⊡x Feat		or intuibute	515.7		
(inc⊑es)	C□□r (m□st)		C⊟⊡r (m⊡st)		<u>T</u> ⊡e ¹	L□c ²	Texture	Remai	·_s
0-12	10YR 3/2	100%					si cl loam		
12-15	10YR 3/2	95%	10YR 5/6	5%	С	М	si cl loam		
15-20	10YR 4/3	90%	10YR 5/6	10%	С	М	silty clay		
								-	
				-11	-				
					-				
				_					
				-					
1						2			
¹ T⊞e: C=C⊡ncentrati	i⊡n, D=De⊡eti⊡n, RM=Redu	ced Matrix, CS	=C⊡ered □r C□a	ited Sand Grai	ns.		L⊡cati⊡n: PL=P⊡re Li	ining, M=Matrix	
Hydric Soil Indicator	rs:						Indicators for P	Problematic Hydric Soils ³	
Hist⊡s⊟ (A1)			Sand□Gle⊡ed M	atrix (S4)			C⊡ast P	Prairie Red⊡x (A16) (LRR,K	,L,R)
Histic E⊡⊡ed⊡n ((A2)		Sand□Red⊡x (S	5)			Dar⊡Su	ır⊡ace (S7) (LRR,K,L)	
Blac□Histic (A3)			Stri⊟⊑ed Matrix (uc⊞ ⊡eat ⊡r ⊡eat (S3) (LRI	
H⊡dr⊡gen Sulüde	· /		L⊑am⊟Muc⊞ Mi					inganese Masses (F12) (LF	
Stratited La ers 2 cm Muc (A10)	· ,		L⊑am□Gle⊡ed M De⊒eted Matrix (⊡all□□ Dar□Surखce (TF12) Ex⊡ain in Remar⊡s)	
, ,	<i>)</i> Dar□Sur⊡ace (A11)		Red⊡x Dar□Sur				Otler (L		
T⊑ic□Dar□Sur⊡			De⊟eted Dar⊟S						
Sand□Muc⊞Mi			Red⊡x De⊡ressi⊡						
								dr□□□tic e⊡egetati⊡n and	
								□e □resent, unless distur□e	ed ⊡r
							□r□□lematic.		
					1				
Restrictive Layer (if	observed):								
T⊡e: none							luia Oail BassautO	V	N- V
De⊡t□ (inc⊡es):	n/a					нуа	Iric Soil Present?	Yes	No X
Remar⊑s: Hydri d	soil criterion is not met.								
,									
HYDROLOGY									
TIT DICOLOGI									
Wetland Hydrology I	Indicators:						Sec⊡nd	ar□Indicat⊡rs (minimum □	<u>tt□□re□uire</u> d)
Primar□Indicat⊡rs (m	inimum □□□ne is re □uired □c	⊡ec□all t⊡at a⊡	1 0)					Sur ace S il Crac s (B6	5)
Sur ace Water (A	\1)	\	Water-Stained Le	ea⊑es (B9)				Drainage Patterns (B10)
Hig□Water Ta⊡e	e (A2)		A⊡uatic Fauna (E					Dr⊡-Seas⊡n Water Ta⊟	e (C2)
Saturati⊡n (A3)			True A⊡uatic Pla					Cra □is □ Burr □□s (C8)	- (20)
Water Mar s (B1			H⊑dr⊑gen Sul⊈de Ovidi⊑ed B⊑i⊞ei					Saturati n Visi e n Ae	
Sediment De□s Drit De□sits (B:			Oxidi⊡ed R⊡i⊞si Presence □□Red					Stunted □r Stressed Pla Ge□m□r□□c P□siti□n (□	
Algal Mat □r Crus			Recent Ir⊡n Redi	. ,				FAC-Neutral Test (D5)	(2)
Ir⊡n De⊡sits (B			T⊡n Muc⊟Sur⊡a		0113 (00)		-	I AO-Nedital Test (D5)	
	e ⊡n Aerial Imager□(B7)		Gauge □r Well D						
	ted C⊡nca⊡e Sur⊡ace (B8)		Ot⊡er (Ex⊟ain in	. ,					
Field Observations:									
Sur ace Water Preser	nt□ Yes	N□ X	De ⊑t⊟ (inc ⊑es)						
Water Ta le Present □		N□ X	De⊡t⊟ (inc⊑es)		-				
Saturati⊡n Present□	Yes	N□ X	De ⊡t □ (inc □es)		_		Wetlar	nd Hydrology Present?	Yes No X
(includes ca⊡llar□ īrin	ige)					1			
	ata (atraam sausa monitoria	ng □ell, aerial □	⊟⊟t⊡s, ⊡re⊡⊡us i	ns⊡ecti⊡ns), i⊡	a⊑aila⊒e:				
Descri⊡e Rec⊡rded D	ata (stream gauge, militilian								
	gure 1), 1-foot contour map	-		(Figure 3), Aeı	rial Maps fron	n 2000, 2	005, 2010, and 2013	(Figures 4A-D),	
USGS topo map (Fig		(Figure 2), N	RCS Soils Map			n 2000, 2	005, 2010, and 2013	(Figures 4A-D),	
USGS topo map (Fig WWI map (Figure 5),	gure 1), 1-foot contour map , NOAA's AHPS map (Figu	o (Figure 2), NI re 6), Local W	RCS Soils Map			n 2000, 2	005, 2010, and 2013	(Figures 4A-D),	
USGS topo map (Fig WWI map (Figure 5),	jure 1), 1-foot contour map	o (Figure 2), NI re 6), Local W	RCS Soils Map			n 2000, 2	005, 2010, and 2013	(Figures 4A-D),	

Pr⊡ectiSite: Loon	nis Road Parcels				Cit⊡C□unt□ Milwaukee	Sam⊡ing Date: October 29, 2014
A□□licantiO□ner:	Bear Developm	ent, LLC			State: V	VI Sam ☐ing P ☐nt: T-8 DP-16 WTD
In⊡estigat⊡r(s):	Heather D. Patti				Secti⊡n, T⊡□ns⊡∟, Range:	Section 30, T5N R21E
Land⊞rm (⊑illsI⊟e,	terrace, etc.):	wetland depression			L □cal relie □(c □nca □e, c □n □ex, n □ne):	concave
SI□□e (□): 0%		Lat: See Figure 2		L⊡ng: Se e	e Figure 2	Datum: See Figure 2
S⊡l Ma□ Unit Name	: <u> </u>	Blount silt loam, 1	-3% slopes (BIA	A), Hydric Inclusio	ons WWI Clas	ssiicati⊡n: none
Are climatic □□dr□	⊑gic c⊡nditi⊡ns ⊡n ti	⊒e site t⊡ical ⊞r t⊡s time			Yes X N□	(i⊡n□, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>N</u> S⊡i	<u>N</u>		antl□distur⊡ed□	Are "N⊡rmal Circumstances	
Are Vegetati⊡n	<u>N</u> S⊡I	N □rH⊡dr□□g□	N naturall	□ □r□□lematic□	(i⊡needed, ex⊡ain an⊡ans	⊒ers in Remar⊡s)
SUMMARY OF	FINDINGS	Attach site map she	owing samp	ling point loca	ations, transects, important fo	eatures, etc.
H⊑dr⊒⊒⊒tic Vegetat		Yes X			ls t⊡e Sam⊡ed Area	,
HEdric SEI Present		Yes X	_ IN□		it ⊡in a Wetland □	YesXN□
Wetland H⊡dr⊡ □g □ F		Yes X	_ N□		I⊡es, ⊡ti⊡nal ⊡etland site	
					· ·	
Remar⊡s:	Man-made pond	d with tile outlet on north	end - there is a	strong topograph	hic break along the entire wetland bo	undary.
VEGETATION -	- Use scienti∄c	names				Sam⊟ing P⊡nt: T-8 DP-16 WTD
		A⊡s⊟ute □	D⊡minant	Indicat⊡r		
Tree Stratum (PI⊡t s	i⊡e: 30'R) C□⊡er	S⊑ecies	Status	Dominance Test Wo	rksheet:
1					Num⊡er □□D□minant	
1. <u>n/a</u> 2.		- —			T⊡at Are OBL, FACW	, _r FAC:(A)
3.					T⊑tal Num⊑er □□D⊡m	inant
4.					S⊡ecies Acr⊡ss All St	
5.						
6					Percent □□D□minant S	
7			T⊑tal C□⊑er		T⊡at Are OBL, FACW	, □r FAC:(A⊞)
					Prevalence Index We	orksheet:
					T⊡tal □ C	□ Multi □ □ □
	(DI- :-	\			OBL s⊡ecies	x 1 =
Sa ling S ru Stratu 1. n/a	um (PI∟t si∟e:	15'R)			FACW s⊡ecies FAC s⊡ecies	x 2 = x 3 =
2.					FACU s⊑ecies	x 4 =
					UPL s⊡ecies	x 5 =
					C⊡umn T⊡tals:	(A) (B)
5					Des Colones Inde	u. Dra –
6. 7					Pre⊡alence Inde	ex BIA =
· · -			T⊡tal C□⊡er		Hydrophytic Vegetat	ion Indicators:
						⁻ est ⊞r H⊡dr⊒⊒⊒tic Vegetati⊡n
						nce Test is □50□
Her□ Stratum (PI⊡t s	si⊑e: 5'R	1				nce Index is ≤ 3.0 ¹ 1⊡qical Ada⊡tati⊡ns¹ (Pr⊡⊡de su⊐⊐rting
Typha latifolia		60%	Υ	OBL		n Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. Bidens frondo		30%	Υ	FACW	Pr⊡len	natic H⊡dr□□□□tic Vegetati⊡n¹ (Ex⊡ain)
3. Dactylis glome	erata	20%	N	FACU		
4. 5.		<u> </u>			1 Indicators COOdrig	s⊡l and □etland □⊡dr□□g□must
6.						istur⊑ed □r □r□□ematic.
7.		<u> </u>				
8.						
9						
10. 11.		- —				
12.						
13.						
14.						
		110% =	: T⊡tal C□⊡er			
W□□d□Vine Stratum	n (Pl⊡tsi⊡e: 30'R)				
1 Vitia vinavia		20/		FACIN		
1. Vitis riparia 2.		3%	<u>N</u>	FACW		
3.					Hydrophytic	
4.					Vegetation	
		3%	= T⊡tal C⊡er		Present?	Yes X No
Remar⊑s: (Include □	□□t□ num □ers □ere	□r □n a se⊡arate s⊡eet.)			<u> </u>	
Hydrophytic vegeta	ation criterion is m	net. Man-made pond with	tile outlet dep	ression on north e	end.	
1						

SOIL T-8 DP-16 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red x Features (inc □es) C□□r (m ist) C□□r (m□st) L □c² **Texture** Remar⊡s 0-10 10YR 4/1 10YR 5/6 clay loam ²L□cati□n: PL=<u>P□re Lining, M=Matrix</u> T⊡e: C=C⊡ncentrati⊡n, D=De⊡eti⊡n, RM=Reduced Matrix, CS=C⊡ered ⊡r C⊡ated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red □x (A16) (LRR,K,L,R) Sand ☐ Gle ☐ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed □n (A2) Sand □ Red □x (S5) Dar□Sur@ce (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H dr gen Sulide (A4) L □ am □ Muc □ Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am □ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red □x Dar □ Sur ace (F6) T⊓ic□Dar□Surace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat⊡rs □□□□dr□□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none De It ☐ (inc ☐es): n/a **Hydric Soil Present?** Yes X No Hydric soil criterion is met. Hydric soil criterion was met in upper 10 inches, but in general the inundation is preventing observation of a Remar⊡s: deeper profile. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar Indicat_rs (minimum __t _ re_uired) Sur ace S il Crac (B6) Primar□Indicat⊡rs (minimum □□□ne is re□uired□c□ec□all t□at a□□□) Drainage Patterns (B10) X Sur ace Water (A1) Water-Stained Lea es (B9) X Hig□Water Ta□e (A2) A □uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta ☐e (C2) X Saturati □n (A3) True A Luatic Plants (B14) Cra is Burr s (C8) Water Mar (B1) H⊑dr gen Sultide Od (C1) Saturati ☐n Visi ☐e ☐n Aerial Imager ☐ (C9) Sediment De□□sits (B2) Oxidi ed R = seres en Li ing R = ts (C3) Stunted T Stressed Plants (D1) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge m □r □ □ ic P □ siti □n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) T in Muc Sur ace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) S□arsel□Vegetated C□nca□e Sur ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ De t (inc es): Water Ta ⊟e Present □ ΝΓ $De \Box t \Box$ (inc $\Box es$): Saturati⊡n Present⊡ De □t□ (inc □es): Wetland Hydrology Present? Yes X includes ca⊑illar□ īringe Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊑s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊑a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide:

Wetland hydrology criterion is not met. Hydroperiod Is long - surface water maintained throughout the growing season.

Note: not visible on FSA slides or aerials.

Remar s:

Pr⊒ectiSite: Loom	nis Road Parcels			Cit⊡C□	unt : Milwaukee	Sar	ım⊒ing Date: October 29, 201	4
A□□licantɪO□ner:	Bear Developm	ent, LLC			State:	WI	Sam⊡ing P⊡nt: T- 9	9 DP-17 UPL
In⊑estigat⊡r(s):	Heather D. Patti	i, PWS			Becti⊡n, T□□nsቯ□, Rar	nge: Se	ection 30, T5N R21E	
Land⊡rm (⊡llsl⊡e, t	terrace, etc.):	oackslope		L⊡cal relie	⊑(c⊡nca⊡e, c⊡n⊡ex, n□	⊒ne): co	onvex	
SI□□e (□): 10%		Lat: See Figure 2	L	.⊑ng: See Figure 2			Datum: See Figure 2	
S⊡l Ma□ Unit Name:		Ashkum silty clay	loam 0-2% slopes (As	A), Hydric	WW	NI Classi∄ca	ati⊡n: none	
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t	⊡e site t⊡ical ⊞r t⊡s time ⊡	⊟⊑ear⊟	Yes	X N□	(i 🗆	n□, ex⊒ain in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊡I	N □r H⊡dr□□g□	N _signi∄cantl□distu	ır⊑ed□	Are "N⊡rmal Circumst	tances" ⊡res	sent□ Yes	N□ X
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H⊡dr□□g□	N naturall□□r□□en	natic□	(i⊡needed, ex⊡ain an	า□ans□ers iı	n Remar⊡s)	
CUMMARY OF	FINDINGS	A44-ab ai4- man ab-						
SUMMARY OF	FINDINGS	Attach site map sho			ansects, importa	ant reatu	res, etc.	
H⊡dr⊡⊡⊡tic Vegetati	i⊡n Present□	Yes			Is t⊡e Sam⊡ed Area			
H⊡dric S⊡l Present□		Yes			□it⊡n a Wetland□		Yes	N□ X
Wetland H⊡dr⊒⊡g□P	Present□	Yes	N□ <u>X</u>		I□⊑es, □□ti□nal □etlan	nd site ID:	N/A	
Remar⊑s:	*Active corn fie	ld - corn is healthy, no cre	op stress	L.				
		land criteria have been m	-					
VEGETATION -	Use scienti∄c	names					Sam⊡ing P⊡nt:	T-9 DP-17 UPL
		A⊡s⊡ute □	D⊡minant Indic	at⊡r	Dominance Tes	st Workshe	eet:	
Tree Stratum (PI⊡t si	⊡e: 30'R	C□⊡er	S⊡ecies Stat	us	Num⊡er □□D⊡m			
1. <i>n/a</i>					T⊑at Are OBL, F)
2.							(,,	,
3.					T⊡tal Num⊡er □	⊒D⊡minant		
4					S⊡ecies Acr⊡ss	All Strata:	1(B))
5					Dereent DDD	sinant C⊐ssi	ina	
7					Percent □□D□mi T□at Are OBL, F			(B)
·· 		=	T⊡tal C⊡er					_,
					Prevalence Ind			
						al □ C⊡er □		
Sa⊡ingเ\$⊡ru⊟Stratu	ım (DI⊏t oi⊏o:	15'R)			OBL s⊡ecies FACW s⊡ecies		x 1 = x 2 =	
	iiii (F1 <u>Lt SILE.</u>	13 K)			FAC s⊟ecies	_	x 3 =	_
2.					FACU s⊡ecies		x 4 =	<u> </u>
3.					UPL s⊡ecies	_	x 5 =	<u> </u>
					C⊡umn T⊡tals:	_	(A)	(B)
					Pre⊡alenc	ce Index B	A = n/a	
7.					i ic Biclic	JC IIIGCX DE	n- <u>II/a</u>	
		=	T⊡tal C⊡⊑er		Hydrophytic Ve	egetation Ir	ndicators:	
							⊡r H⊡dr□□□⊒tic Vegetati⊡n	
							Test is □50□ ndex is ≤ 3.0¹	
Her□ Stratum (Pl⊡t si	i⊑e: 5'R)					ndex is ≤ 3.0 al Ada⊡tati⊡ns¹ (Pr⊡ide su⊡⊟	īrtina
1. Zea mays		90%	Y UPL				mar⊡s ⊡r ⊡n se⊡arate s⊡eet)	g
2.					P	³r⊡lematic l	H⊡dr□□□□tic Vegetati⊡n¹ (Ex⊡a	ain)
3								
4. 5.					¹ Indicat⊏re □□□	⊟dric e⊟l an	nd □etland □⊡dr⊡⊡g□must	
6.							led □r □r□□lematic.	
7.					•			
8.								
40								
12.								
13.								
14								
		90% =	T⊡tal C⊡⊑er					
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R	<u> </u>						
4								
1. <u>n/a</u>								
3.	_				Hydrophytic			
4.					Vegetation			
	<u></u>		= T⊡tal C⊡er		Present?		Yes No	<u>x _</u>
Remar s: (Include □	□t□ num⊓ers ⊓ere	□r □n a se⊑arate s⊑eet.)				-		
,		ot met. No crop stress of	served.					

Profile Description: (Describe to the depth ne De to Matrix							
e∏ Matriv	eded to docum	ent the indicator	r or confirm th	ne absence o	of indicate	ors.)	
ividitiX			Red⊡x Featu	ıres			
ıc⊡es) C□□r (m⊡st)		C⊟⊡r (m⊡st)		<u>T⊡e¹</u>	L □c ²	Texture	Remar⊡s
0-8 10YR 4/2	100%					si cl loam	
8-13 10YR 3/2	100%					si cl loam	
13-20 10YR 5/2	90%	10YR 5/6	10%	С	М	silty clay	
					- —		
				. —	- —		
				. —	- —		
				-			
				. —	- —		
ше: C=C⊡ncentrati⊡n, D=De⊟eti⊡n, RM=Redi	uced Matrix CS:	=C□Tered □r C□at	ted Sand Grain	ıs	2	L⊑cati⊡n: PL=P⊡re L	ining M=Matrix
	acca Matrix, CC	CEDICA E CEL	lou Guna Gran		'		
dric Soil Indicators:	_						Problematic Hydric Soils ³ :
Hist⊡s⊟ (A1) Histic E⊡⊟ed⊡n (A2)		Sand□Gle ⊑ed Ma Sand□Red⊑x (S5					Prairie Red⊡x (A16) (LRR,K,L,R) µr⊑ace (S7) (LRR,K,L)
Blac Histic (A3)		Stri⊟⊑ed Matrix (S					uc⊞ ⊑eat ⊡r ⊑eat (S3) (LRR,K,L)
H⊑dr⊑gen Sulūde (A4)		L⊡am□Muc⊡ Mir	,				inganese Masses (F12) (LRR,K,L,R)
Strati⊡ed La⊡ers (A5)	l	L⊑am□Gle⊑ed Ma	atrix (F2)			Ver□S	all□ Dar□Surace (TF12)
2 cm Muc□(A10)		De ⊟eted Matrix (F	,			Ot⊡er (Ex⊟ain in Remar⊡s)
De □eted Bel □ Dar □ Sur āce (A11)		Red⊡x Dar□Sur⊠ De⊡eted Dar⊡Su	` '				
T⊡c□Dar□Sur⊡ce (A12) Sand□Muc⊡Mineral (S1)		De⊟eted Dar⊟Su Red⊡x De⊡ressi⊡	. ,				
_ ` '			(- /				
						³ Indicat⊡rs □□□	dr□□□Itic e⊡egetati⊡n and □etland
						•	⊑e ⊡resent, unless distur⊡ed ⊡r
						□r□□lematic.	
(1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.							
estrictive Layer (if observed): T⊡e: none							
De t (inc es): n/a					Hvd	ric Soil Present?	Yes No X
De⊡t⊡(inc⊡es): <u>n/a</u>					Hyd	ric Soil Present?	Yes NoX
					Hyd	ric Soil Present?	Yes No _X
					Hyd	ric Soil Present?	Yes No X
					Hyd	ric Soil Present?	Yes No_X
					Hyd	ric Soil Present?	Yes No <u>X</u>
emar⊡s: Hydric soil criterion is met.					Hyd	ric Soil Present?	Yes No_X_
emar⊡s: Hydric soil criterion is met.					Hyd	ric Soil Present?	Yes No_X_
emar s: Hydric soil criterion is met.					Hyd		Yes No _X
Hydric soil criterion is met. YDROLOGY etland Hydrology Indicators:	c⊑ec□all t⊡at a⊡				Hyd		
Hydric soil criterion is met. YDROLOGY etland Hydrology Indicators:		□□) Water-Stained Le:	a⊡es (B9)		Hyd		ar⊡Indicat⊡rs (minimum ⊡t⊡□re⊡uired)
PMARTES: Hydric soil criterion is met. YDROLOGY etland Hydrology Indicators: imar□Indicat⊡rs (minimum □□ne is re□uired⊡c Sur ace Water (A1) Hig□Water Ta□e (A2)	\		. ,		Hyd		ar□Indicat⊡rs (minimum □t□□ re⊡uired) Surīāce Sūil Cracīs (B6)
Pemar S: Hydric soil criterion is met. YDROLOGY Setland Hydrology Indicators: Sur ace Water (A1) Hig□Water Ta□e (A2) Saturati□n (A3)		Water-Stained Le A⊡uatic Fauna (B True A⊡uatic Plan	13) its (B14)		Hyd		ar□Indicat⊡rs (minimum □t□□re□uired) Surīace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□Burr⊡s (C8)
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Pydrocody Setland Hydrology Indicators: Surface Water (A1) Hig Water Ta (A2) Saturation (A3) Water Mar (B1) Sediment De sits (B2) Drift De sits (B3) Algal Mat Crust (B4) Ir De sits (B5) Inundation Viside on Aerial Imager (B7) Scarsel Vegetated Concare Surface (B8) seld Observations: Unace Water Present Yes Saturation Present Yes Saturation Present Yes Surface Callar (Tinge)	N□ X N□ X N□ X N□ X	Water-Stained Le. A_uatic Fauna (B True A_uatic Flan H_dr_gen Sulfide Oxidi_ed Rd_us PresenceRedu Recent Ir_n Redu Tin Muc_Surfac Gauge _r Well Da Ot_er (Ex_lain in I	13) hts (B14) Od r (C1) eres In Liding iced Ir n (C4) cti n in Tilled S e (C7) ta (D9) Remar s)	S⊡ls (C6)	_	SecInd	ar Indicators (minimum to reuired) Surface Soll Cracos (B6) Drainage Patterns (B10) Droseason Water Table (C2) Cradiso Burros (C8) Saturation Viside on Aerial Imagero (C9) Stunted or Stressed Plants (D1) Geomorotic Position (D2) FAC-Neutral Test (D5)
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Pr⊡ectiSite: Loon	nis Road Parcels					Cit⊡C□unt□	Milwaukee	Sam⊡ing Date: October 29, 2014
A□□licantiO□ner:	Bear Developm	ent, LLC					State: W	Sam⊡ing P⊡nt: <u>T-9 DP-18 WTD</u>
In⊡estigat⊡r(s):	Heather D. Patti						in, T⊡□ns⊡i⊒, Range:	Section 30, T5N R21E
Land⊞rm (⊡llsl⊐e,	terrace, etc.):		d depression				nca⊡e, c⊡n⊡ex, n⊡ne):	concave
SI□□e (□): <u>0%</u>			See Figure 2			e Figure 2		Datum: See Figure 2
S⊡l Ma⊡ Unit Name				lay loam 0-2% sl	opes (AsA), Hydri		_	siticati⊡n: T3/W0Hx
Are climatic □□□dr□□	•						N	(i⊡n⊡, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>N</u> S⊡I N S⊡I				antl□distur⊑ed□ □□r□□lematic□		"N⊡rmal Circumstances" eeded, ex⊡ain an□ans⊡	
Are Vegetati⊡n	<u>N</u> 3 ₁₁		ii niuliiigii	IIaturan	ll ll llematic	יובו)	eeded, exilain anilansii	ers in Remails)
SUMMARY OF	FINDINGS	Attach	site map s	howing samp	ling point loc	ations, trans	ects, important fe	atures, etc.
H⊑dr⊒⊒⊒tic Vegetat	ti⊡n Present□		Yes X	N□		ls t□	e Sam⊡ed Area	_
H⊡dric S⊡l Present⊡			Yes X				in a Wetland□	YesX N□
Wetland H⊡dr⊡⊡g⊟F	Present□		Yes X			I⊟e	s, □⊑ti□nal □etland site II	
Remar⊡s:	Pond with outer	r farmed	nerimeter			<u>. </u>		
remai 3.	i ona with outer	Tarmed	perimeter					
VEGETATION -	- Use scienti∄c	names	⊞r □ants.					Sam ling P int: T-9 DP-18 WTD
Tue - Church use /DICh -	:=- aain	`	A⊡s⊡ute □	D⊡minant	Indicat⊡r		Dominance Test Worl	«sheet:
Tree Stratum (PI⊡t s	ile: 30°K	<u> </u>	C□□er	S⊡ecies	Status		Num⊡er □□D□minant S	□ecies
1. Salix nigra		_	60%	ΥΥ	OBL		T⊑at Are OBL, FACW,	
2.								
3							T tal Num er □D mir S ecies Acr s All Stra	
5.							OLECIES ACI LISS AII OUR	(D)
6.		- :					Percent □□D□minant S	_ecies
7			60%	= T⊡tal C□⊡er			T⊡at Are OBL, FACW,	□r FAC:(A⊞)
			60%			-	Prevalence Index Wo	rksheet:
							T tal C	
							OBL s⊡ecies	x 1 =
Sa ling S ru Stratu 1. Fraxinus penn		15'R)	10%	Υ	FACW		FACW s⊡ecies FAC s⊡ecies	x 2 = x 3 =
2.	syrvanica		10 /6	<u> </u>	TACW		FACU s⊡ecies	x 4 =
3.		- :					UPL s⊡ecies	x 5 =
-							C⊡umn T⊡tals:	(A) (B)
6.							Pre⊑alence Index	: BIA = n/a
7.							T TO Edition index	
' <u>-</u>			10%	= T⊡tal C□⊡er			Hydrophytic Vegetation	
								est ⊞r H⊡dr⊒⊒⊒tic Vegetati⊡n ace Test is ⊡50□
								ce Index is ≤ 3.0 ¹
Her□ Stratum (PI⊡t s)					Moreode	୍ରgical Ada⊡tati⊡ns¹ (Pr⊡ide su□□⊐rting
1. Phalaris arund	linacea		100%	Y	FACW			Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. 3.							Prulema	atic H⊡dr□□□Itic Vegetati⊡n ¹ (Ex⊡ain)
4.								
5.		_ :						il and □etland □dr□□g□must
6. 7.							□e □resent, unless dis	tur⊡ed ⊡r ⊡r⊡Iematic.
8.								
9.								
10								
11. 12.								
13.								
14.								
			100%	= T⊡tal C□⊡er				
W□□d□Vine Stratum	n (Pl⊡tsi⊡e: 30'R)						
1. Vitis riparia			10%	Y	FACW			
2.	-							
3							Hydrophytic Vegetation	
*-			10%	= T⊡tal C⊡er			Present?	Yes X No
		•		-				
Demorps //	100 t	D: D: -	a Parate - P- 11					
Remar s: (Include Difference Hydrophytic vegeta			.e∟arate s∟eet.))				
, spiry as veget								

SOIL T-9 DP-18 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features (inc □es) C□□r (m ist) C□□r (m□st) L □c² **Texture** Remar s 10YR 2/1 0-10 100% si cl loam 10-12 10YR 2/1 90% 10YR 5/6 10% М si cl loam 12-18 10YR 5/1 70% 10YR 5/6 30% М si cl loam ²L□cati□n: PL=<u>P□re Lining, M=Matrix</u> T⊡e: C=C □ncentrati □n, D=De □eti □n, RM=Reduced Matrix, CS=C □ered □r C □ated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red □x (A16) (LRR,K,L,R) Sand ☐ Gle ☐ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed □n (A2) Sand □ Red □x (S5) Dar□Sur@ce (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H dr gen Sulide (A4) L□am□Muc□□Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am □ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red □x Dar □ Sur ace (F6) X T ic □ Dar □ Sur ace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat⊡rs □□□□dr□□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Laver (if observed): T⊡e: none De t (inc es): <u>n/a</u> **Hydric Soil Present?** Yes X No Remar⊡s: Hydric soil criterion is met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar Indicat_rs (minimum __t _ re_uired) Sur ace S il Crac (B6) Primar□Indicat⊡rs (minimum □□□ne is re□uired□c□ec□all t□at a□□□) Drainage Patterns (B10) Sur ace Water (A1) Water-Stained Lea Es (B9) Hig□Water Ta ☐e (A2) A⊡uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta ☐e (C2) X Saturati n (A3) True A uatic Plants (B14) Cra is Burr s (C8) Water Mar (B1) H⊡dr gen Sulide Od (C1) Saturati n Visi e n Aerial Imager (C9) Sediment De □ sits (B2) Oxidi ed R = seres en Li ing R = ts (C3) Stunted T Stressed Plants (D1) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge m □r □ □ ic P □ siti □ n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Х Ir n De □sits (B5) Tin Muc□Surace (C7) X Inundati⊡n Visi⊡e ⊡n Aerial Imager □ (B7) Gauge □r Well Data (D9) S arsel Vegetated C nca e Sur ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ De t (inc es): Water Ta ⊟e Present □ Yes ΝΓ De t (inc es): 17' Saturati⊡n Present⊡ De □t□ (inc □es): Wetland Hydrology Present? Yes X includes ca⊑illar□ īringe Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊑s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊑a⊡aila⊡e:

Wetland hydrology criterion is met. Visible on most FSA slides and spring aerials.

USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide:

Remar s:

Pr⊡ectiSite: Loom	nis Road Parcels				Cit□C□unt□: Milwaukee	Sam⊟ing Date: October 29, 2014
A□□licantiO□ner:	Bear Developn	nent, LLC			State:	WI Sam ☐ing P ☐int: T-10 DP-19 UPL
In⊑estigat⊡r(s):	Heather D. Pat	ti, PWS			Secti⊡n, T□□ns⊡□, Range:	Section 30, T5N R21E
Land ⊞rm (⊡llsl ⊟e, t	terrace, etc.):	backslope			L□cal relie□(c□nca□e, c□n□ex, n□ne):	convex
SI□□e (□): 10%		Lat: See Figure 2		L⊡ng: See		Datum: See Figure 2
S⊡I Ma Unit Name:		Morley silt loam 2-6%	eroded slopes	· · ·		lassiticati⊡n: none
		t⊡e site t⊡ical ⊞r t⊡s time □	•	(0),	Yes X N□	
Are Vegetati⊡n	±gic c⊟iditi⊟is ⊟i *Y S⊟i			ntl□distur⊡ed□	Are "N□rmal Circumstance	
Are Vegetati⊡n	N Sil	<u>N</u> ⊡rH⊡dr□⊡g□ N□rH⊡dr□⊡g□	N naturall□		(i⊡needed, ex⊡ain an⊡an	
Are vegetation			II		(Infeeded, exhain annair	sees in Remark)
SUMMARY OF	FINDINGS	Attach site map sho	wing sampli	na point loca	ations, transects, important	features, etc.
						· · · · · · · · · · · · · · · · · · ·
H⊡dr□□□tic Vegetati		Yes		<u> </u>	Is t⊡e Sam⊡ed Area	
H⊑dric S⊑il Present□		Yes	_	Х	□it⊡in a Wetland□	Yes N□X
Wetland H⊡dr⊡⊡g□F	Present□	Yes	N□ _	Х	l⊡⊑es, □⊡ti⊡nal □etland sit	te ID: N/A
Remar⊡s:		eld - corn is healthy, no cro etland criteria have been m	-			
VEGETATION -	- Use scienti∄c	names				Sam ling P int: T-10 DP-19 UPL
		A⊡s⊒ute □	D⊡minant	Indicat⊡r	Dominance Test W	
Tree Stratum (PI⊡t si	i⊡e: 30'R) C⊟⊑er	S⊡ecies	Status		
					Num⊡er □□D⊡minan	
1. <u>n/a</u> 2.					T⊡at Are OBL, FAC\	W,
3					T⊡tal Num⊡er □□D□	minant
4.					S⊑ecies Acr⊑ss All S	
						, , ,
					Percent ⊞D⊡minan	it S⊡ecies
					T⊡at Are OBL, FAC	W, ☐r FAC:(A围)
		= 1	Γ⊑tal C⊟⊑er			
					Prevalence Index V	
					OBL s⊡ecies	C □ er □ Multi □ □ x 1 =
Sa⊡ingเ\$⊡ru□Stratu	ım (Pl⊡t si⊏e·	15'R)			FACW s⊡ecies	x 2 =
1. <i>n/a</i>	(FAC s⊡ecies	x 3 =
2.					FACU s⊡ecies	x 4 =
3.					UPL s⊡ecies	x 5 =
I =					C⊡umn T⊡tals:	(A) (B)
					Des Calanas In	den DCA - m/s
7					Pre⊡alence Inc	dex BIA = <u>n/a</u>
· ·		= 7	Γ⊑tal C□⊑er		Hydrophytic Veget	ation Indicators:
						l Test ⊞r H⊑dr⊒⊒⊒tic Vegetati⊑n
					D⊡mir	nance Test is ⊡50□
						alence Index is ≤ 3.0 ¹
Her□ Stratum (PI⊡t s	i⊑e: 5'R	<u>)</u>				□□□gical Ada⊡tati⊡ns¹ (Pr□□ide su□□□rting
1. Zea mays		90%		UPL		a in Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. Sinapsis arven	isis	10%	N	UPL	Prule	ematic H⊡dr⊡⊐⊡tic Vegetati⊡n¹ (Ex⊡ain)
3. 4.						
5.					¹ Indicat⊟rs ⊟⊟⊟drid	c s⊡l and □etland □⊡dr⊡⊡g□must
6.						distur⊡ed ⊡r ⊡r⊟⊒ematic.
7.					, i	
8.						
12. 13.						
14.						
l		100% = 7	Γ⊑tal C⊟⊑er			
Manada Via - Charles	/DID -: -: 2010	,				
W□⊡d□Vine Stratum	I (PILL SILE. JUK	<u></u>				
1. <i>n/a</i>						
_						
3.					Hydrophytic	
4.					Vegetation	
		=	: T⊡tal C□⊡er		Present?	Yes No <u>X</u>
Remar s: (Include	∏†∏num∏ers ∏er	e ⊑r ⊑n a se⊑arate s⊑eet.)			I	
,		not met. No crop stress ob	served.			
, , , , , , , , , , , , , , , , , ,						

SOIL T-10 DP-19 UPL Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features C⊟⊡r (m⊡st) (inc⊑es) C□□r (m ist) L □c² **Texture** Remar⊡s 0-10 10YR 3/1 100% si cl loam 10-15 10YR 3/1 95% 10YR 5/6 М si cl loam 15-20 10YR 5/2 90% 10YR 5/6 10% М silty clay ² L □cati □n: PL=<u>P □re Lining, M=Matrix</u> T⊡e: C=C □ncentrati □n, D=De □eti □n, RM=Reduced Matrix, CS=C □ered □r C □ated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red□x (A16) (LRR,K,L,R) Sand ☐ Gle ☐ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed n (A2) Sand □ Red □x (S5) Dar□Surace (S7) (LRR,K,L) Blac□Histic (A3) Stri □□ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H⊡dr⊡gen Suliide (A4) L am Muc Mineral (F1) Ir⊡n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am□ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De leted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red □x Dar □ Sur ace (F6) T ic Dar Sur ace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat rs □□□dr□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none De t (inc es): <u>n/a</u> **Hydric Soil Present?** No X Yes Remar⊡s: Hydric soil criterion is not met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar_Indicat_rs (minimum __t_ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re □uired□c□ec□all t□at a □□□) Sur ace S I Crac (B6) Water-Stained Lea es (B9) Drainage Patterns (B10) Sur ace Water (A1) Hig □ Water Ta □e (A2) A □uatic Fauna (B13) Dr⊡-Seas n Water Ta le (C2) Saturati n (A3) True A Luatic Plants (B14) Cra is Burr s (C8) Water Mar (B1) H⊡dr gen Suliide Od (C1) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Sediment De □sits (B2) Oxidi ed R = s = eres = Li ing R = ts (C3) Stunted □r Stressed Plants (D1) Dri t De □sits (B3) Presence □□Reduced Ir□n (C4) Ge□m□r□□ic P□siti□n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) T in Muc Sur ace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) Ot⊡er (Ex⊡ain in Remar⊡s) S arsel Vegetated C nca e Sur ace (B8) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta ☐e Present ☐ Yes NΠ Х De at (inc es): Saturati⊡n Present□ Yes De □t□ (inc □es): Wetland Hydrology Present? Yes No X (includes ca⊡illar□ īinge Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊡s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊡a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remar s: Wetland hydrology criterion is not met. No indication of consistent wetness on FSA crop slides or aerials.

Pr⊡ectiSite: Loomis Road Parcels Cit⊡				Cit □C □unt □ Milwaukee Sam □ling Date: October 29, 2014			
A□□licantiO□ner:	Bear Developme	ent, LLC			<u> </u>	State:	WI Sam ling P int: T-10 DP-20 WTD
In estigat r(s): Heather D. Patt		•				Secti⊡n, T⊡□ns⊡⊑, Range:	Section 30, T5N R21E
Land⊡rm (⊡llsl⊡e, t	errace, etc.):	wetland depre	ession		L⊡cal	relie⊑(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	slightly concave
SI□□e (□): 0%		Lat: See Fig	gure 2		L⊡ng: See Figur	e 2	Datum: See Figure 2
S⊡il Ma Unit Name:		Morley silt	loam 2-6%	eroded slopes	(MzdB2), Non-hydric	WWI Cla	assi⊈cati⊡n: none
Are climatic □□□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞	r t⊡s time ⊡	□⊑ear□	Y	es X N□	(i□n□, ex□ain in Remar⊡s)
Are Vegetati⊡n	N S⊡I	N ⊡r H⊡dr			ıntl□distur⊡ed□	Are "N⊡rmal Circumstance	
Are Vegetati⊡n	N SI	N □rH⊡dr	_		□ □r□□lematic□	(i⊡needed, ex⊡ain an⊡ans	
3			_			,	,
SUMMARY OF	FINDINGS A	Attach site r	map show	wing sampl	ing point locations	s, transects, important t	features, etc.
H⊡dr⊡□□tic Vegetati	□n Present□	Yes	x	NΠ		ls t⊡e Sam⊡ed Area	
H⊑dric S⊡l Present□		Yes				□it⊡n a Wetland□	Yes X N□
Wetland H⊡dr⊡ g □ P		Yes				I⊟es, ⊟ti⊟nal ⊟etland site	
Welland Hillard Blg F	Tesent	163	<u> </u>	IN		ILLES, LLILIAI Letianu sit	- U-0
Remar⊡s:	Pond with fresh	(wet) meadow	perimeter.	*Hydrology is	seasonal		
VEGETATION	11						
VEGETATION -	Use scienti IIc i						Sam ling P int: T-10 DP-20 WTD
T Ot (DISt -:	00ID		⊒ute □	D⊡minant	Indicat⊡r	Dominance Test We	orksheet:
Tree Stratum (PI⊡t si	Le: 30°R) (1	□er	S⊡ecies	Status	Num⊑er □□D⊡minant	t STeries
1. n/a						T⊑at Are OBL, FACV	
						T⊡tal Num⊡er □□D⊡r	ninant
						S⊑ecies Acr⊑ss All S	Strata: 3 (B)
5.							
6.						Percent □□D□minant	
7				[m-1000		T⊑at Are OBL, FACV	N, □r FAC: 100% (A⋅B)
			= '	⊺⊒tal C⊡er		Prevalence Index V	Workshoot:
						T al a	
						OBL s⊟ecies	x 1 =
Sa⊟ingเ\$⊡ru⊟Stratu	m (Pl⊡t si⊡e:	15'R)				FACW s⊡ecies	x 2 =
1. Salix interior	•	5	5%	Υ	FACW	FAC s⊑ecies	x 3 =
2.						FACU s⊡ecies	x 4 =
3.						UPL s⊡ecies	x 5 =
4						C⊡umn T⊡tals:	(A) (B)
						Des Colones Inc	do DEA
6						Pre ⊑alence Inc	dex B∄ = <u>n/a</u>
/·			5% = T	⊺⊒tal C⊟⊑er		Hydrophytic Vegeta	ation Indicators:
		-					Test ⊞r H⊡dr□□□□tic Vegetati⊡n
							nance Test is ⊡50□
						Pre⊡al	lence Index is ≤ 3.0 ¹
Her□ Stratum (PI⊡t si		<u>)</u>					□□□gical Ada⊡tati⊡ns¹ (Pr□□ide su□□□rting
1. Phalaris arundi			0%	Y	FACW		in Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. Echinochloa cr	rus-galli		0%	Υ	FACW	Pr⊡e	ematic H⊡dr□□□Itic Vegetati⊡n¹ (Ex□ain)
3							
5.		· —				1 Indicat⊡rs □□□□dric	s ⊆il and □etland □⊡dr□□g□must
6.							distur⊡ed ⊡r ⊡lematic.
7.		-					
8.							
9.							
10							
13.							
14			10% = T	⊺⊒tal C⊡er			
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R)					
1. <u>n/a</u>							
2.						p. 11 2	
						Hydrophytic	
4			 <u>-</u>	: T⊡tal C□⊡er		Vegetation Present?	Yes X No
		-				i resent:	. 55 <u>X</u> 140
Remar⊡s: (Include □	□t□ num □ers □ere	⊡r ⊡n a se⊡arate	e s⊡eet.)			•	-
				degraded fresl	n (wet) meadow fringe a	round the pond.	

SOIL T-10 DP-20 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features (inc [es] C□□r (m□ist) C□□r (m□ist) L □c² **Texture** Remar⊡s 100% 0-4 10YR 2/1 si cl loam 10YR 2/1 90% 10YR 5/6 10% М si cl loam 11-20 10YR 5/2 75% 10YR 5/6 30% М silty clay ² L⊡cati⊡n: PL=P⊡re Lining, M=Matrix T⊡e: C=C □ncentrati □n, D=De □eti □n, RM=Reduced Matrix, CS=C □ered □r C □ated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Sand ☐ Gle ☐ed Matrix (S4) C ast Prairie Red (A16) (LRR.K.L.R) Hist⊡s ☐ (A1) Histic E □ □ed □n (A2) Sand □ Red □x (S5) Dar□Surace (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H⊡dr gen Sulide (A4) L□am □ Muc □ Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am□ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□ (A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) X De leted Bel □ Dar Sur ace (A11) Red x Dar Sur ace (F6) T⊡c□Dar□Sur⊡ce (A12) De leted Dar Surface (F7) Sand

Muc

Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat rs □□□dr□□□tic e egetati n and □etland □□dr□□g□ must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none **Hydric Soil Present?** Yes X No_ De It ☐ (inc ☐es): <u>n/a</u> Remar s: Hydric soil criterion is met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar_Indicat_rs (minimum __t_ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re □uired □c □ec □ all t □at a □□□) Sur ace S I Crac (B6) Drainage Patterns (B10) Sur ace Water (A1) Water-Stained Lea Es (B9) Hig□Water Ta□e (A2) A□uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta⊡e (C2) Saturati⊡n (A3) True A uatic Plants (B14) Cra □is □ Burr □□s (C8) Water Mar Is (B1) H dr gen Sulide Od (C1) Saturati ☐n Visi ☐e ☐n Aerial Imager ☐ (C9) Sediment De□□sits (B2) Oxidi ed Ri seres in Li ing Rets (C3) Stunted □r Stressed Plants (D1) Dri t De □□sits (B3) Presence □□Reduced Ir□n (C4) Ge m r □ic P siti n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir□n De□□sits (B5) Tin Muc□Surace (C7) X Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) S□arsel□Vegetated C□nca□e Sur□ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta le Present l Yes $N \square$ Х De at (inc es): Saturati⊡n Present□ De t (inc es): Wetland Hydrology Present? Yes X (includes ca ∐llar □ Tinge Descri⊡e Rec⊡rded Data (stream gauge, m⊡nit⊡ring □ell, aerial □□t⊡s, □re⊡⊡us ins□ecti⊡ns), i⊡a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide:

Wetland hydrology criterion is met. Visible on most FSA slides and spring aerials.

Remar □s:

Pr⊡ectiSite: Loom	nis Road Parcels				Cit□C□unt□ Milwaukee	Sam⊡ing Date: October 30, 2014
A□□licanti©□ner:	Bear Developme	ent, LLC			State:	WI Sam⊡ing P⊡nt: DP-21 UPL
In⊑estigat⊡r(s):	Heather D. Patti	, PWS & Mike Al-Wathiqu	ui		Secti⊡n, T⊡ns⊡, Range	e: Section 30, T5N R21E
Land⊞rm (⊑illsl⊟e,	terrace, etc.): s	light depression			L⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne	e): slightly concave
SI□□e (□): 0%		Lat: See Figure 2		L⊡ng: See	Figure 2	Datum: See Figure 2
S⊡il Ma □ Unit Name:	:	Morley silt loam 2-6%	6 eroded slopes	(MzdB2), Non-hy	dric WWI	Classificati⊡n: none
Are climatic □□□dr□□	⊑gic c⊑nditi⊑ns ⊑n t⊡	e site t⊡ical ⊞r t⊡s time	□□□ear□		Yes X N□	(i⊡n□, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>*Y</u> S⊡I	N□r H⊡dr□□g□	Nsigni∄ca	ıntl□distur⊑ed□	Are "N⊡rmal Circumstan	nces"
Are Vegetati n	N S⊡I	N □r H □dr □ □g □	N naturall	□ □r□□lematic□	(i⊡needed, ex⊡ain an⊡a	ans⊡ers in Remar⊡s)
SUMMARY OF	EINDINGS	Attach sita man sh	owina compl	ling point loo	otions transports importan	ot footures, etc
SUMMARTOR	FINDINGS /	Attach site map sho			tions, transects, importar	nt features, etc.
H⊡dr□□□tic Vegetati	ti⊡n Present□	Yes		X	Is t⊡e Sam⊡ed Area	
H⊡dric S⊡l Present□		Yes		Х	□it⊡n a Wetland□	YesN□X
Wetland H⊡dr⊡⊡g□F	Present□	Yes **X	N□		I□⊡es, □□ti□nal □etland s	site ID: N/A
Remar⊡s:	*Active corn fiel	d **Some crop stress	observed but it i	is attributed to a v	vetter than normal spring.	
	None of the wet	land criteria have been n	net.			
VECETATION	llaa aaiamtida s	The Hands				
VEGETATION -	- Use scientiuc r	names ⊞r □ants.				Sam⊡ing P⊡nt: DP-21 UPL
Tree Stratum (PI⊡t si	i⊏e:30'P \	A⊡s⊡ute □ C□⊑er	D⊡minant S⊡ecies	Indicat⊡r Status	Dominance Test	Worksheet:
nee oratain (n i s	1EC. 30 K	C LEI	3_edes	Status	Num⊟er □□D⊡mina	ant S⊡ecies
1. <u>n/a</u>					T⊡at Are OBL, FA	
2.						
4					T⊡tal Num⊡er □□□	
5					S⊡ecies Acr⊡ss Al	Ill Strata: 1 (B)
6.	_				Percent □□D□mina	ant S⊑ecies
7.					T⊑at Are OBL, FA	
		=	T⊡tal C□⊡er			<u> </u>
					Prevalence Index	
					OBL s⊡ecies	x 1 = Multi
Sa⊟ingเ\$⊡ru⊟Stratu	um (PI⊑t si⊑e:	15'R)			FACW s⊟ecies	x 2 =
					FAC s⊡ecies	x 3 =
2					FACU s⊡ecies	x 4 =
					UPL s⊡ecies C⊡umn T⊡tals:	x 5 =(A) (B)
					Cullill I Lais.	(A) (B)
					Pre⊡alence	Index BIA = n/a
7.						
		=	T⊡tal C⊡er			getation Indicators:
						⊑id Test ⊞r H⊡dr□□□□tic Vegetati⊡n minance Test is ⊡50□
						□alence Index is ≤ 3.0 ¹
Her□ Stratum (PI⊡t s	si⊑e: 5'R)			M⊡r	r□□□□gical Ada⊡tati⊡ns¹ (Pr□□ide su□□□rting
1. Zea mays		20%	<u> </u>	UPL		ata in Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2. 3.					Pr□	⊡ematic H⊡dr⊡□⊡tic Vegetati⊡n ¹ (Ex⊡ain)
4.						
5.					¹ Indicat⊡rs □□□□d	dric s⊡l and □etland □⊡dr□□g□must
6.					⊑e ⊑resent, unles	ss distur⊡ed ⊡r ⊡r⊟lematic.
7						
8. 9.						
40						
12.						
13						
14		20% =	T⊡tal C□□er			
		2070	i dai Oddi			
W□□d□Vine Stratum	n (Pl⊡tsi⊡e: 30'R	<u> </u>				
1. n/a						
1. <u>II/a</u> 2.	_					
3.					Hydrophytic	
4.					Vegetation	
			= T⊡tal C⊟⊑er		Present?	Yes No <u>X</u>
Remar⊑s: (Include □	□□t□ num □ers □ere	⊡r ⊡n a se⊡arate s⊡eet.)			1	
Hydrophytic vegeta	ation criterion is no	ot met, but corn is stress	sed due to a wet	year.		

SOIL							Sam ling P int: DP-21 UPL	
Profile Description: (Describe to the depth nee	eded to docur	nent the indicato	r or confirm	the absence of	of indicato	ors.)		
De □t □ Matrix			Red □x Fea			,		
inc⊡es) C□□r (m⊡st)		C□□r (m⊡st)		<u>T</u> ⊞e ¹	L □c ²	Texture	Remar⊡s	
0-6 10YR 3/3	100%					si cl loam		
6-12 10YR 3/3	95%	10YR 5/6	5%	С	М	silty clay		
12-15* 10YR 5/3	85%	10YR 5/6	15%	С С	M	silty clay	some gravel present	
		-		_				
	-							
		-						
				_				
T⊡e: C=C⊡ncentrati⊡n, D=De⊡eti⊡n, RM=Redu	ced Matrix, CS	S=C⊡ered ⊡r C⊡a	ted Sand Gra	ins.	² l	L⊑cati⊡n: PL=P⊡re l	Lining, M=Matrix	
lydric Soil Indicators:						Indicators for	Problematic Hydric Soils ³ :	
Hist⊑s⊟ (A1)		Sand⊟Gle⊑ed Ma	trix (S4)				Prairie Red⊡x (A16) (LRR,K,L,R)	
Histic E⊡⊡ed⊡n (A2)		Sand ☐ Gle ☐ed Matrix (S4) Sand ☐ Red ☐x (S5)				Dar⊡Surace (S7) (LRR,K,L)		
Blac□Histic (A3)		Stri⊐ed Matrix (S6)				5 cm muc = ceat cr ceat (S3)(LRR,K,L)		
H⊡dr⊡gen Sultide (A4)		L⊡am□Muc⊞Mir	,				anganese Masses (F12) (LRR,K,L,R)	
Strati⊡ed La⊡ers (A5)	L□am□ Gle □ed Ma	atrix (F2)			Ver□S⊡all□□ Dar□Surace (TF12)			
2 cm Muc□ (A10)		De⊟eted Matrix (I	,			Ot⊡er ([Ex⊡ain in Remar⊡s)	
De leted Bel □ Dar Sur ace (A11)		Red □x Dar □ Sur □	` '					
Tic Dar Surace (A12)		De leted Dar Su	. ,					
Sand□Muc⊡Mineral (S1)		Red □x De □ressi □	ns (F8)					
						3 Indicators	Edveretie a Parataties and Eatland	
							⊡dr□□□∷tic e⊡egetati⊡n and □etland : ⊡e ⊡resent, unless distur⊡ed ⊡r	
						□r□□lematic.	Le deserri, uriless distalled d	
Restrictive Layer (if observed):				1				
T⊞e: hard clay								
De⊡t⊡ (inc⊡es): 15"					Hvd	ric Soil Present?	Yes No X	
					,		<u></u>	
Remar :: Hydric soil criterion is not met.	Could not dig	deeper than 15"	due to hard	dry clay.				
HYDROLOGY								
Made all televille Barrer						0 =		
Wetland Hydrology Indicators:	oo⊟all t⊏ot o					Sec⊔n	dar□Indicat⊡rs (minimum □□t□□re□uired)	
Primar□Indicat⊡rs (minimum □□□ne is re□uired⊡c		,			_		Surāce Sūl Cracūs (B6)	
Surace Water (A1)		Water-Stained Le	. ,				Drainage Patterns (B10)	
Hig Water Ta le (A2)		A⊡uatic Fauna (B	,			-	Dr⊡-Seas⊡n Water Ta⊡e (C2)	
Saturati⊡n (A3) ——Water Mar⊡s (B1)		True A□uatic Plar H⊡dr□gen Sultide	. ,				Cra is Burr s (C8)	
Sediment De Sits (B2)		Oxidi ed Ri	. ,	na R⊟te (C3)		*X	Saturati⊡n Visi⊡e ⊡n Aerial Imager⊡(C9) Stunted ⊡r Stressed Plants (D1)	
Dri∄ De⊟sits (B3)		Presence □□Redu				- <u>*</u> X	Ge m = Ciressed Flants (D1)	
Algal Mat □r Crust (B4)		Recent Ir⊡n Redu					FAC-Neutral Test (D5)	
Ir□n De□sits (B5)		T⊡n Muc□Surac		00)				
 Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7)		Gauge □r Well Da						
S⊑arsel□Vegetated C⊡nca⊑e Sur⊡ace (B8)		Ot⊡er (Ex⊟ain in						
		,						
Field Observations:								
Sur⊡ace Water Present□ Yes	N□ X	De ⊑t □ (inc ⊑es):						
Water Ta □e Present□ Yes	N□ X	De⊡t⊟ (inc⊑es):		_	1			
Saturati⊡n Present□ Yes	N□ X	De⊡t⊟ (inc⊡es):		_	1	Wetla	and Hydrology Present? Yes No	
(includes ca⊡illar⊡ <u>r</u> inge)		, ,		_				
Descri⊡e Rec⊡rded Data (stream gauge, m⊡nit⊡rir	ng □ell. aerial i	□□□t⊡s. ⊡re⊓i⊓us ir	ns⊒ecti⊒ns). i≀	⊑a⊑aila ⊟e:				
USGS topo map (Figure 1), 1-foot contour map	-				n 2000. 20	005, 2010, and 201	3 (Figures 4A-D).	
WWI map (Figure 5), NOAA's AHPS map (Figu					, =	,,	, , , , , , , , , , , , , , , , , , , ,	
Remar :: Wetland hydrology criterion is n	ot met. *The	data point is loca	ted in a sligi	ht topographic	depressi	ion where corn is s	stressed, but the soils are	
not hydric. The crop stress is at		-	_		-			
quality of slides.			-				-	
• •								

Pr⊡ectiSite: Loom	is Road Parcels				Cit⊡C□unt□ Milwaukee	Sam⊒ing Date: Oct	ober 30, 2014
A□□licantiO□ner:	Bear Developm	ent, LLC			State:	WI Sam⊡	ing P⊡nt: T-11 DP-22 UPL
In⊑estigat⊡r(s):	Heather D. Patt	i, PWS & Mike Al-Wathiqu	ıi		Secti⊡n, T⊡ns⊡, Rang	ge: Section 30, T5N R2	21E
Land⊡rm (⊡llsl⊡e, t	errace, etc.):	backslope		L	⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡n	e): convex	
SI□□e (□): <u>5%</u>		Lat: See Figure 2		L⊡ng: See F	igure 2	Datum: See	Figure 2
S⊡l Ma□ Unit Name:		Blount silt loam, 1-	3% slopes (BIA)	, Hydric Inclusions	WWI	Classi:i̇̀cati⊡n:	none
Are climatic □□□dr□□	gic c⊡nditi⊡ns ⊡n t	⊑e site t⊡ical ⊞r t⊡s time i	⊒⊟ear⊟		Yes X N□	(i⊡n⊡, ex⊡ain in Rer	mar⊡s)
Are Vegetati⊡n	<u>*Y</u> S⊡I	N □r H⊡dr□□g□	N signitican	tl□distur□ed□	Are "N⊡rmal Circumsta	nces" ⊡resent□	YesN□_X
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H □dr □ □g □	N naturall□	□r□□lematic□	(i⊡needed, ex⊒ain an□	ans□ers in Remar⊡s)	
CUMMARY OF	FINIDINGS	Attack site were she					
SUMMARY OF	FINDINGS	Attach site map sho			ons, transects, importa	nt reatures, etc.	
H⊡dr⊡⊡∷tic Vegetati	□n Present□	Yes		Х	Is t⊡e Sam⊡ed Area		
H⊡dric S⊡l Present□		Yes		Х	□it⊡in a Wetland□	Yes	N□ X
Wetland H⊡dr⊒⊡g□P	resent□	Yes	N□	Х	l⊡es, □⊑ti□nal □etland	site ID: N/A	١
Remar⊑s:	*Active corn fie	ld - corn is healthy, no cr	op stress		•		
		tland criteria have been m	-				
VEGETATION -	Use scienti∄c	names				Sam∃ing	P⊡int: T-11 DP-22 UPL
		A⊡s⊡ute □	D⊡minant	Indicat⊡r	Dominance Test	Worksheet:	
Tree Stratum (PI⊡t si	⊑e: 30' R	C □ er	S⊡ecies	Status	Num⊡er □□D⊡min		
1. <i>n/a</i>					T⊑at Are OBL, FA		0 (A)
2.					. Edit tio OBE, 17		<u>-</u>
3.					T⊡tal Num⊡er □⊡	D⊑minant	
4.					S⊡ecies Acr⊡ss A	dl Strata:	1 (B)
5					Danier COD Carlo		
7					Percent ⊡D⊡min T⊡at Are OBL, FA		0 % (A⊞)
'` 	_	=	T⊡tal C⊡⊑er		TEACTIO OBE, 17		(AE)
					Prevalence Inde	x Worksheet:	
						□ C⊡er □□	Multi □ □ □□
Colling Court Ctrotus	m /DI⊏tai⊏a.	4EID \			OBL s⊡ecies		= <u></u>
Sa ling S ru Stratu 1. <i>n/a</i>	III (PILL SILE.	15'R)			FACW s⊡ecies FAC s⊡ecies	x 2 : x 3 :	
2.					FACU s⊒ecies	x4	
3.					UPL s⊡ecies		= <u> </u>
					C⊒umn T⊒tals:	(A)	(B)
					Pro⊡nlance	Index B⊅ =	n/o
7					FieLalence	index bix -	n/a
		=	T⊡tal C□⊡er		Hydrophytic Veg	getation Indicators:	
						⊡d Test ⊞r H⊡dr⊒⊒⊒tic Ve	getati⊡n
						minance Test is □50□	
Her⊟ Stratum (PI⊑t si	⊑e: 5'R	,				e⊑alence Index is ≤ 3.0 ¹ īr⊒⊒⊒⊒gical Ada⊒tati⊡ns ¹ (P	r⊡ide su⊟⊟rting
1. Zea mays	E. JK	90%	Υ	UPL		lata in Remar⊡s ⊡r ⊡n se⊡ar	•
2.						⊒ematic H⊡dr⊒⊒⊒tic Vege	
3.							
4. 5.					1 Indicators COO	dric s⊡l and □etland □⊡dr⊡l	□ v □ mu ust
6.						ess distur⊡ed ⊡r ⊡r⊟⊟ematic	
7.							•
8.							
11. 12.							
13.							
14.							
		90% =	T⊡tal C⊡⊑er				
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R)					
1. <i>n/a</i>							
2					11		
3. 4					Hydrophytic Vegetation		
*-			= T⊡tal C⊡er		Present?	Yes	No X
D = " · · ·							
,		☐r ☐n a se⊡arate s⊡eet.)	hearved				
mydropnytic vegeta	tion criterion is n	ot met. No crop stress ol	userveu.				

SOIL T-11 DP-22 UPL Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features C□□r (m⊡st) (inc⊑es) C□□r (m□st) L □c² **Texture** Remar⊡s 10YR 3/3 0-7 100% si cl loam silty clay 7-18 10YR 3/4 95% 10YR 5/4 10% ² L⊡cati⊡n: PL=<u>P⊡re Lining, M=Matrix</u> T⊡e: C=C ncentrati n, D=De leti n, RM=Reduced Matrix, CS=C need r C lated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red□x (A16) (LRR,K,L,R) Sand □ Gle □ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed n (A2) Sand □ Red □x (S5) Dar□Surace (S7) (LRR,K,L) Blac□Histic (A3) Stri □□ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H⊡dr⊡gen Suliide (A4) L am Muc Mineral (F1) Ir⊡n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am□ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De leted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red x Dar Sur ace (F6) T ic Dar Sur ace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat rs □□□dr□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none De t (inc es): <u>n/a</u> **Hydric Soil Present?** No X Yes Remar⊑s: Hydric soil criterion is not met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar_Indicat_rs (minimum __t_ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re □uired□c□ec□all t□at a □□□) Sur ace S I Crac (B6) Water-Stained Lea es (B9) Drainage Patterns (B10) Sur ace Water (A1) Hig □ Water Ta □e (A2) A □uatic Fauna (B13) Dr⊡-Seas n Water Ta le (C2) Saturati n (A3) True A Luatic Plants (B14) Cra is Burr s (C8) Water Mar (B1) H⊡dr gen Suliide Od (C1) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Sediment De □sits (B2) Oxidi ed R = s = eres = Li ing R = ts (C3) Stunted □r Stressed Plants (D1) Dri t De □sits (B3) Presence □□Reduced Ir□n (C4) Ge□m□r□□ic P□siti□n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) T in Muc Sur ace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge Ir Well Data (D9) Ot⊡er (Ex⊡ain in Remar⊡s) S arsel Vegetated C nca e Sur ace (B8) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta ☐e Present ☐ Yes NΠ Х De t (inc es): Saturati⊡n Present□ Yes De t (inc es): Wetland Hydrology Present? Yes No X (includes ca⊡illar□ īinge Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊡s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊡a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remar s: Wetland hydrology criterion is not met. No indication of consistent wetness on FSA crop slides or aerials.

Nestigat T(s) Heather D. Patti, PWS & Mike Al-Wathiqui Secti T T Sid Range Section 30, T5N R21E	Pr⊡ectiSite: Loomis Road Parcels				Cit⊡C□unt⊡ <u>Milwaukee</u>	Sam⊡ing Date: October 30, 2014
Linch Linc	A□□icantio□ner: Bear Developm	ient, LLC			State: V	NI Sam⊡ing P⊡nt: T-11 DP-23 WTD
Size	In estigat (s): Heather D. Patt	ii, PWS & Mike Al-Wathiqu	ui			Section 30, T5N R21E
State Name	Land⊡rm (⊡llsl⊡e, terrace, etc.):	wetland depression			L⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	concave
Very	SI⊡e (□): 0%	Lat: See Figure 2		L⊡ng: Se e	Figure 2	Datum: See Figure 2
Note March Note	S⊡l Ma□Unit Name:	Ashkum silty cla	y loam 0-2% sl	opes (AsA), Hydri	c WWI Clas	ssiticati⊡n: none
Summary OF FINDINGS	Are climatic □□□dr□□gic c□nditi□ns □n t	ı⊡e site t⊡ical ⊞r t⊡s time	□□□ear□		Yes <u>X</u> N□	(i⊡n⊟, ex⊟ain in Remar⊡s)
Summary OF FINDINGS Attach site map showing sampling point locations, transects, important features, etc.	Are Vegetati⊡n <u>*Y</u> S⊡l	_N_ □r H □dr □ □g □	N_ significa	antl□distur⊡ed□	Are "N⊡rmal Circumstances	s" ⊡resent□ Yes N□ <u>X</u>
Minimal Registation Present Yes	Are Vegetati⊡n N S⊡l	N □r H □dr □ □g □	**Y naturall	□ □r□□lematic□	(i⊡needed, ex⊡ain an□ansi	⊒ers in Remar⊡s)
Michael Mich						
Helic S.J. Personal Ves X N	SUMMARY OF FINDINGS	Attach site map she	owing samp	ling point loca	ations, transects, important f	eatures, etc.
Highest A Present Yes X N	H⊑dr⊒⊒⊒tic Vegetati⊑n Present□	Yes	N□	Х	ls t⊡e Sam⊡ed Area	
Westerful (Art T.g. Present)	H⊑dric S⊡l Present□		N□		□it⊡n a Wetland□	Yes X N□
VEGETATION - Use Scientific names II - I	Wetland H⊡dr⊡⊡g□Present□	Yes X	- N□		I⊟es, ⊟ti⊑nal ⊟etland site	
VEGETATION - Use scienti ic names IT lants.					<u> </u>	
Top Stratum Plus Stratum Plu	Remar_s: *Farmed wetiai	id ^^Hydrology is seaso	onai			
Top Stratum (Pit size: 30'R						
Topic Stratum (Pitt size 30'R	VEGETATION - Use scientific	names ⊞r ⊟ants				Samiling Plint: T-11 DP-23 WTD
1	VEGETATION COC SOICHER		D⊡minant	Indicat⊏r		Gameling Feline.
	Tree Stratum (PI⊡t si⊡e: 30'R				Dominance Test Wo	rksheet:
Tital Number Colorinant Section Act and Strate Section Act and St	1100 Stratam (1 12 012). 30 11		<u>C_ccicc</u>	Otatus	Num⊡er □□D⊡minant	S⊒ecies
Table Number	1. Ulmus americana	5%	Υ	FACW	T⊡at Are OBL, FACW	, □ FAC: <u>1</u> (A)
Simple Admiss All Stratus 3 (B)						·
Percent IDD:minant Sizedies Tail Are OBL, FACW, II FAC: 33% (A.B.)	3					
Total Are OBL, FACW, Direct 33% (AB)	4				SLecies Acruss All St	rata: <u>3</u> (B)
Total Are OBL, FACW, Direct 33% (AB)	3. 6				Percent □□D□minant 9	S⊟ecies
Saling Struth (Pit site: 15R)	7.					
Sading Struthm (Pit site: 15R)		5% =	T⊡tal C⊡er		,	
Saling Strut Stratum (Pit size: 15'R) OBL strates X z EACW Sizeles X z EACW						
Sa ling Suru Stratum (Pit size: 15R)						
1. 1/da	0 =:	45ID.)				
FACU stacles		15'R)				
3						
4						
Preclaence Index BTA = n/a						
Fre_Blance Index B/B = N/B						
Tital Citer Hydrophytic Vegetation Indicators: Raid Test in Hidring to Vegetation Diminance Test is 1500 Precialence Indicators is 3.01 Precialence Indic					Pre⊡alence Inde	ex B/A = <u>n/a</u>
Radd Test in Hiddlic Vegetation Dominance Test is 1500 Precialence londer is \$ 3.0" P		_				
Her_Stratum (P □ size: 5'R)		=	: T⊡tal C⊡er			
Precidence Index is ≤ 3.0						
HerrOstratum (Plot size: 5'R)						
1. Setaria faberi	Her□Stratum (Pl⊡t si⊡e: 5'R)				
3.	•	5%	Υ	FACU		
4.	2. Hibiscus trinonium	5%	Υ	UPL	<u>X</u> Pr⊡len	natic H⊡dr□□□⊡tic Vegetati⊡n¹ (Ex⊡ain)
1 Indicatins conditions of and cetland condition must be distribled in the condition of		_				
6.					1	
7.						
8. 9. 10. 10. 11. 12. 13. 14. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16					Le ⊟esent, uniess d	
9.						
10. 11. 12. 13. 14. 10% = Tital Cier Hydrophytic Vegetation Present? Yes No *X *X *X *X *X *X *X *X						
11.						
12.						
14						
10%						
Mario Vine Stratum (Plat size: 30'R)	14	400/	Total Coper			
1. n/a 2. 3.		1076 -	· I Llai C LLei			
1. n/a 2. 3.						
1. n/a 2. 3.						
2	W□⊡d□Vine Stratum (PI⊡t si⊡e: 30'R)				
2						
3						
4	2	_			11 11 12	
= T⊡tal C⊡er Present? Yes No *X	3	- —				
			= T⊡tal C□□er			Yes No *X
Remarūs: (Include ::::ti: numūers ::ere ::r ::n a se:arate s::eet.)						<u>.</u>
Remarūs: (Include :::::ti: numūers ::ere ::r ::n a se::arate s::eet.)						
	Remar⊑s: (Include □□□t□ num⊑ers ⊑ere	: □r □n a se⊡arate s⊡eet.)				

 SOIL
 Sam ling P lint:
 T-11 DP-23 WTD

	r (m⊡st) □	C□□r (m□st) □	<u>T⊞e¹</u>	L⊡c ²	Texture	Remar⊡s
0-12 10	/R 3/1 90%	10YR 3/4 10%	С	M	si cl loam	
12-20 10	/R 5/2 60%	10YR 5/6 40%	С	М	silty clay	mixing - some sand pockets
						-
						-
			_			
			_			
⊤a: C=C⊏ncentrati⊏n, D=De⊟e	ati⊏n PM-Peduced Matrix	CS=C⊡ered ⊡r C⊡ated Sand Gra	ne	21	_⊑cati⊡n: PL=P⊡re L	ining M-Matrix
Te. C-Clicentiatili, D-Delle	eti II, Rivi-Reduced iviatilix,	CS-C Lereu Li C Lateu Sanu Gra	115.		cali_li. FL=F_le_L	ining, w-watix
dric Soil Indicators:					Indicators for F	Problematic Hydric Soils ³ :
Hist⊡s⊟ (A1)		Sand□Gle⊡ed Matrix (S4)			C⊡ast F	Prairie Red⊡x (A16) (LRR,K,L,R)
Histic E⊡⊡ed⊡n (A2)		Sand□Red⊡x (S5)			Dar⊡Sı	urīace (S7) (LRR,K,L)
Blac□Histic (A3)		Stri □□ed Matrix (S6)				uc⊡ ⊑eat ⊡r ⊡eat (S3) (LRR,K,L)
H⊑dr⊑gen Sulūde (A4)		L⊡am□Muc⊡ Mineral (F1)				inganese Masses (F12)(LRR,K,L,R)
Stratified La Ters (A5)		L□am□Gle□ed Matrix (F2)				□all□□ Dar□Sur□ace (TF12)
2 cm Muc (A10)	- (0.4.4)	De ⊟eted Matrix (F3)			Ot⊡er (l	Ex⊡ain in Remar⊡s)
De □eted Bel □□ Dar □ Sur ace	e (A11) X	(- /				
T⊡c□Dar□Sur⊡ce (A12)		De leted Dar Sur ace (F7)				
Sand□Muc□ Mineral (S1)		Red⊡x De⊡ressi⊡ns (F8)				
					31-4:40 000	
						dr□□□tic e egetati□n and □etland
					□r□□lematic.	□e □resent, unless distur□ed □r
					Li Liemanc.	
antrintiva I avar (if abanyad).						
estrictive Layer (if observed):						
T⊡e: none				Hvdi	ric Soil Present?	Yes X No
				Hydi	ric Soil Present?	Yes X No
T⊡e: none De⊡t⊡ (inc⊡es): n/a	on is met.			Hydi	ric Soil Present?	Yes X No
T⊡e: none	on is met.			Hydi	ric Soil Present?	Yes X No
T⊡e: none De⊡t⊡ (inc⊡es): n/a	on is met.			Hydi	ric Soil Present?	Yes <u>X</u> No
T⊡e: none De⊡t□ (inc⊡es): n/a	on is met.			Hydi	ric Soil Present?	Yes <u>X</u> No
T⊡e: none De⊡t□(inc⊡es): n/a	on is met.			Hydi	ric Soil Present?	Yes <u>X</u> No
T⊡e: <u>none</u> De⊡t⊡(inc⊡es): <u>n/a</u> emar⊡s: Hydric soil criterie	on is met.			Hydı	ric Soil Present?	Yes <u>X</u> No
Time: none Delti (incles): n/a emaris: Hydric soil criterio YDROLOGY	on is met.			Hydi		
Time: none Delti (incles): n/a emaris: Hydric soil criterie YDROLOGY etland Hydrology Indicators:				Hydi	Sec⊡nd	ar⊡Indicat⊡rs (minimum ⊡t⊡ re⊡uired)
T⊡e: <u>none</u> De⊡t□ (inc⊡es): <u>n/a</u>		aш:)		Hydr		
Time: none Delti (incles): n/a emaris: Hydric soil criterion IYDROLOGY (etland Hydrology Indicators:		a □□□ Water-Stained Lea □es (B9)		Hydi	Sec⊡nd	ar⊡Indicat⊡rs (minimum ⊡t⊡ re⊡uired)
Time: none Delti (incles): n/a emaris: Hydric soil criteria YDROLOGY etland Hydrology Indicators: imari Indicatirs (minimum inclinations)				Hydi	Sec⊡nd	ar⊡Indicat⊡rs (minimum ⊡t□□ re⊡uired) Surīace S⊡l Crac⊡s (B6)
Time: none Delti (incles): n/a emaris: Hydric soil criterio YDROLOGY etland Hydrology Indicators: imari Indicatirs (minimum incless) Surface Water (A1)		Water-Stained Lea es (B9)		Hydi	Sec⊡nd	ar□Indicat⊡rs (minimum □t□□re□uired) Surīace S⊡l Crac⊡s (B6) Drainage Patterns (B10)
Time: none Deiti (incles): n/a emaris: Hydric soil criterio YDROLOGY fetland Hydrology Indicators: rimar Indicatirs (minimum mir Suriace Water (A1) Hig Water Tale (A2)		Water-Stained Lea⊡es (B9)A⊡uatic Fauna (B13)		Hydi	Sec⊡nd	lar□Indicat⊡rs (minimum □t□□re□uired)Surſace S⊡l Crac⊡s (B6)Drainage Patterns (B10)Dr⊕Seas⊡n Water Ta⊡e (C2)
Time: none Delti (incles): n/a emaris: Hydric soil criterio YDROLOGY etland Hydrology Indicators: imar indicatirs (minimum imar indicatirs (min		Water-Stained Lea ⊡es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14)	ng R⊡ts (C3)	Hydi	Sec⊡nd X	ar□Indicat⊡rs (minimum □t□□ re□uired) Surīace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡Seas⊡n Water Ta⊡e (C2) Cra⊡is□Burr⊡s (C8)
Time: none Delti (incles): n/a emaris: Hydric soil criterio YDROLOGY etland Hydrology Indicators: imar Indicatirs (minimum imariance Water (A1) Hig Water Taile (A2) Saturation (A3) Water Maris (B1)		Water-Stained Lea⊡es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14) H□dr⊡gen Sulûde Od □r (C1)		Hydi	Sec⊡nd X	lar□Indicat⊡rs (minimum □t□□re□uired) Surſace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡Seas⊡n Water Ta⊡e (C2) Cra⊡is□Burr⊡s (C8) Saturati⊡n Visi⊡e ⊡n Aerial Imager□(C9)
Time: none Delti(incles): n/a emarts: Hydric soil criterio YDROLOGY etland Hydrology Indicators: imarilindicatirs (minimum image) Surface Water (A1) Higi Water Taile (A2) Saturati (A3) Water Marts (B1) Sediment Delimists (B2)		Water-Stained Lea es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14) H⊡dr⊡gen Sultide Od⊡r (C1) Oxidi⊡ed R⊡⊡s□eres ⊡n Li∐)	Hydi	Sec⊡nd X	lar□Indicat⊡rs (minimum □tt□□re⊡uired) Surïace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡s□ Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1)
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Time: none Delti (incles): n/a emarls: Hydric soil criterie YDROLOGY etland Hydrology Indicators: imar Indicatirs (minimum included inc	ne is re_uired_c_ec_all t_at X 	Water-Stained Lea⊡es (B9) A⊡atic Fauna (B13) True A⊡atic Plants (B14) H⊡dr⊡gen Suliide Od⊡r (C1) Oxidi⊡ed R⊡⊡s⊡eres ⊡ Li⊡ Presence ⊡Reduced Ir⊡n (C4 Recent Ir⊡n Reducti⊡n in Tilled)	Hydi	Sec⊡nd X	lar□Indicat⊡rs (minimum □t□□re□uired) Surīāce S⊡l Cracြs (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊟e (C2) Cra⊡is□Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P⊡sit□n (D2)
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Time: none Delinices): n/a PMARIS: Hydric soil criteric PMARIS: (A1) Highwater Tale (A2) Saturatin (A3) Water Maris (B1) Sediment Delisits (B2) Drift Delisits (B3) Algal Mathrous: (B4) Inn Delisits (B5) Inundatin Viside in Aerial In Searsel Vegetated Cincale PMARIS: Hydric soil criteric PMAR	mager (B7) Surface (B8) Tell is recuired ccec all toat and a second control of the control of t	Water-Stained Lea ☐es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14) H□dr□gen Sulfide Od□r (C1) Oxidi□ed R□□□□s□□rens □n Li□ir Presence □□Reduced Ir□n (C4 Recent Ir□n Reducti□n in Tilled T□in Muc□Suriace (C7) Gauge □ Well Data (D9) Ot□er (Ex□ain in Remar□s) De□□□ (inc□es): De□□□ (inc□es):)	Hydi	Sec⊡nd X	lar□Indicat⊡rs (minimum □t□□re□uired) Surīāce S⊡l Cracြs (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊟e (C2) Cra⊡is□Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P⊡sit□n (D2)
Time: none Delti(incles): n/a emarls: Hydric soil criteric YDROLOGY etland Hydrology Indicators: imarlindicatirs (minimum min Surlace Water (A1) Higlwater Talle (A2) Saturatiln (A3) Water Marls (B1) Sediment Dellsits (B2) Drift Dellsits (B3) Algal Matir Crust (B4) Irin Dellsits (B5) Inundatiln Visille in Aerial In (Slarsellegetated Cincale eld Observations: urlace Water Presentl ater Talle Presentl ater Talle Presentl ater Talle Presentl	mager (B7) Surrace (B8) Yes No X Yes No X Yes No X	Water-Stained Lea ☐es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14) H□dr□gen Sulfide Od□r (C1) Oxidi□ed R□□□□s□□rens □n Li□ir Presence □□Reduced Ir□n (C4 Recent Ir□n Reducti□n in Tilled T□in Muc□Suriace (C7) Gauge □ Well Data (D9) Ot□er (Ex□ain in Remar□s) De□□□ (inc□es): De□□□ (inc□es):)	Hydi	Sec⊡nd X	ar□Indicat⊡rs (minimum □t□□re□uired) Surſace S⊡l Cracြs (B6) Drainage Patterns (B10) Dr□Seas□n Water Ta□e (C2) Cra□is□Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □ Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)
Time: none Deiti (incles): n/a emaris: Hydric soil criterion Hydric soil criterion Etland Hydrology Indicators: Imari Indicatirs (minimum includes a includes caillari inde) Mater Maris (B1) Sediment Deitsits (B2) Drift Deitsits (B3) Algal Matir Crust (B4) Irin Deitsits (B5) Inundatiin Visite in Aerial Includes caillari inge Algal Concate Includes caillari inge	mager (B7) Surface (B8) Yes No X Yes No X Yes No X Yes No X	Water-Stained Lea ☐es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14) H□dr□gen Sulfide Od□r (C1) Oxidi□ed R□□□s□□eres □r Li□ir Presence □□Reduced Ir□n (C4 Recent Ir□n Reducti□n in Tilled T□in Muc□Surīace (C7) Gauge □r Well Data (D9) Ot□er (Ex□ain in Remar□s) De□□ (inc□es): De□□ (inc□es):	S is (C6)	Hydi	Sec⊡nd X	ar□Indicat⊡rs (minimum □t□□re□uired) Surſace S⊡l Cracြs (B6) Drainage Patterns (B10) Dr□Seas□n Water Ta□e (C2) Cra□is□Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □ Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)
Time: none Delti (incles): n/a emarls: Hydric soil criteric YDROLOGY etland Hydrology Indicators: imar Indicatirs (minimum inclession (A3) Water Marls (B1) Sediment Delisits (B2) Drift Delisits (B3) Algal Mat inclusits (B5) Inundatiin Visite in Aerial Includes calillar iringe, escrile Reclired Data (stream includes calillar iringe)	mager (B7) Sur ace (B8) Yes N X	Water-Stained Lea Es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14) H□dr□gen Sulfide Od□r (C1) Oxidi□ed R□□□□□□eres □n Lifti Presence □□□Reduced Ir□n (C4 Recent Ir□n Reducti□n in Tilled T□in Muc□□□urace (C7) Gauge □r Well Data (D9) Ot□er (Ex□ain in Remar□s) De□□□ (inc□es): De□□□ (inc□es): De□□□ (inc□es):	Sūls (C6)	-	Sec⊡nd X X X X X Wetlan	lar Indicat rs (minimum re uired) Sur ace S re Crac (B6) Drainage Patterns (B10) Dr Seas water Ta e (C2) Cra se Burr (C8) Saturati visi e Aerial Imager (C9) Stunted r Stressed Plants (D1) Ge re Pisit (D2) FAC-Neutral Test (D5)
TIE: none Delt (incles): n/a Hydric soil criterion Hydric soil criterion Hydric soil criterion Figure 1	mager (B7) Yes N X	Water-Stained Lea ☐es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14) H□dr□gen Sulfide Od□r (C1) Oxidi□ed R□□□s□□eres □r Li□ir Presence □□Reduced Ir□n (C4 Recent Ir□n Reducti□n in Tilled T□in Muc□Surīace (C7) Gauge □r Well Data (D9) Ot□er (Ex□ain in Remar□s) De□□ (inc□es): De□□ (inc□es):	S ils (C6)	-	Sec⊡nd X X X X X Wetlan	lar Indicat rs (minimum re uired) Sur ace S re Crac (B6) Drainage Patterns (B10) Dr Seas water Ta e (C2) Cra se Burr (C8) Saturati visi e Aerial Imager (C9) Stunted r Stressed Plants (D1) Ge re Pisit (D2) FAC-Neutral Test (D5)
TIDE: none Dett (incles): n/a Maris: Hydric soil criteria Mydric soil criteria Mydri	mager (B7) Yes N X	Water-Stained Lea es (B9) A□uatic Fauna (B13) True A□uatic Plants (B14) H□dr□gen Sulfide Od□r (C1) Oxidi ed R□□□□□eres □ Li□□ Presence □□Reduced Ir□ (C4 Recent Ir□ Reducti in Tilled T□n Muc□Surīace (C7) Gauge □ Well Data (D9) Ot□er (Ex□ain in Remar□s) De□□□ (inc□es): De□□□ (inc□es): De□□□ (inc□es):	S ils (C6)	-	Sec⊡nd X X X X X Wetlan	lar Indicat rs (minimum re uired) Sur ace S re Crac (B6) Drainage Patterns (B10) Dr Seas water Ta e (C2) Cra se Burr (C8) Saturati visi e Aerial Imager (C9) Stunted r Stressed Plants (D1) Ge re Pisit (D2) FAC-Neutral Test (D5)

Pr⊒ectiSite: Loom	nis Road Parcels				Cit□C□unt□: Milwaukee	S	Sam⊒ing Date: October 30,	, 2014
A□□icantiO□ner:	Bear Developm	ent, LLC			State:	WI	Sam⊒ing P⊡n	it: T-12 DP-24 UPL
In⊑estigat⊡r(s):	Heather D. Patt	i, PWS & Mike Al-Wathiqu	ıi		Secti⊡n, T⊡□ns⊡□, R	ange:	Section 30, T5N R21E	
Land⊡rm (⊡llsl⊡e, t	terrace, etc.):	backslope		LB	cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, r	n⊡ne): c	convex	
SI□□e (□): 10%		Lat: See Figure 2		L⊡ng: See Fi g	gure 2		Datum: See Figure	2
S⊡l Ma Unit Name:		Blount silt loam, 1-	3% slopes (BIA)	, Hydric Inclusions	W	/WI Classi ic	cati⊡n: n	none
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t	⊑e site t⊡ical ⊞r t⊡s time i	⊒⊟ear⊟		Yes X N□	((i⊡n□, ex⊡ain in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊟l	N □rH⊡dr□□g□	N signitican	ıtl□distur⊑ed□	Are "N⊡rmal Circum	ıstances" ⊡re	resent□ Ye	sN□_X
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H □dr □ □g □	N naturall□	□r□□lematic□	(i⊡needed, ex⊡ain a	an□ans□ers	s in Remar⊡s)	
CUMMARY OF	FINDINGS	Attack site were ske						
SUMMARY OF	FINDINGS	Attach site map sho			ons, transects, impor	tant reat	ures, etc.	
H⊡dr⊡⊡⊒tic Vegetati	i⊡n Present□	Yes		Х	ls t⊡e Sam⊡ed Area	a		
H⊡dric S⊡l Present□		Yes	N□ _	Х	□it⊡in a Wetland□		Yes	N□ X
Wetland H⊡dr⊒⊡g□P	Present□	Yes	N□ _	X	l⊡es, ⊡ti⊡nal □etla	and site ID:	N/A	
Remar⊑s:	*Active corn fie	ld - corn is healthy, no cr	op stress		<u>.</u>			
		tland criteria have been m	-	and lack of crop st	ress indicate upland.			
VEGETATION -	Use scienti∄c	names ⊞r ⊒ants.					Sam⊒ing P⊑int:	T-12 DP-24 UPL
		A⊡s⊒ute □	D⊡minant	Indicat⊡r	Dominance T	est Worksh	heet:	
Tree Stratum (PI⊡t si	⊡e: 30'R) C⊡er	S⊡ecies	Status				
1. <i>n/a</i>					Num⊡er □⊡D□ T⊑at Are OBL			(A)
2.					I Lat Ale Obl	, I ACW, 🗆 i	1 AC	- ^(^)
3.					T⊡tal Num⊡er	□□D□minan	nt	
					S⊡ecies Acr⊡s	ss All Strata:	: <u>1</u>	(B)
5								
6					Percent □□D□ T□at Are OBL			(AB)
'· 			T⊡tal C□⊡er		I Lat Ale Obl	, I ACW, 🗆 I	1 AC	_(AB)
					Prevalence In	ndex Works	sheet:	
					T	tal □ C⊡er	· 🖂 Mult	<u>ido oo </u>
L		,			OBL s⊡ecies	_	x 1 =	
Sa ling S ru Stratu 1. <i>n/a</i>		15'R)			FACW s⊡ecies FAC s⊡ecies	s <u> </u>	x 2 = x 3 =	
1. <u>11/a</u> 2.					FAC siecies	_	x 4 =	
					UPL s⊒ecies	_	x 5 =	
					C⊡umn T⊡tals	s:	(A)	(B)
6					Pre⊡aler	nce Index B	3 A = <u>n/a</u>	
/·			T⊡tal C□⊡er		Hydrophytic	Vegetation	Indicators:	
						-	: ⊞r H⊡dr□□□□tic Vegetati⊡n	
							e Test is □50□	
							e Index is ≤ 3.0 ¹	
Her□ Stratum (Pl⊡t si 1. Zea mays	i⊡e: 5'R	<u>)</u> 90%	Υ	UPL	<u> </u>		ical Ada⊡tati⊡ns ¹ (Pr⊡ide s emar⊡s ⊡r ⊡n se⊡arate s⊡ee	•
2. <u>Zea mays</u>		30 /6	'	OFL			c H⊡dr⊡□⊡tic Vegetati⊡n ¹ (I	
3.								
4.								
5.							and □etland □⊡dr□l□g□mus	.t
6	_				⊑e ⊑resent, ι	ınless distur	r⊡ed ⊡r ⊡⊓ematic.	
8.								
40								
12.	_							
13. 14.	_			-				
14.		90% =	T⊡tal C⊡⊑er	-				
	/B/- :							
W□□d□Vine Stratum	(MLI SILE: 30'R	<u> </u>						
1. <i>n/a</i>								
2.								
3.					Hydrophytic			
4			= Tital Car-		Vegetation		Van	- V
			= T⊡tal C□⊡er		Present?		YesN	o_X_
Remar⊡s: (Include □	⊒t⊒ num ⊑ers ⊑ere	□r □n a se⊑arate s⊑eet.)			<u> </u>			
Hydrophytic vegeta	ition criterion is n	ot met. No crop stress ol	bserved.					

SOIL T-12 DP-24 UPL Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features C□□r (m⊡st) (inc⊑es) C□□r (m ist) L □c² **Texture** Remar⊡s 10YR 3/3 0-3 100% si cl loam 3-16 10YR 3/3 90% 7.5YR 4/6 10% М si cl loam 16-20 10YR 5/3 85% 10YR 5/6 15% М silty clay ² L⊡cati⊡n: PL=<u>P⊡re Lining, M=Matrix</u> T⊡e: C=C ncentrati n, D=De leti n, RM=Reduced Matrix, CS=C need r C lated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red□x (A16) (LRR,K,L,R) Sand □ Gle □ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed n (A2) Sand □ Red □x (S5) Dar□Surace (S7) (LRR,K,L) Blac□Histic (A3) Stri □□ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H⊡dr⊡gen Suliide (A4) L am Muc Mineral (F1) Ir⊡n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am□ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc□(A10) De leted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red x Dar Sur ace (F6) T ic Dar Sur ace (A12) De leted Dar Sur ace (F7) Sand ☐ Muc ☐ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat rs □□□dr□□□tic e egetati n and □etland □□dr□l□g□must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none De t (inc es): <u>n/a</u> **Hydric Soil Present?** No X Yes Remar⊡s: Hydric soil criterion is not met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar_Indicat_rs (minimum __t_ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re □uired□c□ec□all t□at a □□□) Sur ace S I Crac (B6) Water-Stained Lea es (B9) Drainage Patterns (B10) Sur ace Water (A1) Hig □ Water Ta □e (A2) A □uatic Fauna (B13) Dr⊡-Seas n Water Ta le (C2) Saturati n (A3) True A Luatic Plants (B14) Cra is Burr s (C8) Water Mar (B1) H⊡dr gen Suliide Od (C1) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Sediment De □sits (B2) Oxidi ed R = s = eres = Li ing R = ts (C3) Stunted □r Stressed Plants (D1) Dri t De □sits (B3) Presence □□Reduced Ir□n (C4) Ge□m□r□□ic P□siti□n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir n De □sits (B5) T in Muc Sur ace (C7) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge Ir Well Data (D9) Ot⊡er (Ex⊡ain in Remar⊡s) S arsel Vegetated C nca e Sur ace (B8) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta ☐e Present ☐ Yes NΠ Х De at (inc es): Saturati⊡n Present□ Yes De □t□ (inc □es): Wetland Hydrology Present? Yes No X (includes ca⊡illar□ īinge Descri⊡e Rec⊡rded Data (stream gauge, m⊑nit⊡ring ⊡ell, aerial ⊡⊡t⊡s, ⊡re⊡⊡us ins⊡ecti⊡ns), i⊡a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remar s: Wetland hydrology criterion is not met. No indication of consistent wetness on FSA crop slides or aerials.

Pr⊡ēctiSite: Loom	is Road Parcels			Citi	⊒C□unt□ Milwaukee	Sar	m⊒ing Date: October 30, 20	014
A□□licantiO□ner:	Bear Developme	ent, LLC			State:	WI	Sam⊒ing P⊒int: 1	Γ-12 DP-25 WTD
In⊡estigat⊡r(s):	Heather D. Patti	, PWS & Mike Al-Wathiqu	i		Secti⊡n, T□□ns⊡., R	Range: Se	ection 30, T5N R21E	
Land⊡rm (⊡illsl⊡e, t	errace, etc.):	wetland depression		L⊡cal r	relie⊑(c⊡nca⊑e, c⊡n⊑ex,	n⊡ne): sli	ightly concave	
SI⊡e (□): 0%		Lat: See Figure 2		L⊡ng: See Figure	2	_	Datum: See Figure 2	
S⊡l Ma□ Unit Name:		Blount silt loam, 1-	3% slopes (BIA), H	ydric Inclusions	V	VWI Classi ica	ıti⊡n: no r	ne
Are climatic □□□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡s time i	□□ear□	Υ	es <u>X</u> N□	(i□	īn□, ex⊡ain in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊡I	N □r H⊡dr□□g□	N signi∄cantl□	ldistur⊡ed□	Are "N⊡rmal Circum	nstances" ⊡res	sent□ Yes_	N□ <u>X</u>
Are Vegetati⊡n	N S⊡I	N □r H□dr□□□g□	**Ynaturall□□r	□⊟ematic□	(i⊡needed, ex⊟ain a	an□ans□ers ir	n Remar⊡s)	
SHMMARVAE	EINDINGS	Attach site map sho	wing campling	noint locations	transacte impo	rtant foatuu	roe oto	
				-			res, etc.	
H⊡dr⊡□⊡tic Vegetati	□n Present□	Yes		X	ls t⊡e Sam⊡ed Area	а		
H⊡dric S⊡l Present□		Yes X			□it⊡n a Wetland□		Yes X	N 🗆
Wetland H⊡dr⊡⊡g□P	resent□	Yes X	N□		I□⊑es, □□ti□nal □etla	and site ID:	W-9	
Remar⊡s:	*Farmed wetland	d with crop failure **Hy	drology is season	al				
VECETATION	llaa aaiautida .							
VEGETATION -	Use scientilic i	names ⊞r □ants.			_		Sam⊡ing P⊡nt: _	T-12 DP-25 WTD
Tree Stratum (PI⊡t si	_a. 30'B	A⊡s⊡ute □) C□⊑er	D⊡minant S⊡ecies	ndicat⊡r Status	Dominance 1	Test Workshe	et:	
Tice Guatum (File Sil	<u></u>) Cilei	3_ecies	Status	Num⊡er □□D□	⊡minant S⊡ecie	es	
1. <u>n/a</u>			<u> </u>		T⊑at Are OBL	_, FACW, 🕝 FA	AC: <u>2</u> ((A)
2.								
3					T⊑tal Num⊡er		•	(D)
4					S⊡ecies Acr⊡	ss Ali Strata:	((B)
6.					Percent □□D□	⊒minant S⊡ecie	es	
7.					T⊑at Are OBL	_, FACW, 🗗 FA	AC: 100% ((AB)
		=	T⊡tal C⊡er					
						ndex Worksh		700
					OBL s⊡ecies	_tal □ C□_er □	<u> Multi⊡</u> x 1 =	<u> </u>
Sa⊟ingเ\$⊡ru⊟ Stratuı	m (Pl⊡t si⊑e:	15'R)			FACW s⊒ecie		x 2 =	
	,				FAC s⊡ecies		x 3 =	
2					FACU s⊡ecies	s	x 4 =	
					UPL s⊡ecies		x 5 =	(D)
					C⊡umn T⊡tal	s:	(A)	(B)
I =					Pre⊡ale	ence Index B	A = n/a	
7.								
		=	T⊡tal C⊡er			Vegetation In		
					<u>x</u> <u>x</u>	Ra⊔d Test Ш D⊡minance T	Ir H⊡dr□□□□tic Vegetati□n	
						Pre alence In	and the second s	
Her⊟Stratum (PI⊡t si	⊡e: 5'R)					al Ada⊡tati⊡ns¹ (Pr⊡ide su⊟	□□rting
1. Alisma subcord		5%	Y OI				mar⊡s ⊡r ⊡n se⊡arate s⊡eet)	
2. Echinochloa cr	us-galli	5%	<u>Y</u> <u>F</u>	CW	<u> </u>	Pr⊡lematic F	H⊡dr□□□⊡tic Vegetati⊡n ¹ (Exi	⊒ain)
3								
5.					¹ Indicat⊡rs □	⊒⊒⊑dric s⊒il an	nd □etland □⊡dr□l□g□must	
6.							ed ⊡r ⊡⊡ematic.	
7.								
-								
4.0								
13								
14		10% =	T⊡tal C⊡er					
		1076 -	T Lai C Lei					
W□□d□Vine Stratum	(Pl⊡t si⊡e: 30'R	<u>)</u>						
1. <i>n/a</i>								
1. <i>II/a</i> 2.		· —						
3.		<u> </u>			Hydrophytic			
4.					Vegetation			
			= T⊡tal C□⊡er		Present?		Yes x No	
Remar⊡s: (Include □	⊡t□ num ⊡ers ⊡ere	⊡r ⊡n a se⊡arate s⊡eet.)			•			
,		asonal standing water/sa	aturation.					

SOIL T-12 DP-25 WTD Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features (inc [es] C□□r (m□ist) C□□r (m□ist) L □c² **Texture** Remar⊡s 0-15 80% 10YR 3/2 7.5YR 4/6 si cl loam silty clay 15-20 10YR 5/2 70% 7.5YR 4/6 30% ² L⊡cati⊡n: PL=P⊡re Lining, M=Matrix T⊡e: C=C □ncentrati □n, D=De □eti □n, RM=Reduced Matrix, CS=C □ered □r C □ated Sand Grains. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils³: Sand ☐ Gle ☐ed Matrix (S4) C ast Prairie Red (A16) (LRR.K.L.R) Hist⊡s ☐ (A1) Histic E □ □ed □n (A2) Sand □ Red □x (S5) Dar□Surace (S7) (LRR,K,L) Blac□Histic (A3) Stri □ ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) H⊡dr gen Sulide (A4) L□am □ Muc □ Mineral (F1) Ir n-Manganese Masses (F12) (LRR,K,L,R) Stratified La ers (A5) L□am□ Gle □ed Matrix (F2) Ver□S□all□□ Dar□Sur ace (TF12) 2 cm Muc (A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red x Dar Sur ace (F6) T⊓ic□Dar□Sur ace (A12) De leted Dar Surface (F7) Sand□Muc□ Mineral (S1) Red □x De □ressi □ns (F8) ³ Indicat rs □□□dr□□□tic e egetati n and □etland □□dr□□g□ must □e □resent, unless distur□ed □r □r□□lematic. Restrictive Layer (if observed): T⊡e: none **Hydric Soil Present?** Yes X No_ De It ☐ (inc ☐es): <u>n/a</u> Remar s: Hydric soil criterion is met. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar_Indicat_rs (minimum __t_ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re □uired □c □ec □ all t □at a □□□) Sur ace S I Crac (B6) Drainage Patterns (B10) Sur ace Water (A1) Water-Stained Lea Es (B9) Hig□Water Ta□e (A2) A□uatic Fauna (B13) Dr⊡-Seas⊡n Water Ta⊡e (C2) Saturati⊡n (A3) True A uatic Plants (B14) Cra □is □ Burr □□s (C8) Water Mar Is (B1) H⊡dr gen Sul îde Od r (C1) Saturati ☐n Visi ☐e ☐n Aerial Imager ☐ (C9) Sediment De□□sits (B2) Oxidi ed Ri seres in Li ing Rets (C3) Stunted □r Stressed Plants (D1) Dri t De □□sits (B3) Presence □□Reduced Ir□n (C4) Ge m r □ic P siti n (D2) Algal Mat □r Crust (B4) Recent Ir n Reducti n in Tilled S ils (C6) FAC-Neutral Test (D5) Ir□n De□□sits (B5) Tin Muc□Surace (C7) X Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) X S□arsel□Vegetated C□nca□e Sur□ace (B8) Ot□er (Ex □ain in Remar □s) Field Observations: Sur ace Water Present □ Yes De t (inc es): Water Ta⊟e Present□ Yes $N \square$ Х De at (inc es): Saturati⊡n Present□ De t (inc es): Wetland Hydrology Present? Yes X (includes ca ∐llar □ Tinge Descri⊡e Rec⊡rded Data (stream gauge, m⊡nit⊡ring □ell, aerial □□t⊡s, □re⊡⊡us ins□ecti⊡ns), i⊡a⊡aila⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slide:

Wetland hydrology criterion is met. Visible on most FSA slides and spring aerials.

Remar s:

Pr⊡ectiSite: Loom	is Road Parcels				Cit⊡C □unt □: Milwaukee	Sam⊡ing Date: October 30, 2014
A□□licantːO□ner:	Bear Developme	ent, LLC			State:	WI Sam⊡ing P⊡nt: DP-26 UPL
In⊑estigat⊡r(s):	Tina M. Myers, I	PWS			Secti⊡n, T□□ns⊡□, Ran	nge: Section 30, T5N R21E
Land ⊞rm (⊑illsl⊐⊑e, te	errace, etc.):	ackslope		L	cal relie⊑(c⊑nca⊑e, c⊡n⊑ex, n⊡r	ne): convex
SI□□e (□): 2-3 %	_	Lat: See Figure 2		L⊡ng: See Fi	gure 2	Datum: See Figure 2
S⊡I Ma□ Unit Name:		Ashkum silty clay	loam 0-2% slo	opes (AsA), Hydric		VI Classi⊡cati⊡n: none
Are climatic □□dr□□	aic c⊓nditi⊓ns ⊓n t	e site t⊡ical ⊞r t⊡s time □			Yes X N□	
Are Vegetati⊡n	N S⊡I	N ⊡rH⊡dr⊡⊡g□		antl□distur⊑ed□	Are "N□rmal Circumsta	
Are Vegetati⊡n	N SI	*Y □r H□dr□□□□□		□ □r□□lematic□		□ans□ers in Remar⊡s)
•					•	,
SUMMARY OF I	FINDINGS A	Attach site map sho	wing samp	ling point location	ons, transects, importa	ant features, etc.
H⊡dr□□□□tic Vegetati	⊓n Present⊓	Yes	NΠ	Х	Is t⊡e Sam⊡ed Area	
H⊡dric S⊡l Present□		Yes X			□it⊡in a Wetland□	Yes N□ X
Wetland H⊡dr⊡⊒g□P	resent□	Yes		х	I□□es, □□ti□nal □etland	
Remar⊡s:	*Drained hydric	all three wetland criteria.				
VEGETATION -		names ⊞r □ants.				Sam⊟ing P⊡nt: DP-26 UPL
VEGETATION -	Ose scientific	A 🗀 🗆 ute 🗆	D⊡minant	Indicat⊡r		
Tree Stratum (PI⊡t si	⊑e: 30' R)	C⊟⊑er	S⊒ecies	Status	Dominance Tes	st Worksheet:
,	,		,		Num⊡er □□D□mi	inant S⊡ecies
1. <u>n/a</u>					T⊡at Are OBL, F.	FACW, 🗆 FAC:(A)
2.						
3					T⊡tal Num⊡er ⊡ S⊡ecies Acr⊡ss /	
5					SLedles Adillas i	All Strata: 4 (B)
6.	-				Percent □□D□mii	inant S⊡ecies
7.					T⊡at Are OBL, F.	FACW,
		= =	T⊡tal C□⊑er			
					Prevalence Inde	
						0 x 1 = 0
Sa⊒lingเ\$⊡ru⊟Stratur	m (Pl⊏t si⊏e·	15'R)			OBL s⊡ecies FACW s⊡ecies	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1. Rhamnus catha		40%	Υ	FAC	FAC s⊡ecies	141 x 3 = 423
2. Lonicera x bella		5%	N	FACU	FACU s⊡ecies	50 x 4 = 200
3. Cornus racemo	osa	5%	N	FAC	UPL s⊡ecies	43 x 5 = 215
4. Viburnum lenta		3%	N	FAC	C⊡umn T⊡tals:	239 (A) 838 (B)
5. Frangula alnus		3%	N	FAC	Des Calana	an Indoor DCA - OF
6. 7.					Pre∟aience	te Index BIA = 3.5
··-		56% =	T⊡tal C⊟⊑er		Hydrophytic Ve	egetation Indicators:
					Ra	a⊑id Test ⊞r H⊡dr⊒⊒⊒tic Vegetati⊡n
						□minance Test is □50□
l						re alence Index is ≤ 3.0 ¹
Her□ Stratum (PI□t si	⊡e: 5' R		v	E40		1⊡ ⊡igical Ada⊡tati⊡ns¹ (Pr⊡ide su ⊡⊡rting
Poa pratensis Fragaria virgini	iana	80% 40%	Y	FACU		data in Remaris ir in seiarate sieet) riciamatic Hidricialitic Vegetation (Exclain)
3. Solidago nemo		40%	Y	UPL	- "	resonate regulation (Exclaim)
4. Carex grisea		10%	N	FAC		
5. Taraxacum offic	cinale	5%	N	FACU	¹ Indicat⊡rs □□□□	⊡dric s⊡l and □etland □⊡dr⊡⊡g□must
6. Euthamia gram	inifolia	5%	N	FACW	□e □resent, unl	less distur⊡ed ⊡r ⊡r⊡⊒ematic.
7. Daucus carota		3%	N	UPL		
8. 9.						
10						
l						
4.0						
13.						
14		4000/				
		183% = 7	T⊡tal C⊟⊑er			
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R)				
1. n/a						
2						
3					Hydrophytic	
4			= T⊡tal C□⊡er		Vegetation Present?	Yes No X
		□r □n a se⊡arate s⊡eet.)				
Hydrophytic vegetat	tion criterion is n	ot met. Plant community	is an upland m	neadow between a co	orn field and a dense upland s	shrub thicket.

SOIL								Sam⊒ing P⊑int:	DP-26 UPL
Profile Description: (D	Describe to the depth nee	eded to docum	ent the indicato	r or confirm t	ne absence o	of indicate	ors.)		
De⊡t□	Matrix			Red⊡x Featu			,		
(inc⊑es)	C□□r (m□st)		C□□r (m⊡st)		<u>T⊡e</u> 1	L□c ²	Texture	Remar⊡s	
0-9	10YR 2/1	100%		•			si cl loam		
9-24	10YR 4/2	60%	10YR 5/6	40%	С	М	silty clay		
								_	
					-				
			-						
		·		- '			· · · · · · · · · · · · · · · · · · ·		<u>.</u>
¹ T⊞e: C=C⊡ncentrati⊡r	n, D=De⊟eti⊡n, RM=Redu	ced Matrix, CS=	C⊡ered ⊡r C⊡a	ted Sand Grair	ıs.	2	L⊡cati⊡n: PL=P⊡re Lir	ning, M=Matrix	
Hydric Soil Indicators:							Indicators for D	roblematic Hydric Soils ³ :	
•	•	c	and⊟Clo∃ed Me	striv (C1)				•	`
Hist⊡s□ (A1) Histic E⊡⊡ed⊡n (A2	2)		sand□Gle⊑ed Ma sand□Red⊑x (S5					rairie Red⊡x (A16) (LRR,K,L,R r⊠ce (S7) (LRR,K,L))
Blac Histic (A3)	2)		stri⊐⊑ed Matrix (S	•				ic⊞ ⊑eat ⊡r ⊑eat (S3) (LRR,K,L)
H⊡dr⊡gen Sultide (A4)		□am□ Muc □ Mir	,				nganese Masses (F12)(LRR,K	
Strati∄ed La⊡ers (A			_am □ Gle ⊑ed Ma					all□□ Dar□Surtace (TF12)	, , ,
2 cm Muc□ (A10)		X	e⊒eted Matrix (l	F3) ` ´				x⊒ain in Remar⊡s) ُ	
De ⊟eted Bel □□ Da	ar⊟Surtace (A11)	F	Red⊡x Dar⊡Sur⊡	ace (F6)					
T⊑c□Dar□Surace	, ,		e⊟eted Dar⊟Su	` '					
Sand□Muc□ Mine	eral (S1)	F	Red⊡x De⊡ressi⊟	ns (F8)					
							2		
								dr□□□tic e ⊑egetati⊑n and □etla	and
							•	ie □resent, unless distur□ed □r	
							□r□□lematic.		
D	N				1				
Restrictive Layer (if ob T⊞e: none	oservea):								
	2/2					Llvd	Iria Cail Bracant?	Voc. V No	
De⊡t⊡ (inc⊡es): <u>r</u>	ı/a					пуи	Iric Soil Present?	Yes X No	'
Remar⊡s: Hydric s	soil criterion is met; how	ever, based on	plant commun	ity and lack of	hydrology,	this appe	ars to be a relict hyd	Iric soil from a former	
	gic regime.		•	•			·		
HYDROLOGY									
Wetland Hydrology Inc							Sec⊡nda	ar□Indicat⊡rs (minimum □□t□□	<u>re⊡uire</u> d)
Primar□Indicat⊡rs (mini	imum □□□ne is re□uired□c	⊡ec□all t⊡at a□□	1□)					_ Sur⊡ace S⊡l Crac⊡s (B6)	
Sur ace Water (A1))	v	Vater-Stained Le	a⊑es (B9)				Drainage Patterns (B10)	
Hig□ Water Ta □e ((A2)		∖⊡uatic Fauna (B	,				Dr⊡-Seas⊡n Water Ta⊡e (C	2)
Saturati⊡n (A3)			rue A⊡uatic Plar					_ Cra ⊡is □ Burr □□s (C8)	
Water Mar⊡s (B1)			l⊡dr⊡gen Sulûde	, ,				_ Saturati⊡n Visi⊡e ⊡n Aerial I	
Sediment De □sits	s (B2)		oxidi ⊑ed R ⊡ ⊡s		g R⊡ts (C3)			Stunted □r Stressed Plants (D1)
Dri t De □sits (B3)	(D.4)		resence □□Redu		o≓i (00)			Ge □m □r □□ic P □siti □n (D2)	
Algal Mat 🗆 Crust	(B4)		Recent Ir⊡n Redu		S⊔IS (Cb)			FAC-Neutral Test (D5)	
Ir⊡n De⊡sits (B5)	⊡n Aerial Imager□(B7)		ˈ⊑in Muc□Surಡc Sauge ⊑r Well Da						
	d C⊡nca⊡e Sur⊡ace (B8)		auge ⊔ we⊪ba)t⊑er (Ex⊟ain in						
O Larson Vegetated	d Ollicale Guillace (DO)		ALECT (EXELENT III	rtemai 😅					
ELLO CONTRACTOR									
Field Observations:		No. 15	D == "			1			
Surace Water Present		N X	De t (inc es):		Ī				
Water Ta⊒e Present□ Saturati⊡n Present□	Yes Yes	N□ X N□ X	De t (inc es): De t (inc es):		•		Watlan	d Hydrology Present? Yes	s No X
(includes ca⊡llar□ ringe		NuX	Della (incles).				Wetian	u riyurology Fresent: Tes	· NO
Descri⊡e Rec⊟rded Date	a (stream gauge, m⊡nit⊡rir	ag ⊟ell perial ⊟	ode Gradious in	ne⊟ecti⊏ne\i⊏	a ⊏aila ⊟e:				
	re 1), 1-foot contour map	-				n 2000 2	005 2010 and 2013	(Figures 4A-D)	
	NOAA's AHPS map (Figu					2000, 2	, 2010, allu 2013	(1 igui 63 7A-D),	
		,,	-,	- p					
Remar⊑s: Wetland	hydrology criterion is n	ot met.							
	,								

Pr⊡ectiSite: Loom	nis Road Parcels			Cit⊡C□	unt⊡ Milwaukee	s	Sam⊡ing Date: October 30, 2014	
A□□icantɪ᠐□ner:	Bear Developm	nent, LLC			State:	WI	Sam⊡ing P⊡nt: T-13 I	OP-27 UPL
In⊑estigat⊡r(s):	Tina M. Myers,	PWS & Nancy Wilson		S	ecti⊡n, T⊡□ns⊡⊑, Rano	ge: S	Section 30, T5N R21E	
Land ≣rm (⊑illsl⊐⊒e, t	terrace, etc.):	slight hillIslope		L⊡cal relie	[(c⊡nca⊡e, c⊡n⊡ex, n⊡n	ne): s	slightly convex	
SI□□e (□): 1-2%		Lat: See Figure 2	<u> </u>	ng: See Figure 2			Datum: See Figure 2	
S⊡l Ma Unit Name:	:	Elliott silt loam, 1-3	3% slopes (EsA), Hydric	Inclusions	WWI	l Classi∄	icati⊡n: none	
Are climatic □□dr□□	⊒gic c⊡nditi⊡ns ⊡n t	t⊡e site t⊡ícal ⊞r t⊡s time i	□□ear□	Yes	X N□	((i⊡n□, ex⊡ain in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊟I	N □r H □dr □ □g □	N _signi⊡cantl□distur	⊡ed□	Are "N⊡rmal Circumsta	ances" ⊡r	resent□ Yes	N□ X
Are Vegetati⊡n	N S⊡I	**Y_ □r H□dr□□□g□	N naturall□□r□□lema	ntic□	(i⊡needed, ex⊡ain an⊡	ans□ers	s in Remar⊡s)	
CUMMARYOF	EINDINGS	Attack site were she						
SUMMARY OF	FINDINGS	Attach site map sho			ansects, importa	nt reat	ures, etc.	
H⊡dr⊡⊡⊒tic Vegetati	i⊡n Present⊟	Yes			ls t⊡e Sam⊡ed Area			
H⊡dric S⊡l Present□]	Yes ** X	N 🗆		□it⊡n a Wetland□		Yes N□	X
Wetland H⊡dr⊒⊡g□F	Present□	Yes	N□ <u>X</u>		I□□es, □□ti□nal □etland	site ID:	N/A	
Remar⊑s:	*Active corn fie	eld - corn is healthy, no cr	op stress	•				
		soils underneath 4 inches						
	,							
VEGETATION -	· Use scienti∄c	names ⊞r □ants.					Sam⊡ing P⊡nt: <u>T-1</u> :	3 DP-27 UPL
T 01 1 (DIT :	- 0015	A⊡s⊒ute □	D⊡minant Indicat		Dominance Test	t Worksh	heet:	
Tree Stratum (PI⊡t si	I_E: 30'R) C⊟⊑er	S⊡ecies Status	<u> </u>	Num⊡er □□D⊡mir	nant S⊡e	acias	
1. <i>n/a</i>					T⊡at Are OBL, F			
2.					,.,	, _		
3.					T⊡tal Num⊡er □□			
4					S⊑ecies Acr⊑ss A	All Strata:	1 (B)	
5					Percent □□D□mir	oont C⊡o	anion.	
7.					T⊡at Are OBL, F			
		=	T⊡tal C⊡er			- ,		
					Prevalence Inde			
						□ C□⊑er		
Sa⊡ingเ\$⊡ru⊟Stratu	ım (Pl⊡t si⊡a·	15'R)			OBL s⊡ecies FACW s⊡ecies	_	x 1 = x 2 =	
	uni (FIEL SIEE.	13 ()			FAC s⊡ecies	_	x 3 =	
2.					FACU s⊡ecies	_	x 4 =	-
					UPL s⊡ecies	_	x 5 =	1
					C⊡umn T⊡tals:	_	(A)	(B)
					Pre⊑alence	Index B	B 🖟 = n/a	
7.					FIELBICITO	ilidex L	11/a	
		=	T⊡tal C⊡er		Hydrophytic Ve	getation	Indicators:	
							t ⊞r H⊡dr⊒⊒⊒tic Vegetati⊡n	
							e Test is ⊡50□ e Index is ≤ 3.0¹	
Her□ Stratum (Pl⊡t si	i⊡e: 5'R	1					e index is ≤ 3.0 ical Ada⊡tati⊡ns¹ (Pr⊡ide su⊡⊟rtin	ın
1. Zea mays		75%	Y UPL				lemar⊑s	9
2. Daucus carota		5%	N UPL		Pri	□□lematio	c H⊡dr□□□□tic Vegetati⊡n ¹ (Ex⊡ain)	
3.								
4					1 Indicators	odeia a ⊏il a	and □etland □⊡dr□□g□must	
5. 6.							and Detiand DurDugDmust ir⊑ed ⊡r ⊡Dematic.	
7.					EO El COOIR, unite	Joo diotai	TEG I I II I I I I I I I I I I I I I I I	
8.								
								
12.				_				
13.								
14.								
		= 80%	T⊡tal C⊡er					
W□⊡d□Vine Stratum	ı (Pl⊡t si⊡e: 30'R)						
1. <u>n/a</u>								
3				 -	Hydrophytic			
4.					Vegetation			
			= T⊡tal C⊡er		Present?		Yes No X	•
		_						
Remaris: (Include II	□T num ere ere	e □r □n a se⊡arate s⊡eet.)						
,		not met. No crop stress ol	bserved.					

SOIL								Sam⊒ing P⊑nt:	T-13 DP-27 UPL
Profile Description:	(Describe to the depth need	ded to docun	nent the indicato	or or confirm t	he absence o	of indicate	ors.)		
De⊒t□	Matrix			Red⊡x Feat	ures				
(inc⊑es)	C□□r (m⊡st)		C□□r (m□ist)		<u>T⊡e¹</u>	L⊡c ²	Texture	Remar⊡s	
0-4	10YR 3/1	100%		-			si cl loam		
4-15	10YR 2/1	100%			-		si cl loam		
15-24	10YR 5/1	60%	10YR 5/6	40%	С	М	silty clay	-	
13-24	10110 3/1	0070	101103/0	4070	- — —		Sitty Clay		
					-				
			-		-				
					-				
			-						
								-	
		·							
¹ T⊞e: C=C⊡ncentrat	i⊑n, D=De⊟eti⊑n, RM=Reduc	ed Matrix, CS	=C⊡ered ⊡r C⊡a	ted Sand Grair	ns.	2	L⊑cati⊑n: PL=P⊡re Li	ining, M=Matrix	
Hydric Soil Indicator	re.						Indicators for E	Problematic Hydric Soils ³ :	
Hist⊡s⊟ (A1)			Sand□Gle⊑ed Ma	atrix (SA)				Prairie Red⊡x (A16) (LRR,K,L,	D)
Histic E ⊡ ⊒ed □n ((A2)		Sand⊟Red⊡x (S5	, ,				raine (S7) (LRR,K,L)	N)
Blac□Histic (A3)	· ,		Stri⊟⊑ed Matrix (\$,				uc⊞ ⊑eat ⊡r ⊡eat (S3) (LRR,K	LL)
H⊑dr⊑gen Sulüde			L⊡am□ Muc⊞ Mi					inganese Masses (F12)(LRR,	
Strati⊡ed La⊡ers	• •		L□am□ Gle ⊡ed M	. ,				all □ Dar Sur ace (TF12)	,
2 cm Muc□ (A10)		De⊒eted Matrix (F3)			Ot⊡er (E	Ex⊒ain in Remar⊡s)	
*X De □eted Bel □□			Red⊡x Dar⊡Suri						
T⊡c□Dar□Sur⊡	, ,		De⊟eted Dar⊡Sเ						
Sand□Muc⊞Mi	neral (S1)		Red⊡x De⊡ressi□	ns (F8)					
							31 11 15 555	-l	
								⊡dr□□□□tic e⊡egetati⊡n and □e □e ⊡resent, unless distur⊡ed □	
							□r□□lematic.	Le l'esent, uniess disturLeu l	_
Restrictive Layer (if	observed):				1				
T⊞e: none	obodi vouj.								
	n/a					Hvd	ric Soil Present?	Yes N	No X
,						•			
•	l" is likely sediment from ag acks hydrology indicators, i	•	•					•	
	o farming practices.					•			
									-
HYDROLOGY									
Wetland Hydrology		_ "					Sec⊡nd	ar Indicat rs (minimum ====	<u>□ re □uire</u> d)
·	inimum □□ne is re □uired □c □					_		Sur ace S il Crac (B6)	
Sur ace Water (A	,		Water-Stained Le	. ,				Drainage Patterns (B10)	
Hig□ Water Ta□	e (A2)		A⊡uatic Fauna (B	,				Dr⊡Seas⊡n Water Ta⊡e (32)
Saturati⊡n (A3)	`		True A⊡uatic Plai					Cra □is □ Burr □□s (C8)	L I(CO)
Water Mar⊡s (B1	*		H⊡dr⊡gen Sulūde Oxidi⊡ed R⊡i⊡s⊡	, ,	a D⊟to (C2)			Saturati⊡n Visi⊡e ⊡n Aeria Stunted ⊡r Stressed Plants	• ,
Sediment De□⊆s Dri∄ De□⊑sits (B			Oxidi∟ed R⊟⊥si Presence □□Redi		g R⊔⊔s (C3)			Ge m r dic P siti n (D2)	(DI)
Algal Mat □r Crus			Recent Ir⊡n Redu		STils (C6)			FAC-Neutral Test (D5)	
Ir⊡n De□⊑sits (B	· ·		T⊡n Muc⊟Sur⊡o		0113 (00)			TAO-Nedital Test (Do)	
	e ⊡n Aerial Imager□(B7)		Gauge ⊡r Well Da						
	ted C⊡nca⊡e Sur⊡ace (B8)		Ot⊡er (Ex⊟ain in						
	, ,		•	•					
Field Observations:									
Surace Water Preser	nt□ Yes	N□ X	De⊡t⊟ (inc⊡es)	•					
Water Ta ☐e Present		N□ X	De t (inc es)		-				
Saturati⊡n Present□	Yes	N□ X	De t (inc es)		-		Wetlar	nd Hydrology Present? You	es No X
(includes ca⊡llar□ īrin	ige)				_				
Descri⊡e Rec⊡rded D	ata (stream gauge, m⊡nit⊡rin	g □ell, aerial □	□□t□s, □re⊡□us i	ns⊡ecti⊡ns), i⊡	a⊡aila⊟e:				
	gure 1), 1-foot contour map					n 2000, 2	005, 2010, and 2013	(Figures 4A-D),	
WWI map (Figure 5),	, NOAA's AHPS map (Figure	e 6), Local W	ETS table, and	FSA Crop Slid	les				
Remar⊡s: Wetla ı	nd hydrology criterion is no	t met. No ind	ication of consi	stent wetness	on FSA crop	slides or	aerials.		

Pr⊡ēctiSite: Loom	nis Road Parcels				Cit⊡C□unt⊡ <u>Milwaukee</u>	Sam⊡ing Date: October 30, 2014
A□□licantiO□ner:	Bear Developm	ent, LLC			State:	WI Sam⊡ing P⊡nt: T-13 DP-28 WTD
In⊑estigat⊡r(s):		PWS & Nancy Wilson			Secti⊡n, T□□ns⊡□, Range:_	Section 30, T5N R21E
Land⊡rm (⊡llsl□□e,	terrace, etc.):	wetland depression		LD	cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	concave
SI□□e (□): <u>0%</u>		Lat: See Figure 2		L⊡ng: See Fig	jure 2	Datum: See Figure 2
S⊡l Ma□Unit Name:	: <u> </u>	Ashkum silty cla	ay loam 0-2% slo	pes (AsA), Hydric	WWI Cla	ssi⊡cati⊡n: E2H
Are climatic □□□dr□□	⊑gic c⊡nditi⊡ns ⊡n t	⊡e site t⊞ical ⊞r t⊟s time	e□□□ear□		Yes X N□	(i⊡n⊟, ex⊟ain in Remar⊡s)
Are Vegetati⊡n	N S⊡I	N □r H⊡dr□□g□		ntl□distur⊡ed□	Are "N⊑rmal Circumstances	s"
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H □dr □ □g □	N naturall	□r□□lematic□	(i⊡needed, ex⊡ain an□ans	□ers in Remar⊡s)
STIMMARY OF	EINDINGS	Attach cita man ch	owing compli	ing point locatio	ne transacte important f	opturos eta
SUMINIART OF	FINDINGS	Attach site map si	owing sampli	ing point locatio	ns, transects, important f	eatures, etc.
H⊡dr□□□□tic Vegetat	ti⊡n Present□	Yes X	N□		Is t⊡e Sam⊡ed Area	
H⊡dric S⊡l Present□]	Yes X	N□ _		□it⊡in a Wetland□	Yes <u>X</u> N□
Wetland H⊡dr⊒⊡g⊒F	Present□	Yes X	N□		l⊡es, □⊏ti□nal □etland site	ID: W-7
Remar⊡s:	Wetland is a la	rge shallow marsh includ	ding areas of one	n water	•	
rtomar b.	Worlding to a fai	ge chanen maren mora	amy areas or ope	ii wator.		
VEGETATION -	- Use scienti īc	names				Sam ling P int: T-13 DP-28 WTD
		A⊡s⊒ute □	D⊑minant	Indicat⊡r	5	1.1
Tree Stratum (PI⊡t si	i⊡e: 30'R) C⊟⊑er	S⊡ecies	Status	Dominance Test Wo	rksneet:
_					Num⊡er □□D□minant	
1. <u>n/a</u>					T⊡at Are OBL, FACW	/, 🗆 FAC: 1 (A)
2. 3.					T⊑tal Num⊑er □□D⊡m	sin ant
4					S⊟ecies Acr⊟ss All St	
5.						(5)
					Percent □□D□minant	S⊑ecies
7.					T⊑at Are OBL, FACW	/, □r FAC:(A·B)
			= T⊡tal C⊡er			
					Prevalence Index W T⊡tal □ C	
					OBL s⊡ecies	x 1 =
Sa⊟ingเ\$⊡ru⊟Stratu	um (Pl⊡t si⊡e:	15'R)			FACW s⊡ecies	x 2 =
1. n/a	,				FAC s⊡ecies	x 3 =
2.					FACU s⊡ecies	x 4 =
					UPL s⊡ecies	x 5 =
_					C⊟umn T⊡tals:	(A) (B)
					Pre⊑alence Inde	ex B⊡A = n/a
7.					r re_alerice inde	X DEA - IVA
		-	= T⊡tal C⊡er		Hydrophytic Vegeta	tion Indicators:
						Test
						ance Test is □50□
	in. de	,				ence Index is ≤ 3.0 ¹
Her□ Stratum (PI□t s 1. Phalaris arund		<u>)</u> 100%	Υ	FACW		⊒⊑gical Ada⊡tati⊡ns¹(Pr⊡ide su≔⊟rting in Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
Typha angustii		20%		OBL		matic H⊡dr⊒⊒⊒tic Vegetati⊡n¹ (Ex⊒ain)
3.					_	(_
4.						
5.		_				s⊡l and □etland □⊡dr⊡⊡g⊡must
6					⊡e ⊡resent, unless d	listur⊡ed ⊡r ⊡r⊟⊒ematic.
7						
•						
13.						
14						
		120%	= T⊡tal C⊡⊑er			
W□⊡d□Vine Stratum	n (Pl⊡tsi⊡e: 30'R)				
	•					
1. <u>n/a</u>						
2						
3					Hydrophytic	
4			= T⊡tal C□⊡er		Vegetation Present?	Yes X No
			•			· <u></u>
Remar⊑s: (Include □	□□t□ num □ers □ere	□r □n a se⊡arate s⊡eet.)				
Hydrophytic vegeta	ation criterion is n	net. Plant community is	a fresh (wet) mea	adow transitioning to	a shallow marsh.	

SOIL Sam⊡ing P⊡nt: T-13 DP-28 WTD

Sediment Dellisits (B2) Oxidiled Rilsers in Liling Rest (C3) Drift Dellisits (B3) Presence Reduced Ir (C4) Algal Mat in Crust (B4) Ir Dellisits (B5) In Muce Surface (C7) Inundation Visible in Aerial Imager (B7) Starsel Vegetated Concale Surface (B8) Other (Exclain in Remarks) Started Sits (C3) Stunted in Stressed Plants (D1) X Gelmin in (D2) X FAC-Neutral Test (D5) X FAC-Neutral Test (D5) In Muce Surface (C7) Inundation Visible in Aerial Imager (B7) Starsel Vegetated Concale Surface (B8) Other (Exclain in Remarks)	nc⊡es) C□□r (m⊡st)	□ C□□r (m□ist) □	<u>T⊞e¹ L</u>	.⊡c ² <u>Texture</u>	Remar⊡s
Indicators: Haid Stall (A) Sand Cleind Matrix (S4) Black Haide (A) Sand Cleind Matrix (S4) Black Haide (A) Stall and Matrix (S6) Black Haide (A) Stall and Matrix (S6) Black Haide (A) Class Matrix (S6) Black Haide (A) Class Matrix (S6) Class Matrix (S6) Class Matrix (S6) Class Mat	0-24 10YR 2/1	100%		muck	some clay content as well
Indicators: Haid Stall (A) Sand Cleind Matrix (S4) Black Haide (A) Sand Cleind Matrix (S4) Black Haide (A) Stall and Matrix (S6) Black Haide (A) Stall and Matrix (S6) Black Haide (A) Class Matrix (S6) Black Haide (A) Class Matrix (S6) Class Matrix (S6) Class Matrix (S6) Class Mat					
Indicators: Historia (A1)					-
Indicators: Historia (A1)					-
Indicators: Historia (A1)					-
Indicators: Hast Tail (A1) Sand Gie Ted Matrix (S4) Hast Tail (A2) Sand Ted 27 (S5) Blacc Haste (A3) Since Matrix (S6) S					
Hast Fail (A1) Hast Fail (A2) Hast Fail (A2) Sand "Gered Matrix (S4) Sand "Red x (S5) Blacc-Hatel (A3) Substitute (A4) Lum-Gleue Matrix (S4) Stratistic (A3) Substitute (A4) Lum-Gleue Matrix (S6) Substitute (A6) Substitute (A7) Substitute					
Indicators or Problematic Hydric Soils* Hais Tail (Af) Hais Tail (Af) Hais Tail (Af) Sand-Gle-Ed Matrix (S5) Blacc-Hais (A3) Since Matrix (S5) Blacc-Hais (A3) Since Matrix (S5) Blacc-Hais (A3) Lum-Gle-Ed Matrix (S5) Stratialed Lums (A5) Lum-Gle-Ed Matrix (F1) Care Matrix (A7) Bacc-Hais (A3) Lum-Gle-Ed Matrix (F2) Care Matrix (A7) Bacc-Hais (A3) Lum-Gle-Ed Matrix (F2) Care Matrix (A7) Bacc-Hais (A3) Lum-Gle-Ed Matrix (F2) Care Matrix (A7) Bacc-Hais (A3)					
Indicators (Problematic Hydric Soils* Historia (A1)					
Indicators (Problematic Hydric Soils* Historia (A1)					-
Indicators: HistaTail (A1)					
Indicators: HistaTail (A1)					
Indicators: HistaTail (A1)					-
Indicators (Problematic Hydric Soils* Historia (A1)					
Indicators: HistaTail (A1)					-
Institute Clark Sand Gered Matrix (\$4) Sand Clark (\$5) Daris Wares (\$7 (LRR KLLR) Listed Clark (\$6) Listed Listed Clark (\$6) Listed Clark (\$6) Listed Clark (\$6) Listed Listed Clark (\$6) Listed Liste	ше: C=C□ncentrati□n, D=De □eti□n, RM=Reduce	d Matrix, CS=C□⊑ered □r C□ated Sand Gra	ains.	² L⊡cati⊡n: PL=P⊡re	Lining, M=Matrix
Histar Ell (A1) Sand Gerad Matrix (\$4) Case Prairie Red x A16 (LRR, LLR, Histae Ell and LA2) Sand Red x (\$5) Dart Swares (\$7), LRR, LL, LL Hard Gerad Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Gerad Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$7), LRR, LL, LL Hard Matrix (\$8) Dart Swares (\$8) Hard Matrix (\$8) Time Audit Plant (\$8) Hard Water Table (\$2) Dart Swares (\$8) Dart Swares (\$8) Dart Swares (\$8) Dart Swares (\$8) Hard Water Table (\$8) Dart Swares (\$8) Dart Swares (\$8) Dart Swares (\$8) Hard Water Table (\$8) Dart Swares (\$8) Dart Swares (\$8) Dart Swares (\$8) Hard Water Table (\$8) Dar	deia Call Indiantana			la dia stana fan	Parklamatic Hadria Caila3
Bislac Effect of In (A2)					•
Startical Matrix (St) Star					
Indicage Suitake (A4) Lam. Muc.EMineral (F1) Firsh Managenee Masses (F12)(LRR,KLR)	•				
Stratistic Lazers (A5)					
De Ieled Bell: Darfi Suriace (A11) De Ieled Darf. Suriace (F8)					
Declated Bell Dar: Surace (A11)					
Deleted Dard Surace (F7) Sand Muc Mineral (S1) Set including must be desention and detained and did degree sets of the management of the delete sets of the management of th				Ot_er	(EXLIAIN IN RemarLs)
Sand=Muc Mineral (S1) Red X De Tessitins (F8)					
**Secriticitive Layer (if observed): Title: none Detti (incles): n/a Hydric Soil Present? Yes X No But (A) Hydric Soil Present? Yes X No Water-Stained Leal: e. (B) Surface Stail Cross (B6) Surface Stail Cross (B7) Crass (B7) Surface Stail Cross (B7) Crass (B7) Surface Stail Cross (B7) Surf	• • • • • • • • • • • • • • • • • • • •				
### Present Company of					
### Section of Control				3 Indicators or	Dodrootic a caratatica and catland
astrictive Layer (if observed): Tite:none Delic (incles):n/a					•
### Page 1				•	t Le li esent, uniess distui Led li
Hydric Soil Present? Yes x No				⊔ ⊔⊔emanc.	
Hydric Soil Present? Yes _X No					
Pyprology Typrology					
PARTICLE Hydric soil criterion is met. Particle Pa		<u></u>			
### Audic Faunce Sec_Indar_Indicators Sec_Indar_Indicators (minimum □ □ □ re_lured)	De⊑t⊟ (inc⊑es): n/a			Hydric Soil Present?	Yes X No
### AUDITION OF STATE OF THE PRESENT OF SECTION OF SECTION OF SEASON OF SECTION OF SECT	' <u>-</u>			riyane com riesem:	
Sec_indar Indicators Sec_indar Indicators Sec_indar Indicators Surface Still Cracis (B6)	- 11.11.11.11.11.11.11.11.11.11.11.11.11.			Tryunc don't resent:	
Sec_indar Indicators Sec_indar Indicators Sec_indar Indicators Surface Still Cracis (B6)	emar s: Hydric soil criterion is met.			Tiyuno oon i resent:	<u> </u>
Sec_indar Indicators Sec_indar Indicators Sec_indar Indicators Surface Still Cracis (B6)	emar⊡s: Hydric soil criterion is met.			Tryune con r resent:	<u> </u>
Sec_indar Indicators Sec_indar Indicators Sec_indar Indicators Surface Still Cracis (B6)	emar⊡s: Hydric soil criterion is met.	_		Tryunc doi: 1 Tesent:	<u> </u>
Sec_indar Indicators Sec_indar Indicators Sec_indar Indicators Surface Still (racits (Bis)	emar⊡s: Hydric soil criterion is met.			Tryanc doi: 1 resent:	<u> </u>
Surface Water (A1) Surface Water (A1) Hig Water Tarle (A2) Aduatic Fauna (B13) Water Blut (B14) Water Blut (B15) Water Maris (B1) Sediment Delisits (B2) Drisses in Water Is like (C2) Sediment Delisits (B3) Presence Reduced Ir in (C4) Algal Mat in Crust (B4) Ir in Delisits (B5) Inundation Visible in Aerial Imager (B7) Saturation Visible in Remarks Blut (B2) Coules (B3) Coules (B3) Coules (B4) Coules	emar⊡s: Hydric soil criterion is met.			Tryunic doi: 11eseill:	
Surface Water (A1)				Tryunic doi: 11 esent:	
Suriace Water (A1) Hig Water Tatle (A2) Attaitic Fauna (B13) Water-Stained Leates (B9) Attaitic Fauna (B13) True Attaitic Fauna (B13) Water Martis (B14) Water Martis (B1) Sediment Delits (B2) Oxidited Reflectioners in Liting Ritts (C3) Sediment Delits (B3) Algal Mat to Crust (B4) In Delits (B3) Algal Mat to Crust (B4) In Delits (B5) In Muco Suriace (C7) Gauge or Well Data (D9) Starsel Vegetated Concate Suriace (B8) Other (Extlain in Remarks) Wetland Hydrology Present? Yes X No Delit (incites): ater Tatle Present Yes X No Delit (incites): ater Tatle Present Yes X No Delit (incites): ater Tatle Present (Yes X	YDROLOGY				
Hig Water Table (A2) K Saturatin (A3) True Abuatic Fauna (B13) Water Maris (B1) Sediment Debists (B2) Drill Debists (B3) Algal Mat in Crust (B4) In Debists (B5) In Debists (B5) In Debists (B5) In Debists (B5) Saturatin (B4) Recent In Reductin in Tilled Sils (C6) In Debists (B5) In	YDROLOGY Tetland Hydrology Indicators:				ndar⊡Indicat⊡rs (minimum ⊡t⊡ re⊡uired)
Hig Water Table (A2) X Saturation (A3) Water Marcs (B1) Water Marcs (B1) Presence Reduced Iron (C4) Algal Mat or Crust (B4) Iron Decists (B5) Iron Decists (B6) Iron Decists (B6	IYDROLOGY Vetland Hydrology Indicators:	c□all t⊡at a⊞□)			ndar⊡Indicat⊡rs (minimum ⊡t⊡ re⊡uired)
Saturati	YDROLOGY letland Hydrology Indicators: rimar⊡Indicat⊡rs (minimum ⊞ne is re⊡uired⊡c⊡e	,		<u>Sec</u>	ndar⊡Indicat⊡rs (minimum ⊡t⊡□re⊡uired) Surīace S⊡i Crac⊑s (B6)
Sediment Delisits (B2) Oxidiled Risters in Liting Rists (C3) Drift Delisits (B3) Presence Reduced Irin (C4) Algal Mat ir Crust (B4) Recent Irin Reduction in Tilled Sils (C6) Irin Delisits (B5) Inundation Visible in Aerial Imager (B7) Scarsel Vegetated Concale Surface (B8) Other (Exclain in Remarks) eld Observations: urface Water Present Yes X N Delit (incles): ater Table Present Yes X N Delit (incles): ater	YDROLOGY etland Hydrology Indicators: imar□Indicat⊡rs (minimum □□ne is re□uired⊡c□e _Sur[ace Water (A1)	Water-Stained Lea⊡es (B9)		<u>Sec</u>	ndar□Indicat⊡rs (minimum □:t□□ re⊡uired) Surīace Sūl Crac⊡s (B6) ⊡ Drainage Patterns (B10)
Sediment Delisits (B2) Oxidiled Rillseres in Liling Rits (C3) Drift Delisits (B3) Algal Mat Ir Crust (B4) Recent Ir Reductin in Tilled Sils (C6) Ir Delisits (B5) In Muc Surface (C7) Inundatin Visible in Aerial Imager (B7) Solarsel Vegetated Cincale Surface (B8) Other (Exclain in Remarks) eld Observations: urface Water Present Yes X N Delic (incles): ater Table	YDROLOGY etland Hydrology Indicators: imar□Indicat⊡rs (minimum □□ne is re□uired⊡c□eSur⊡ace Water (A1)Hig□Water Ta□e (A2)	Water-Stained Lea⊡es (B9)A□uatic Fauna (B13)		<u>Sec</u>	ndar□Indicat⊡rs (minimum ⊡t⊡⊡ re⊡uired) Surïace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2)
Algal Mat □ Crust (B4) Ir□ De□sits (B5) Ir□ De□sits (B5) Ir□ De□sits (B5) Ir□ Muc□ Suriace (C7) Inundati□ Visi□e □ Aerial Imager□(B7) S□ arsel□ Vegetated C□nca□e Suriace (B8) Ot□er (Ex□ain in Remar□s) eld Observations: Ir□ Acroe Water Present□ Yes N□ X De□t□ (inc□es): Intarace Water Present□ Yes X N□ De□t□ (inc□es): Intarati□ Present□ Yes X N□ De□t□ (inc□es): Intarat	YDROLOGY etland Hydrology Indicators: imar□Indicat⊡rs (minimum □□ne is re□uired□c□e Surſace Water (A1) Hig□Water Ta□e (A2) C Saturati□n (A3)	Water-Stained Lea es (B9) A uatic Fauna (B13) True A uatic Plants (B14)		<u>Sec</u>	ndar□Indicat⊡rs (minimum ⊡t⊡⊡ re⊡uired) Surïace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2)
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	Tetland Hydrology Indicators: rimar Indicat rs (minimum re is reuired re surface Water (A1) Hig Water Tale (A2) K Saturati (A3) Water Mar (B1) Sediment De sits (B2) Drift De sits (B3) Algal Mat rours (B4) Ir no De sits (B5) Inundati visile no Aerial Imager (B7) Sarsel vegetated Concare Surface (B8) Ield Observations: Urrace Water Present yes attention present yes xecond yes yes yes attention present yes xecond yes yes yes xecond yes yes xecond yes	Water-Stained Lea es (B9) A Luatic Fauna (B13) True A Luatic Plants (B14) H Lor gen Sulfide Od (C1) Oxidired Richers en Licher Reduced Iron (C4) Recent Iron Reducction in Tiller Ton Muc Surface (C7) Gauge or Well Data (D9) Otter (Extain in Remarts) No X Detto (incles): No Detto (incles): 16 Detto (incles):	4) d S⊡ls (C6)	Sec 'X	ndar□Indicat⊡s (minimum □t□□ re□uired) Surace S□l Crac□s (B6) □ Drainage Patterns (B10) □ Dr∃Seas□n Water Ta□e (C2) Cra□□s□Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □ Stressed Plants (D1) Ge□m□□□□c P□siti□n (D2) FAC-Neutral Test (D5)
emar : Wetland hydrology criterion is met. Shallow marsh with a long hydroperiod. *Wetland supports baseflow to a tributary to Ryan Creek	YDROLOGY etland Hydrology Indicators: imar□Indicat⊡rs (minimum □□ne is re□uired⊡c⊡e Surīace Water (A1) Hig□Water Ta⊡e (A2) (Saturati□n (A3) Water Mar⊡s (B1) Sediment De□sits (B2) Dri⊞De□sits (B3) Algal Mat □r Crust (B4) Ir□n De□sits (B5) Inundati□n Visi□e □n Aerial Imager□(B7) S□arse□Vegetated C□nca□e Surīace (B8) eld Observations: urīace Water Present□ Yes ater Ta□e Present□ Yes X aturati□n Present□ Yes X	Water-Stained Lea es (B9) Aluatic Fauna (B13) True Aluatic Plants (B14) Hidrigen Sulfide Odir (C1) Oxidired Riimsteres in Lic Presence treduced Irtn (C4 Recent Irtn Reductin in Tiller Tin Muci Surface (C7) Gauge ir Well Data (D9) Otier (Exilain in Remarts) No Detto (incles): No Detto (incles): 16 No Detto (incles): 17 Detto (incles): Presence treation in Remarts (D9) Otier (Exilain in Remarts)	4) d S⊡ls (C6) ————————————————————————————————————	Sec Tr	ndar□Indicat⊡s (minimum □t□□ re⊡uired) Surïace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□ Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□□r□□ic P□siti□n (D2) FAC-Neutral Test (D5)
emaris: Wetland hydrology criterion is met. Shallow marsh with a long hydroperiod. *Wetland supports baseflow to a tributary to Ryan Creek	PUROLOGY Strace Water (A1)	Water-Stained Lea es (B9) Aluatic Fauna (B13) True Aluatic Plants (B14) Hidrigen Sulfide Odir (C1) Oxidired Riimsteres in Lic Presence treduced Irtn (C4 Recent Irtn Reductin in Tiller Tin Muci Surface (C7) Gauge ir Well Data (D9) Otier (Exilain in Remarts) No Detto (incles): No Detto (incles): 16 No Detto (incles): 17 Detto (incles): Presence treation in Remarts (D9) Otier (Exilain in Remarts)	4) d S⊡ls (C6) ————————————————————————————————————	Sec Tr	ndar□Indicat⊡s (minimum □t□□ re⊡uired) Surïace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□ Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□□r□□ic P□siti□n (D2) FAC-Neutral Test (D5)
	PUROLOGY Petland Hydrology Indicators: mar Indicattrs (minimum □ne is re uired □ce Surface Water (A1) Hig Water Ta□e (A2) Saturati n (A3) Water Mar s (B1) Sediment De sits (B2) Drift De sits (B3) Algal Mat □ Crust (B4) Ir□n De sits (B5) Inundati n Visi□e n Aerial Imager (B7) S□arsel Vegetated C□nca□e Surface (B8) Pet Observations: rface Water Present Yes ater Ta□e Present Yes Attrati n Present Yes Attrati n Present Yes Attrati n Present Yes Attrati n Present Nes Yes Attration Nes Yes A	Water-Stained Lea es (B9) Aluatic Fauna (B13) True Aluatic Plants (B14) Hidrigen Sulfide Odir (C1) Oxidired Riimsteres in Lic Presence treduced Irtn (C4 Recent Irtn Reductin in Tiller Tin Muci Surface (C7) Gauge ir Well Data (D9) Otier (Exilain in Remarts) No Detto (incles): No Detto (incles): 16 No Detto (incles): 17 Detto (incles): Presence treation in Remarts (D9) Otier (Exilain in Remarts)	4) d S⊡ls (C6) ————————————————————————————————————	Sec Tr	ndar□Indicat⊡s (minimum □t□□ re⊡uired) Surïace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□ Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□□r□□ic P□siti□n (D2) FAC-Neutral Test (D5)

Pr⊡ectiSite: Loom	is Road Parcels			Cit⊡C□	unt⊡ Milwaukee	s	Sam⊟ing Date: October 30), 2014
A□□icantɪO□ner:	Bear Developm	ent, LLC			State:	WI	Sam⊡ing P⊡r	nt: T-14 DP-29 UPL
In⊑estigat⊡r(s):	Tina M. Myers,	PWS & Nancy Wilson		S	ecti⊡n, T⊡□ns⊡□, Rai	nge:	Section 30, T5N R21E	
Land⊡rm (⊡llsl⊡e, t	errace, etc.):	slight hillIslope		L⊡cal relie□	[(c⊡nca⊡e, c⊡n⊡ex, n⊡	⊡ne): s	slightly convex	
SI□□e (□): 2-3 %		Lat: See Figure 2	L	ng: See Figure 2			Datum: See Figure	2
S⊡l Ma□ Unit Name:		Morley silt loam	2-6% slopes (MzdB), Nor	n-hydric	WV	VI Classi∄	icati⊡n: ı	none
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t	⊑e site t⊡ical ⊞r t⊡s time □	□ear□	Yes_	X N□	((i⊡n□, ex⊡ain in Remar⊡s)	
Are Vegetati⊡n	<u>*Y</u> S⊡l	N _ □r H □dr □ □g□	N _signi∄cantl□distur	⊒ed □	Are "N⊡rmal Circums	stances" □r	resent□ Ye	es N□_X
Are Vegetati⊡n	N S⊡I	N □r H□dr□□□g□	N naturall □ □r □□lema	ıtic□	(i⊡needed, ex⊡ain an	า□ans□ers	s in Remar⊡s)	
CUMMARY OF	FINIDINGS	Attack site was also					····	
SUMMARTOF	FINDINGS	Attach site map sho			ansects, import	ant reat	tures, etc.	
H⊡dr⊡⊡⊡tic Vegetati	□n Present□	Yes	N□ <u>X</u>		ls t⊡e Sam⊡ed Area			
H⊡dric S⊡l Present□		Yes			□it⊡in a Wetland□		Yes	N□ X
Wetland H⊡dr⊒⊡g□P	resent□	Yes	N□ <u>X</u>		I□⊡es, □⊡ti⊡nal □etlan	nd site ID:	N/A	
Remar⊑s:	*Active corn fie	ld - corn is healthy, no cro	p stress	<u></u>				
		,,	•					
VEGETATION -	Use scienti∄c	names ⊞r □ants.					Sam⊡ing P⊡nt:	T-14 DP-29 UPL
		A⊡s⊡ute □	D⊡minant Indicat		Dominance Te	est Works	heet:	
Tree Stratum (PI⊡t si	⊑e: 30' R) <u>C⊟⊡er</u>	S⊡ecies Status	<u>></u>	Num⊡er □□D⊡m			
1. <i>n/a</i>					T⊑at Are OBL, I			(A)
2.				_				_('')
3.				_	T⊡tal Num⊡er □	⊒D⊡minar	nt	
4.					S⊑ecies Acr⊑ss	s All Strata	a: <u>1</u>	(B)
5				—	D (==D=			
7				—	Percent □□D□m T□at Are OBL, I			(AIB)
· · · · · · · · · · · · · · · · · · ·	_	=======================================	_tal C□⊑er	-	TEAT/110 OBE, I	17.011, 🗆	1710.	_(/(12)
					Prevalence Inc	dex Works	sheet:	
						al □ C⊡⊑er		<u> ti </u>
Colling Court Ctrotus	m /DI⊏tai⊏a.	4EID \			OBL s⊡ecies	_	x 1 =	
Sa ling S ru Stratu 1. <i>n/a</i>	III (PILL SILE.	15'R)			FACW s⊒ecies FAC s⊒ecies	-	x 2 = x 3 =	
2.				_	FACU s⊡ecies	_	x 4 =	
3.					UPL s⊡ecies	_	x 5 =	
4.					C⊒umn T⊡tals:	: <u> </u>	(A)	(B)
				—	D = 1		D-1	
7				_	Pre∟alend	ce Index E	B 🔼 =	<u></u>
'` 		 -	_tal C□⊑er	— F	Hydrophytic V	egetation	Indicators:	
							t ⊞r H⊡dr⊒⊒⊒tic Vegetati⊡r	1
							e Test is □50□	
Her□ Stratum (Pl⊑t si	⊡e: 5'R	1					e Index is ≤ 3.0 ¹ ical Ada⊡tati⊡ns¹ (Pr⊡ide s	outing
1. Zea mays	Le. JK		Y UPL			U	lemar⊑s ⊡r ⊡n se⊑arate s⊡e	•
2.				_			ic H⊡dr□□□□tic Vegetati⊡n ¹ (
3.					<u> </u>			
4					1		10.0 1001.00	
5. 6.							and □etland □⊑dr□□g□mus ır□ed □r □r□□lematic.	SI
7.					Le 🗆 esent, un	iiess uistui	illed in inclination.	
8.	-							
				—				
11. 12.				-				
13.				_				
14.								
		75% =	tal C⊟er	_				
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R)						
1. <i>n/a</i>								
2					Hodeb-d			
3. 4	-				Hydrophytic Vegetation			
*-	-		T⊑tal C⊟⊑er	-	Present?		Yes N	lo X
D = " · · ·								
,		☐r ☐n a se⊡arate s⊡eet.) ot met. No crop stress ob	served					
, a. op., y iio vogeta	0	2 110 0/0p 311635 0b						

SOIL T-14 DP-29 UPL Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features C□□r (m⊡st) (inc⊑es) C□□r (m□st) L □c² Texture Remar⊡s 0-15 10YR 3/2 100% silt loam compacted from farm equipment 15-24 10YR 5/2 60% 10YR 5/6 40% si cl loam ² L⊡cati⊡n: PL=<u>P⊡re Lining, M=Matrix</u> T⊡e: C=C ncentrati n, D=De leti n, RM=Reduced Matrix, CS=C need r C lated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: C□ast Prairie Red□x (A16) (LRR,K,L,R) Sand □ Gle □ed Matrix (S4) Hist□s ☐ (A1) Histic E i □ed n (A2) Sand □ Red □x (S5) Dar□Surace (S7) (LRR,K,L) Blac□Histic (A3) Stri □□ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) Ir⊡n-Manganese Masses (F12) (LRR,K,L,R) H⊑dr⊑gen Sultide (A4) L am Muc Mineral (F1) Ver□S□all□□ Dar□Surace (TF12) Stratified La ers (A5) L□am□ Gle □ed Matrix (F2) 2 cm Muc (A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red □x Dar □ Sur ace (F6) T⊑c□Dar□Surace (A12) De⊟eted Dar□Surace (F7) Red □x De □ressi □ns (F8) ³ Indicat rs □□□dr□□□tic e egetati n and □etland $\Box \Box dr \Box \Box g \Box must \ \Box e \ \Box resent, \ unless \ distur \Box ed \ \Box r$ □r□□lematic. Restrictive Layer (if observed): T⊡e: none De □t□ (inc □es): n/a **Hydric Soil Present?** Remar s: Does not meet hydric soil criterion. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar_Indicat_rs (minimum __t_ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re ⊑uired □c □ec □ all t □at a □□□ □) Sur ace S il Crac (B6) Sur ace Water (A1) Water-Stained Lea es (B9) Drainage Patterns (B10) Hig □ Water Ta □e (A2) A Tuatic Fauna (B13) Dr □-Seas □n Water Ta □e (C2) Saturati n (A3) True A Luatic Plants (B14) Cra is Burr s (C8) Water Mar (B1) H⊡dr⊡gen Sulíide Od⊡r (C1) Saturati⊡n Visi⊡e ⊡n Aerial Imager□(C9) Oxidi ed Risseres in Liting Rots (C3) Stunted □r Stressed Plants (D1) Sediment De □ sits (B2) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge lm lr llic P lsiti ln (D2) Algal Mat □r Crust (B4) Recent Ir n Reductin in Tilled Sils (C6) FAC-Neutral Test (D5) T⊑in Muc□Sur ace (C7) Ir n De □sits (B5) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) S□arsel□Vegetated C□nca□e Sur□ace (B8) Ot⊡er (Ex⊡ain in Remar⊡s) Field Observations: Sur⊡ace Water Present□ Yes De □t□ (inc □es): Water Ta le Present ⊓ NΠ Х De t (inc es): Yes Saturati n Present □ Yes $N\square$ Х De It ☐ (inc ☐es): Wetland Hydrology Present? Yes_ No X (includes ca⊡llar□ ringe) Descri⊡e Rec⊡rded Data (stream gauge, m⊡nit⊡ring □ell, aerial □□□t⊡s, □re⊡⊡us ins□ecti⊡ns), i⊡a ⊡aila ⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides

Wetland hydrology criterion is not met. No indication of consistent wetness on FSA crop slides or aerials.

Remar⊡s:

Microsophic Time More PWS Name More PWS Name More Mo	Pr⊡ectiSite: Loomis Road Parcels				am⊟ing Date: October 30, 2014
Land-Limit Child Limit Note (1985) See Figure 2 See Figure 2	A□□licantiO□ner: Bear Developme	ent, LLC		State: WI	Sam⊡ing P⊡nt: T-14 DP-30 WTD
State Stat	In ⊑estigat ⊑r(s): <u>Tina M. Myers, P</u>	WS & Nancy Wilson		Secti⊡n, T⊡ns⊡, Range:	Section 30, T5N R21E
S.J. Mar. WWN Classification none none more more work classed time more more more more work classed time more more work classed more more work classed more more work classed more more work classed more mor	Land⊞rm (⊑illsI⊐⊒e, terrace, etc.):	wetland depression	L	cal relie⊑(c⊡nca⊡e, c⊡n⊡ex, n⊡ne): c	concave
Ave climate Cuttle Cu	SI□e (□): 0%	Lat: See Figure 2	L⊡ng: See Fi	gure 2	Datum: See Figure 2
Ave climate Cuttle Cu	S⊡l Ma⊡Unit Name:	Morley silt loam 2-6% slopes	(MzdB), Non-hydric	WWI Classific	cati⊡n: none
Average Aver			(,,,,,,		
According to the control of the co			inanti - diatus-ad-		
SUMMARY OF FINDINGS Attach site map showing sampling point locations, transects, important features, etc.					
H. DC Standed Present Ves	Are vegetation N Soli	N IT HEATELEGE N natura	alltlematic_	(i∟needed, ex⊔ain an⊔ans⊔ers	in Remar∟s)
H. DC Standed Present Ves	SUMMARY OF FINDINGS A	Attach site man showing sam	nling point locatio	ons transects important feat	ures etc
Marke St Present Yes X N	COMMANT OF THE BINGS F	ttach site map showing sam	pinig point location	ons, transcots, important read	
Wetland if all a present Wetland is a large shallow marsh including areas of open water.	H⊡dr⊡⊟⊒tic Vegetati□n Present□	YesXN□		ls t⊡e Sam⊡ed Area	
Remark Wetland is a large shallow marsh including areas of open water.	H⊡dric S⊡l Present□	Yes X N□		□it⊡in a Wetland□	YesX N□
Name	Wetland H⊑dr⊒⊑g□Present□	Yes X N□]	I⊟⊑es, ⊟⊏ti⊑nal ⊟etland site ID:	W-10
Name					
A.S. Info Dominant Part Size Status	RemarLs: Wetland is a larg	je shallow marsh including areas of o	pen water.		
A.S. Info Dominant Part Size Status					
A.S. Info Dominant Part Size Status	VEOLITATION III and a standard				
Time Statum (PTI alie 30'R Cure Susces Status Dominance last worksheet:	VEGETATION - Use scientilic n	names ⊞r ⊔ants.			Sam ling P int: T-14 DP-30 WTD
Inter-Stratum (P1 size = 30'R			Indicat⊡r	Dominance Test Worksh	neet:
1. n/a	Tree Stratum (PI⊡t si⊡e: 30'R) C⊡⊡er S⊡ecies	Status		
2					
Table Name To Diminant Scales Actual All Status A B			<u> </u>	T⊑at Are OBL, FACW, ⊑r	FAC: <u>4</u> (A)
Size Size Arriva All Strate: 4 (B)				THE LINE OF THE PERSON	
Percent Driment Sacies Tat Are OBL FACW, FAC: 100% (AB)	3		·		
	4			S_ecies Aci_ss Ali Strata.	4 (b)
Tital Are OBL, FACW, Ir FAC: 100% (AB)				Porcent D Diminant S De	oing
Prevalence Index Worksheet:	7				
Prevalence Index Worksheet: This Citer	'·-	= Tital Cilier		TEATAIR OBE, TAGW, E	1AC. (AB)
Title Citer Multi-Citer				Prevalence Index Works	sheet:
Salling Sinul Stratum (Pit site: 15R) 1. Corrus alba 20%					
Salling Struct Microscope 15/R					
Cornus alba 20%	Sa⊟ingเ\$⊡ru□ Stratum (Pl⊡t si⊡e:	15'R)			
2. Cornus racemosa 3.		20% Y	FACW	FAC s⊑ecies	
C:lum Tctals:	2. Cornus racemosa	20% Y	FAC	FACU s⊡ecies	
C:lum Tctals:	3.			UPL s⊡ecies	x 5 =
6. 7. 40% = Tital Citer	4.			C⊡umn T⊡tals:	(A) (B)
7.	5.			_	<u> </u>
Herr Stratum (PII size: 5'R	6.			Pre alence Index B	3/A = <u>n/a</u>
Raid Test II Hidrillic Vegetation	7.				-
Her Stratum (Pit sine: 5'R)	<u> </u>	40% = T⊡tal C□□er		Hydrophytic Vegetation	Indicators:
HerrStratum (Pit size: 5'R)					
Herri Stratum (Pit siz: 5'R)					
1. Carex stricts					· · · · · · · · · · · · · · · · · · ·
2					
3. Cornus alba 3% N FACW 4.					
1 Indicatins				Pr⊡lematio	; H⊡dr□□□⊡tic Vegetati⊡n' (Ex⊡ain)
5.		3%N	FACW		
6:				1, 1, 15, 15, 55511, 51	
7.					
8		, <u> </u>		_e ∟resent, uniess distur	Led Lr Lrllematic.
9.					
10. 11. 12. 13. 14. 73% = Tital Citer Hydrophytic Vegetation Present? Yes X No Remarcs: (Include interior is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far					
11.	40				
12.					
13					
14					
Tall Collet	-	,			
No	· · · ·	73% = Tital Cilier			
1. n/a 2.					
1. n/a 2.					
1. n/a 2.					
2. 3. 4. Hydrophytic Vegetation Present? Yes X No Remar:s: (Include Innumiers Iere In a selarate size) Hydrophytic vegetation criterion is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far	W□□d□Vine Stratum (PI□t si□e: 30'R)			
2. 3. 4. Hydrophytic Vegetation Present? Yes X No Remar:s: (Include Innumiers Iere In a selarate size) Hydrophytic vegetation criterion is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far					
3. Hydrophytic Vegetation Present? Yes X No Remar:s: (Include :::tinum:ers ::ere ::n a se:arate s::eet.) Hydrophytic vegetation criterion is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far	1. n/a				
4	2				
4. Vegetation Present? Yes X No Remar s: (Includet num ers ere r n a se arate s eet.) Hydrophytic vegetation criterion is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far	3		<u> </u>	Hydrophytic	
Remar⊑s: (Include □□□□□ num⊡ers □ere □r □n a se□arate s□eet.) Hydrophytic vegetation criterion is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far					
Hydrophytic vegetation criterion is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far		= T tal C er	_	Present?	Yes X No
Hydrophytic vegetation criterion is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far					
Hydrophytic vegetation criterion is met. Plant community is a small sedge meadow/ fresh(wet) meadow that is located in a small depression at the far					
	,	•			
		et. Plant community is a small sedge	meadow/ fresh(wet) m	eadow that is located in a small depre	ssion at the far

SOIL Samiling Pint: T-14 DP-30 WTD

nc⊡es) C□□r (m⊡ist)		C□□r (m⊡st)		<u>T⊡e¹</u>	<u>L</u> □c ²	Texture	Remar⊡s
0-8 10YR 2/1	100%		- 1			silt loam	
8-24 10YR 2/1	85%	10YR 5/1	10%	D	М	si cl loam	
		10YR 5/6	5%	С	М		
<u> </u>							
			-				
			-11				
							
	_	-					
		-					
⊡e: C=C⊡ncentrati⊡n, D=De⊟eti⊡n, RM=Re	duced Matrix, CS	=C□⊡ered ⊡r C⊡a	ted Sand Grain	ıs.	² L	L⊑cati⊡n: PL=P⊡re L	ining, M=Matrix
dric Soil Indicators:							Problematic Hydric Soils ³ :
Hist⊡s□ (A1)		Sand□Gle⊑ed Ma	atrix (S4)				Prairie Red⊡x (A16) (LRR,K,L,R)
Histic E⊡⊡ed⊡n (A2)		Sand □ Red □x (St					urace (S7) (LRR,K,L)
Blac□Histic (A3)		Stri □□ed Matrix (•				uc⊡ ⊡eat ⊡r ⊡eat (S3)(LRR,K,L)
H⊡dr⊡gen Sulıîde (A4)		L⊡am□Muc⊞ Mi	,				anganese Masses (F12)(LRR,K,L,R)
Strati⊡ed La⊡ers (A5)		L⊡am□Gle⊡ed M					⊒all□□ Dar□Sur⊡ace (TF12)
2 cm Muc□ (A10)		De⊟eted Matrix (Ot⊡er (Ex⊡ain in Remar⊡s)
De leted Bel □ Dar Surface (A11)		Red □x Dar □ Sur					
Tic Dar Surface (A12)		De⊟eted Dar⊟Sı					
Sand□Muc⊡Mineral (S1)		Red □x De □ressi	119 (LO)				
						³ Indicat⊡re □□□	_dr□□□⊒tic e⊑egetati⊡n and □etland
							□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
						□r□□lematic.	a decem, amoss distance d
estrictive Layer (if observed):							
T							
T⊞e: none							
Tille: none De⊡t□ (inc⊡es): n/a					Hydi	ric Soil Present?	Yes X No
De⊑t□ (inc⊑es): <u>n/a</u>					Hydi	ric Soil Present?	Yes X No
					Hydi	ric Soil Present?	Yes X No
De⊑t□ (inc⊑es):					Hydi	ric Soil Present?	Yes X No
De⊑t□ (inc⊑es):					Hydi	ric Soil Present?	Yes X No
De⊑t□ (inc⊑es): <u>n/a</u>					Hydi	ric Soil Present?	Yes <u>X</u> No
Delt (incles): n/a emarls: Hydric soil criterion is met.					Hydi	ric Soil Present?	Yes <u>X</u> No
De to (inc les): n/a emar ls: Hydric soil criterion is met. YDROLOGY					Hydi		
De to (incoes): n/a emaros: Hydric soil criterion is met. YDROLOGY Tetland Hydrology Indicators:					Hydi		dar⊡Indicat⊡rs (minimum ⊡t⊡□re⊡uired)
De to (incoes): n/a emaros: Hydric soil criterion is met. IYDROLOGY [etland Hydrology Indicators: rimaro Indicators (minimum one is required)		•			Hydi		dar⊡Indicat⊡rs (minimum ⊡t⊡ re⊡uired) Surĭace S⊡l Crac⊡s (B6)
De to (incoes): n/a emaros: Hydric soil criterion is met. IYDROLOGY //etland Hydrology Indicators: rimaro Indicators (minimum one is required)Surace Water (A1)	Х	Water-Stained Le	, ,		Hydi		lar□Indicat⊡rs (minimum □t□□re□uired) Surīace S⊡l Crac⊡s (B6) Drainage Patterns (B10)
De t (inc es): n/a emar : Hydric soil criterion is met. IYDROLOGY detland Hydrology Indicators: rimar Indicat rs (minimum = ne is re uired Sur ace Water (A1) K Hig Water Ta = (A2)	X	Water-Stained Le A⊡uatic Fauna (E	313)		Hydi		lar⊡Indicat⊡rs (minimum ⊡t□□re⊡uired) Surĭace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡Seas⊡n Water Ta⊡e (C2)
De t (inc es): n/a emar : Hydric soil criterion is met. HYDROLOGY Settland Hydrology Indicators: Surface Water (A1) Hig Water Ta (A2) Saturati (A3)	x	Water-Stained Le A⊡uatic Fauna (E True A⊡uatic Pla	313) nts (B14)		Hydi		dar Indicators (minimum otore uired) Suriace Soil Cracos (B6) Drainage Patterns (B10) Dro-Season Water Table (C2) Cradis Burros (C8)
De to (inc ces): n/a emar s: Hydric soil criterion is met. NYDROLOGY Vetland Hydrology Indicators: rimar Indicators (minimum one is required of the source water (A1) K Hig Water Tale (A2) K Saturation (A3) Water Mar s (B1)	x	Water-Stained Le A⊡uatic Fauna (E True A⊡uatic Plai H⊡dr⊡gen Sulíide	313) nts (B14) e Od⊡r (C1)		Hydr		lar□Indicat⊡rs (minimum □t□□ re□uired) Surʿace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡Seas⊡n Water Ta⊡e (C2) Cra⊡is□Burr□s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9)
Delta (incaes): n/a emaras: Hydric soil criterion is met. YDROLOGY detland Hydrology Indicators: rimara Indicatas (minimum to e is required) Surface Water (A1) C Higa Water Tale (A2) C Saturatia (A3) Water Maras (B1) Sediment Delasits (B2)	x	Water-Stained Le A⊡uatic Fauna (E True A⊡uatic Plai H⊡dr⊡gen Sulūde Oxidi⊡ed R⊡⊡si	313) nts (B14) e Od⊡r (C1) ⊡eres ⊡n Li⊡n	g R⊡ts (C3)	Hydr	<u>Sec⊡no</u>	lar□Indicat⊡rs (minimum □tt□□re□uired) Suriace S□l Cracြs (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1)
Principal (incipal): n/a Principal (incipal	x	Water-Stained Le A⊡uatic Fauna (E True A⊡uatic Plai H⊡dr⊡gen Sulüde Oxidi⊡ed R⊡⊡si Presence ⊡Red	313) nts (B14) e Od⊡r (C1) ⊡eres ⊡n Li⊡n uced Ir⊡n (C4)	. ,	Hydr	Second 	dar Indicat rs (minimum to recuired) Sur ace S rectance (B6) Drainage Patterns (B10) Dr Seas water Tale (C2) Cralis Burr (C8) Saturati visi en Aerial Imager (C9) Stunted rstressed Plants (D1) Gemres (Psitin (D2)
Delta (incles): n/a emaris: Hydric soil criterion is met. IYDROLOGY Tetland Hydrology Indicators: rimara Indicators (minimum line is required) Surface Water (A1) K Higa Water Tale (A2) K Saturation (A3) Water Maris (B1) Sediment Delisits (B2) Drift Delisits (B3) Algal Mat ir Crust (B4)	X	Water-Stained Le A□uatic Fauna (E True A□uatic Plai H□dr□gen Sulûde Oxidi□ed R□□□s Presence □□Red Recent Ir⊡n Red	313) nts (B14) e Od⊡r (C1) ⊡eres ⊡n Li⊡n uced Ir⊡n (C4) ucti⊡n in Tilled	. ,	Hydi	<u>Sec⊡no</u>	lar□Indicat⊡rs (minimum □tt□□re□uired) Suriace S□l Cracြs (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1)
Print Delisits (B3) Algal Mat Ir Crust (B4) Irin Delisits (B5) Print Delisits (B5) Print Delisits (B5) Print Delisits (B5) Print Delisits (B5)	_x	Water-Stained Le A⊡uatic Fauna (E True A⊡uatic Plai H⊡dr⊡gen Suliide Oxidi⊡ed R⊡⊡si Presence □□Redi Recent Ir⊡n Redu	313) Ints (B14) Ints (B14) Ints (B14) Ints (C1) Interes In Li⊡n Interes In Li⊡n Interes In Li⊡n Interes Inter	. ,	Hydi	Second 	dar Indicat rs (minimum to recuired) Sur ace S rectance (B6) Drainage Patterns (B10) Dr Seas water Tale (C2) Cralis Burr (C8) Saturati visi en Aerial Imager (C9) Stunted rstressed Plants (D1) Gemres (Psitin (D2)
Print Delisits (B2) Delic (incles): n/a Print Indicators	x	Water-Stained Le A Luatic Fauna (E True A Luatic Plai H Grigen Sulfide Oxidi Led R Licus Presence Red Recent Ir La Red Gauge R Well Di Gauge Well Di	a13) Ints (B14) Ints (B14) Od⊡r (C1) Interes In Li⊡n Interes In C(C4) Interes Interes Interes	. ,	Hydi	Second 	dar Indicat rs (minimum to recuired) Sur ace S rectance (B6) Drainage Patterns (B10) Dr Seas water Tale (C2) Cralis Burr (C8) Saturati visi en Aerial Imager (C9) Stunted rstressed Plants (D1) Gemres (Psitin (D2)
Print Delisits (B3) Algal Mat Ir Crust (B4) Irin Delisits (B5) Print Delisits (B5) Print Delisits (B5) Print Delisits (B5)	x	Water-Stained Le A⊡uatic Fauna (E True A⊡uatic Plai H⊡dr⊡gen Suliide Oxidi⊡ed R⊡⊡si Presence □□Redi Recent Ir⊡n Redu	a13) Ints (B14) Ints (B14) Od⊡r (C1) Interes In Li⊡n Interes In C(C4) Interes Interes Interes	. ,	Hydi	Second 	dar Indicat rs (minimum to recuired) Sur ace S rectance (B6) Drainage Patterns (B10) Dr Seas water Tale (C2) Cralis Burr (C8) Saturati visi en Aerial Imager (C9) Stunted rstressed Plants (D1) Gemres (Psitin (D2)
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Principle (and the content of the co	x	Water-Stained Le A□uatic Fauna (E True A□uatic Plai H□dr□gen Sulfide Oxidi⊡ed R□□de Presence □□Red Recent Ir□n Redt T□n Muc□Surfac Gauge □r Well De Ot□er (Ex□ain in	and the state of t	. ,	Hydr	Second 	dar Indicat rs (minimum to recuired) Sur ace S rectance (B6) Drainage Patterns (B10) Dr Seas water Tale (C2) Cralis Burr (C8) Saturati visi en Aerial Imager (C9) Stunted rstressed Plants (D1) Gemres (Psitin (D2)
Principal (incles): In/a Principal (incles)	x	Water-Stained Le A□uatic Fauna (E True A□uatic Plai H□dr□gen Sulfide Oxidi□ed R□□se Presence □Red Recent Ir□n Red T□in Muc□Surfar Gauge □r Well Da Ot□er (Ex□ain in	nts (B14) c Od⊡r (C1) □cres □ Li⊡n uced Ir □ (C4) ucti□n in Tilled ce (C7) ata (D9) Remar□s)	. ,	Hydr	Second 	dar Indicat rs (minimum to recuired) Sur ace S rectance (B6) Drainage Patterns (B10) Dr Seas water Tale (C2) Cralis Burr (C8) Saturati visi en Aerial Imager (C9) Stunted rstressed Plants (D1) Gemres (Psitin (D2)
Properties: In/a Properties: Hydric soil criterion is met. Propert	X	Water-Stained Le A□uatic Fauna (E True A□uatic Plai H□dr□gen Sulfide Oxidi⊡ed R□□de Presence □□Red Recent Ir□n Redt T□n Muc□Surfac Gauge □r Well De Ot□er (Ex□ain in	nts (B14) nts (B14) c Od r (C1) crees ch Lidin uced Ir n (C4) uctin in Tilled ce (C7) ata (D9) Remar s)	. ,	Hydi	Second X X	dar Indicat rs (minimum to recuired) Sur ace S rectance (B6) Drainage Patterns (B10) Dr Seas water Tale (C2) Cralis Burr (C8) Saturati visi en Aerial Imager (C9) Stunted rstressed Plants (D1) Gemres (Psitin (D2)
Permar S: Hydric soil criterion is met. Hydric soil criterion is met.	X	Water-Stained Le A Luatic Fauna (E True A Luatic Plai H Lor Legen Sulfide Oxidiced R Lices Presence Legen Recent Ir Legen Red T Legen Well Da Ot Legen (Ex Lain in De Legen (inc Les) De Legen (inc Les)	nts (B14) nts (B14) c Od r (C1) crees ch Lidin uced Ir n (C4) uctin in Tilled ce (C7) ata (D9) Remar s)	. ,	Hydi	Second X X	lar□Indicat□rs (minimum □t□□re□uired) Surīace S□l Crac□s (B6) Drainage Patterns (B10) Dr□Seas□n Water Ta□le (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□le □n Aerial Imager□(C9) Stunted □ Stressed Plants (D1) Ge□m□□□c P□sit□n (D2) FAC-Neutral Test (D5)
De to (incoes): n/a emarcs: Hydric soil criterion is met. NYDROLOGY Vetland Hydrology Indicators: rimarolndicators (minimum one is required) Surface Water (A1) K. Higowater Taoe (A2) X. Saturation (A3) Water Marcs (B1) Sediment Deosits (B2) Drift Deosits (B3) Algal Mator Crust (B4) Iron Deosits (B5) Inundation Visicle on Aerial Imagero (B7) Soarselovegetated Concare Surface (B8) vetaled Observations: urface Water Presento Yes Vetale Taole Presento Yes	N X X N N X N N N N N N N N N N N N N N	Water-Stained Le A Luatic Fauna (E True A Luatic Plai H Lor Legen Sulfide Oxidiced R Lices Presence Lee Recent Ir Legen Red T Legen Well Do Ot Legen (Ex Lain in De Legen (inc Les) De Legen (inc Les)	nts (B14) nts (B14) c Od r (C1) reres r Lidin uced Ir n (C4) uctin in rilled re (C7) ata (D9) Remar s) : : : : : : : : : : : : : : : : : :	S ils (C6)	Hydi	Second X X	lar□Indicat□rs (minimum □t□□re□uired) Surīace S□l Crac□s (B6) Drainage Patterns (B10) Dr□Seas□n Water Ta□le (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□le □n Aerial Imager□(C9) Stunted □ Stressed Plants (D1) Ge□m□□□c P□sit□n (D2) FAC-Neutral Test (D5)
Properties: Inda Properties: Inda Properties: Hydric soil criterion is met. Properties: Hydric soil criterio	X	Water-Stained Le A Luatic Fauna (E True A Luatic Plai H Lor Legen Sulfide Oxidiced R Lices Presence Laces Recent Ir Laces To Laces De Laces	nts (B14) nts (B14) oddr (C1) crees in Lidin uced Irin (C4) uctdin in Tilled ce (C7) ata (D9) Remaris) : : : : : : : : : : : : : : : : : :	S⊡ls (C6)	_	Sec Inc	dar Indicat rs (minimum re re uired) Sur ace S re rac s (B6) Drainage Patterns (B10) Dr Seas r Water Ta re (C2) Cra s rules (C8) Saturati r Visi r rac Aerial Imager (C9) Stunted r Stressed Plants (D1) Ge re re rac Provide (D2) FAC-Neutral Test (D5)
Properties (included in the control of the control	N X N NO NO Pring Cell, aerial Chap (Figure 2), N	Water-Stained Le A Luatic Fauna (E True A Luatic Plan H Lor	ata) ants (B14) ants (C1) ants (C1	S⊡is (C6) a⊡aila⊟e: ial Maps fron	_	Sec Inc	dar Indicaters (minimum etereuired) Surace Sell Craces (B6) Drainage Patterns (B10) Dreseasen Water Tale (C2) Craese Burres (C8) Saturation Viside en Aerial Imager (C9) Stunted er Stressed Plants (D1) Gemere Pesition (D2) FAC-Neutral Test (D5)
Properties to the properties of the properties o	N X N X N O A A A A A A A A A A A A A A A A A A	Water-Stained Le A Luatic Fauna (E True A Luatic Plan H Lor	ata) ants (B14) ants (C1) ants (C1	S⊡is (C6) a⊡aila⊟e: ial Maps fron	_	Sec Inc	dar Indicat rs (minimum re re uired) Sur ace S re rac s (B6) Drainage Patterns (B10) Dr Seas r Water Ta re (C2) Cra s rules (C8) Saturati r Visi r rac Aerial Imager (C9) Stunted r Stressed Plants (D1) Ge re re rac Provide (D2) FAC-Neutral Test (D5)

Pr⊡ectiSite: Loomi	is Road Parcels				Cit⊡C□unt□ Milwaukee	Sam⊡ing Date: October 30, 2014
A□□licanti©□ner:	Bear Developme	ent, LLC			State:	WI Sam⊡ing P⊡nt: T-15 DP-31 UPL
In⊡estigat⊡r(s):	Heather Patti, P	ws			Secti⊡n, T□□ns⊡□, Range:	Section 30, T5N R21E
Land⊞rm (⊑illsI⊟e, te	errace, etc.): s	light hillIslope		L	cal relie⊑(c⊑nca⊑e, c⊡n⊑ex, n⊡ne)	slightly convex
SI□□e (□): 10-15%	%	Lat: See Figure 2		L⊡ng: See F	igure 2	Datum: See Figure 2
S⊡l Ma□ Unit Name:		Morley silt loam	2-6% slopes (M	IzdB), Non-hydric	WWIC	Classiticati⊡n: none
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡s time □	□⊑ear□		Yes X N□	(i⊡n□, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>*Y</u> S⊡I	N □r H⊡dr□□□g□	N _signi∄ca	ntl□distur⊡ed□	Are "N⊡rmal Circumstanc	ces"
Are Vegetati⊡n	<u>N</u> S⊡I		N naturall	□ □r□□lematic□	(i⊡needed, ex⊡ain an⊡ar	ns⊟ers in Remar⊡s)
CUMMARY OF F	TINDINGS	\				t factures at
SUMMARY OF F	FINDINGS A	Attach site map sho			ons, transects, important	reatures, etc.
H⊡dr□□□tic Vegetati□	n Present□	Yes	-	Х	ls t⊡e Sam⊡ed Area	
H⊡dric S⊡l Present□		Yes	N□	X	□it⊡in a Wetland□	Yes N□X
Wetland H⊡dr⊒⊡g□Pr	resent□	Yes	N□ _	Х	I□⊡es, □□ti□nal □etland si	ite ID: N/A
Remar⊡s:	This is an old fie	eld community along a dr	ainage ditch. N	None of the 3 wetlan	nd criteria are present.	
		,	g			
VEGETATION -	Use scienti∄c r	names ⊞r □ants.				Sam⊒ing P⊑int: T-15 DP-31 UPL
		A⊡s⊡ute □	D⊡minant	Indicat⊡r	Dominance Test V	Vorksheet:
Tree Stratum (PI⊡t si□	e: 30'R)	C□⊑er	S⊡ecies	Status	Num⊡er □□D⊡minar	
1. Populus tremule	oides	10%	Υ	FAC	T⊑at Are OBL, FAC	
2.		1070	<u> </u>		. Mirio Obe, I Ao	
3.					T⊡tal Num⊡er □⊡D□	_minant
4.					S⊡ecies Acr⊡ss All	Strata: 4 (B)
5						
6					Percent □□D□minar T□at Are OBL, FAC	
/·		10% =	T⊡tal C□⊑er		TEAL AIR OBE, TAO	<u>30 %</u> (A⊞)
					Prevalence Index	Worksheet:
						C Multi Multi
	(B) !-	\			OBL s⊡ecies	0 x 1 = 0
Sa ling S ru Stratun 1. <i>n/a</i>		<u>15'R)</u>			FACW s⊡ecies FAC s⊡ecies	0 x 2 = 0 53 x 3 = 159
1. <u>/////</u> 2.					FAC s⊡ecies	<u>53</u> x 3 = <u>159</u> 45 x 4 = 180
					UPL s⊑ecies	30 x 5 = 150
					C⊟umn T⊡tals:	128 (A) 489 (B)
5						
6					Pre⊡alence In	ndex B∄ = 3.8
/·		0% =	T⊡tal C□⊑er		Hydrophytic Vege	tation Indicators:
						d Test ⊞r H⊑dr⊒⊒⊒tic Vegetati⊒n
					D⊡mi	inance Test is □50□
						alence Index is ≤ 3.0 ¹
Her□ Stratum (PI□t si□	_e: 5'R		v	E40		□□□gical Ada⊡tati⊡ns¹ (Pr□□ide su□□□rting
Poa pratensis Solidago canada	lonsis	<u>50%</u> 40%	Y	FACU		ta in Remar⊡s ⊡r ⊡n se⊡arate s⊡eet) Iematic H⊡dr⊡⊐⊡tic Vegetati⊡¹ (Ex⊡ain)
3. Daucus carota	erisis	30%	<u>'</u>	UPL		ematerral (Exham)
4. Taraxacum offic	cinale	5%	N	FACU		
5. Geum canadens	se	3%	N	FAC		ic s⊡l and □etland □⊡dr⊡⊡g□must
6					□e □resent, unless	s distur⊡ed ⊡r ⊡r⊡⊒ematic.
7. 8.						
4.4						
12.						
13.						
14		128% =	Γ⊑tal C⊟⊑er			
W□□d□Vine Stratum ((Pl⊡tsi⊡e: 30'R	<u> </u>				
1. n/a						
2.		 -				
3.					Hydrophytic	_
4.					Vegetation	
			= T⊡tal C□⊡er		Present?	Yes No _X
Remar⊑s: (Include □□	⊡t□ num⊡ers ⊡ere	r ⊑n a se⊑arate s⊑eet.)				
Hydrophytic vegetat						

SOIL T-15 DP-31 UPL Sam ☐ing P ☐nt: Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) De⊡t□ Matrix Red □x Features C□□r (m⊡st) (inc⊑es) C□□r (m□st) L □c² Texture Remar⊡s 0-14 10YR 3/2 100% silt loam 14-24 10YR 5/2 60% 10YR 5/6 40% si cl loam ² L⊡cati⊡n: PL=P⊡re Lining, M=Matrix T⊡e: C=C ncentrati n, D=De leti n, RM=Reduced Matrix, CS=C need r C lated Sand Grains. Hydric Soil Indicators: Indicators for Problematic Hydric Soils³: Sand □ Gle □ed Matrix (S4) C ast Prairie Red x (A16) (LRR.K.L.R) Hist□s ☐ (A1) Histic E i □ed n (A2) Sand □ Red □x (S5) Dar□Surace (S7) (LRR,K,L) Blac□Histic (A3) Stri □□ed Matrix (S6) 5 cm muc □ □eat □r □eat (S3)(LRR,K,L) Ir⊡n-Manganese Masses (F12) (LRR,K,L,R) H⊑dr⊑gen Sultide (A4) L am Muc Mineral (F1) Ver□S□all□□ Dar□Surāce (TF12) Stratified La ers (A5) L□am□ Gle □ed Matrix (F2) 2 cm Muc (A10) De □eted Matrix (F3) Ot⊡er (Ex⊡ain in Remar⊡s) De leted Bel □ Dar Sur ace (A11) Red □x Dar □ Sur ace (F6) T⊑c□Dar□Surace (A12) De⊟eted Dar□Surace (F7) Red □x De □ressi □ns (F8) ³ Indicat rs □□□dr□□□tic e egetati n and □etland $\Box \Box dr \Box \Box g \Box must \ \Box e \ \Box resent, \ unless \ distur \Box ed \ \Box r$ □r□□lematic. Restrictive Layer (if observed): T⊡e: none De t (inc es): n/a **Hydric Soil Present?** Remar s: Does not meet hydric soil criterion. **HYDROLOGY** Wetland Hydrology Indicators: Sec_ndar_Indicat_rs (minimum __t_ re_uired) Primar□Indicat⊡rs (minimum □□□ne is re □uired□c□ec□all t□at a □□□) Sur ace S il Crac (B6) Sur ace Water (A1) Water-Stained Lea es (B9) Drainage Patterns (B10) Hig □ Water Ta □e (A2) A Tuatic Fauna (B13) Dr □-Seas □n Water Ta □e (C2) Saturati n (A3) True A Luatic Plants (B14) Cra is Burr s (C8) Water Mar (B1) H⊡dr⊡gen Sulíide Od⊡r (C1) Saturati⊡n Visi⊡e ⊡n Aerial Imager□(C9) Oxidi ed Risseres in Liting Rots (C3) Stunted □r Stressed Plants (D1) Sediment De □ sits (B2) Dri t De ⊡sits (B3) Presence □□Reduced Ir□n (C4) Ge lm lr llic P lsiti ln (D2) Algal Mat □r Crust (B4) Recent Ir n Reductin in Tilled Sils (C6) FAC-Neutral Test (D5) T⊑in Muc□Sur ace (C7) Ir n De □sits (B5) Inundati⊡n Visi⊡e ⊡n Aerial Imager□(B7) Gauge □r Well Data (D9) S□arsel□Vegetated C□nca□e Sur□ace (B8) Ot⊡er (Ex⊡ain in Remar⊡s) Field Observations: Sur⊡ace Water Present□ Yes De □t□ (inc □es): Water Ta le Present ⊓ NΠ Х De t (inc es): Yes Saturati⊡n Present□ Yes $N\square$ Х De It ☐ (inc ☐es): Wetland Hydrology Present? Yes_ No X (includes ca⊡llar□ ringe) Descri⊡e Rec⊡rded Data (stream gauge, m⊡nit⊡ring □ell, aerial □□□t⊡s, □re⊡⊡us ins□ecti⊡ns), i⊡a ⊡aila ⊡e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remar⊡s: Wetland hydrology criterion is not met.

Pr⊡ēctiSite: Loom	is Road Parcels			Cit⊡C	□unt□: Milwaukee		Sam⊒ing Date:	October 30, 201	4
A□□icantɪO□ner:	Bear Developme	ent, LLC			State:	WI	Sa	am⊟ing P⊡nt: T-	15 DP-32 WTD
In⊑estigat⊡r(s):	Heather Patti, PV	ws			Secti⊡n, T⊡□ns⊡□, Ra	lange:	Section 30, T5	N R21E	
Land⊞rm (⊑illsI⊟e, t	errace, etc.):	drainage ditch		L⊡cal relie	e⊑(c⊑nca⊑e, c⊡n⊑ex, r	n⊡ne):	concave		
SI⊡e (□): 0%		Lat: See Figure 2	L	□ng: See Figure 2		_	Datum:	See Figure 2	
S⊡l Ma□Unit Name:		Morley silt loam	2-6% slopes (MzdB), No	n-hydric	W	VWI Classi	icati⊡n:	none	
Are climatic □□□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡s time □	□□ear□	Yes	X No		(i⊡n□, ex⊟ain ir	n Remar⊡s)	
Are Vegetati⊡n	<u>N</u> S⊡I	_N_ □r H⊡dr□□g□	N _signi∄cantl□distu	r⊡ed□	Are "N⊡rmal Circum	nstances" ⊡r	resent□	Yes	X N□
Are Vegetati⊡n	N S⊡I	N ☐r H⊡dr□□g□	N naturall□ □r□□lem	ıatic□	(i⊡needed, ex⊒ain a	an□ans□ers	s in Remar⊡s)		
CUMMARY OF	EINDINGS /	\ttack site man she	wing compling no	int locations to		utant faat			
SUMMARTOR	FINDINGS F	Attach site map sho	wing sampling po	int locations, t	ransects, impor	tant leat	tures, etc.		
H⊡dr⊡□⊡tic Vegetati	□n Present□	Yes X			Is t⊡e Sam⊡ed Area	а			
H⊡dric S⊡l Present□		Yes X	N		□it⊡n a Wetland□		Yes	Х	N 🗆
Wetland H⊡dr□□g□P	resent□	Yes X	N		I⊡es, ⊡ti⊡nal □etla	and site ID:		W-11	
Remar⊡s:		le drainage ditch that red photographs in Appendi		ad embankment ar	nd also via a culvert	along W. L	₋oomis Rd. Ple	ase	
VEGETATION -	Use scienti∄c r	names ⊞r □ants.					Sam	□ing P⊡nt:	T-15 DP-32 WTD
		A⊡s⊡ute □	D⊡minant Indica		Dominance T	Test Works	heet:		
Tree Stratum (PI⊡t si	⊡e: 30'R) C⊟er	S⊡ecies Statu	ıs					
1. <u>n/a</u> 2.					Num⊡er □□D□ T⊡at Are OBL,			3 (A))
3.					T⊡tal Num⊡er	r □□D□minar	nt		
4.					S⊡ecies Acr⊡s	ss All Strata	a: .	3 (B)
6.					Percent □□D□r	iminant S⊡e	ecies		
7.					T⊡at Are OBL,	., FACW, 🗅	FAC:	100% (A	B)
		=	T⊡tal C⊡er	ļ					
					Prevalence In	ndex Works ∷tal □ C⊡er		Multi□□□	
					OBL s⊡ecies			x 1 =	
Sa⊟ingเ\$⊡ru⊟Stratu	m (PI⊡t si⊡e:	15'R)			FACW s⊡ecies	-		x 2 =	
1. Cornus alba		10%	Y FACW		FAC s⊡ecies	-		x 3 =	
2					FACU s □ecies	s <u>-</u>		x 4 =	
					UPL s⊡ecies C⊟umn T⊡tals	-		x 5 =	(B)
					Chumin Thats	s. <u>-</u>		(A)	(B)
					Pre⊡aler	nce Index E	B	n/a	
7		10% =	T⊡tal C⊡er		Hydrophytic \	Vegetation	Indicators:		
						_	t illir Hildrilliolitic	c Vegetati⊡n	
							e Test is □50□	· ·	
							e Index is ≤ 3.0 ¹		
Her□ Stratum (PI□t si			V 001					s¹ (Pr⊞ide su⊞i	rting
Typha x glauca Phalaris arundi		50% 30%	Y OBL Y FACW				temar⊑s ⊡r ⊡n so ic H⊡dr⊟⊒⊒tic \	e∟arate s∟eet) /egetati⊡n¹ (Ex⊟a	ain)
3. Epilobium colo		5%	N FACW			T ICITIQU	io i i di Lilia v	regetati Tr (EXII	aii i
4. Impatiens cape		5%	N FACW						
5.							and □etland □□		
6		<u> </u>			⊡e ⊡resent, u	unless distu	ır⊡ed ⊡r ⊡r⊡⊟en	natic.	
7. 8.		·							
_		· ——							
10.									
11.									
12.		<u> </u>							
13. 14.									
14.		90% =	T⊡tal C⊡er						
W□⊡d□Vine Stratum	/DIFteiFe: 201D	,							
VVIII VIIIE SUALUIII	III SILE. JUK								
1. n/a									
2.									
3		<u> </u>			Hydrophytic				
4		0%	= T⊡tal C⊡er		Vegetation Present?		Yes X	No	
		U 70			Fresents		169 V	No	_
		r	cattail-dominated drain	age ditch along W	. Loomis Rd.				

SOIL Samiling Pint: T-15 DP-32 WTD

	C□⊡r (m⊡st)		C⊟⊡r (m⊡st)		<u>T⊡e¹</u>	L □c ²	Texture	Remar⊡s
0-3	10YR 3/1	100%					silt loam	some small gravel present from runoff
3-8	10YR 3/1	85%	10YR 5/6	15%	C	М	si cl loam	
8-10*	10YR 5/3	80%	10YR 5/6	20%	С	М	clay	compacted
				- 1				
⊞e: C=C⊡ncentrati⊡n,	D=De ⊟eti⊡n, RM=Redu	ced Matrix, CS	=C□⊡ered ⊡r C⊡a	ted Sand Grain	S.	² I	L⊑cati⊡n: PL=P⊡re	Lining, M=Matrix
daia Cail Indiantana								ā
rdric Soil Indicators:			0 1=01 = 114	(0.4)				Problematic Hydric Soils ³ :
Hist⊡s⊡ (A1) Histic E⊡⊡ed⊡n (A2	\		Sand□Gle					Prairie Red⊡x (A16) (LRR,K,L,R) Sur⊡ace (S7) (LRR,K,L)
Blac Histic (A3))		Stri ==ed Matrix (\$,				nuc⊞ ≘eat ⊡r ⊑eat (S3)(LRR,K,L)
H⊡dr⊡gen Sulûde (A	4)		L⊑am□Muc⊞Mi	•				langanese Masses (F12) (LRR,K,L,R)
Stratiûed La⊡ers (A5	,		L□am□ Gle ⊑ed M	. ,				S⊡all □□ Dar□Sur⊡ace (TF12)
2 cm Muc□ (A10)			De⊟eted Matrix (Ot⊡er	(Ex⊡ain in Remar⊡s)
De □eted Bel □□ Dar	, ,		Red □x Dar □ Sur	. ,				
Tic Dar Surface			De □eted Dar □ Sı					
Sand□Muc□□Miner	ai (51)		Red □x De □ressi □	IIS (FO)				
							³ Indicat⊡rs □□	□□dr□□□□tic e□egetati□n and □etland
								t ⊑e ⊑resent, unless distur⊑ed ⊑r
							□r□⊟ematic.	,
T⊡e: compacte	ed clay & gravel					Hyd	ric Soil Present?	Yes X No
T⊡e: compacte De⊡t□ (inc⊡es): 10	ed clay & gravel	ence of grave	I and compacted	d clay. Hydric	soil criterior		ric Soil Present?	Yes <u>X</u> No
T⊡e: compacte De⊡t□ (inc⊡es): 10	ed clay & gravel	ence of grave	l and compacted	d clay. Hydric	soil criterior			Yes <u>X</u> No
T⊞e: compacte De⊑t⊟ (inc⊡es): 10 emar⊡s: Shovel re	ed clay & gravel	ence of grave	l and compacted	d clay. Hydric	soil criterion			Yes <u>X</u> No
TITE: compacte Delt (incles): 10 emar s: Shovel re	ed clay & gravel)" Ifusal at 10" due to pres	ence of grave	l and compacted	d clay. Hydric	soil criterior		t, however.	Yes X No
De the (incluse): 10 emarts: Shovel re	ed clay & gravel)" Ifusal at 10" due to pres			d clay. Hydric	soil criterior		t, however.	
T : compacte De : (inc : es): 10 emar : Shovel re	ed clay & gravel or Ifusal at 10" due to pres icators: numne is re_uired_c	⊑ec⊡all t⊡at a⊡			soil criterior		t, however.	ndar⊡Indicat⊡rs (minimum ⊡t⊡ re⊡uired) Surīāce S⊡l Crac⊡s (B6)
T : compacte De : (inc : es): 10 emar : Shovel re YDROLOGY etland Hydrology Indi imar Indicat : (minin _ Sur ace Water (A1) _ Hig Water Ta e (A	ed clay & gravel p" Ifusal at 10" due to pres icators: numne is re_uired_c	⊡ec∷all t⊡at a⊡ X	ac)	ea⊡es (B9)	soil criterior		t, however.	ndar□Indicat⊡rs (minimum □:t□□re□uired) Surĭace S⊡l Crac⊡s (B6)
T : compacte De : (inc : es): 10 emar : Shovel re IYDROLOGY fetland Hydrology Indirimar Indicat : s (minin	ed clay & gravel p" Ifusal at 10" due to pres icators: numne is re_uired_c	⊡ec⊡all t⊡at a⊡ X	□□) Water-Stained Le A⊡uatic Fauna (E True A⊡uatic Plai	ea⊑es (B9) 813) nts (B14)	soil criterion		t, however.	ndar□Indicat⊡rs (minimum □t□□re□uired) Sur[ace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□ Burr□s (C8)
T : compacte De : (inc : es): 10 emar : Shovel re IYDROLOGY //etland Hydrology Indirimar Indicat : (minim Sur ace Water (A1) Hig Water Ta e (A X Saturati : (A3) Water Mar : (B1)	ed clay & gravel " Ifusal at 10" due to pres icators: num —ne is re_uired_c[⊡ec⊡all t⊡at a⊡ X	□□) Water-Stained Le A⊡uatic Fauna (E True A⊡uatic Pla H⊡dr⊡gen Sulûde	ea Es (B9) 313) nts (B14) e Od r (C1)			t, however.	ndar□Indicat⊡rs (minimum □t□□re□uired) Surſace S⊡l Cracℂs (B6) Drainage Patterns (B10) Dr□Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9)
T □e: compacte De t (inc es): 10 emar s: Shovel re Shovel re State of the stat	ed clay & gravel " Ifusal at 10" due to pres icators: num —ne is re_uired_c[⊡ec⊡all t⊡at a⊡ X	□□) Water-Stained Le Auatic Fauna (E True Auatic Pla Hidrigen Suliide Oxidi⊑ed Rüiss	ea⊑es (B9) 313) nts (B14) Od⊡r (C1) ⊡eres ⊑n Li⊡nç			Secon	dar□Indicat⊡rs (minimum □t:□□re□uired) Surʿace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□Burr⊡s (C8) Saturati⊡n Visi⊡e ⊡n Aerial Imager□(C9) Stunted ⊡r Stressed Plants (D1)
Emar S: Shovel re De t (inc es): 10 Emar S: Shovel re Shovel re Support (inc es): 10 Emar S: Shovel re Support (inc es): 10 S	icators: num ===ne is re=uired===1.2)	Eec⊡all t⊡at a⊡ X	□□) Water-Stained Le A□uatic Fauna (E True A□uatic Plai H□dr□gen Sulfide Oxidl⊡ed R□□□□□□	eales (B9) 313) nts (B14) e Od⊡ (C1) ⊞eres ⊡ Li⊡n; uced Ir⊡n (C4)	g R⊡ts (C3)		Secon X	ndar□Indicat⊡s (minimum □t□□re□uired) Surace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas□n Water Ta□e (C2) Cra⊡s□ Burr□s (C8) Saturati□n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□c P□siti□n (D2)
TITE: compacte DeIt (inc es): 10 emar s: Shovel re Shovel re Shovel re Shovel re Surace Water (A1) Hig Water Tale (A X Saturatin (A3) Water Mar s (B1) Sediment De sits (B3) Algal Mat r Crust (B3)	icators: num ===ne is re=uired===1.2)	Eec⊡all t⊡at a⊡ X	□□) Water-Stained Le A□uatic Fauna (E True A□uatic Pi Guatic Fauna (E Coxidi⊡ed R□□□s! Presence □□Red Recent Ir□n Redu	sa⊡es (B9) 313) 313) b: Od⊡r (C1) ⊡eres ⊡ Li⊡n(uced Ir⊡n (C4) ucti⊡n in Tilled S	g R⊡ts (C3)		Secon	dar□Indicat⊡s (minimum □t□□re□uired) Surace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□ic P□siti□n (D2)
TIE: compacted Delta (incles): 10 PMOLOGY Tetland Hydrology Indicinar Indicators (minimum Indicators (mi	icators: num ===ne is re=uired===1.2)	Eec⊡all t⊡at a⊡ X	□□) Water-Stained Le A□uatic Fauna (E True A□uatic Plai H□dr□gen Sulfide Oxidl⊡ed R□□□□□□	ea⊑es (B9) §13) e Od⊡r (C1) □ eres ⊡n Li⊡nq uuced Ir⊡n (C4) uucti⊡n in Tilled S	g R⊡ts (C3)		Secon X	dar□Indicat⊡s (minimum □t□□re□uired) Surace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□ic P□siti□n (D2)
TITE: compacte Delta (incles): 10 maris: Shovel re YDROLOGY etland Hydrology Indi imara Indicatars (minin Suriace Water (A1) Higa Water Table (A C Saturatian (A3) Water Maris (B1) Sediment Delisits (B3) Algal Mat in Crust (to Infin Delisits (B5) Inundatian Visible in Includation Visible in Includation Visible in Includes in Includation Visible in Includes in In	icators: aum ====================================	⊡ec⊡all t⊡at a⊡ X	□□) Water-Stained Le A□uatic Fauna (E True A□uatic Plate Oxidi⊡ed R□□□□□ Presence □□Red Recent Ir□n Redu T□n Muc□Sur[ac	ea les (B9) 813) nts (B14) e Odlor (C1) leres in Lilling uced Irch (C4) uction in Tilled S ce (C7) ata (D9)	g R⊡ts (C3)		Secon X	ndar□Indicat⊡s (minimum □t□□re□uired) Surace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas□n Water Ta□e (C2) Cra⊡s□ Burr□s (C8) Saturati□n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□c P□siti□n (D2)
TIDE: compacted Delt (incles): 10 emarls: Shovel res Shovel res Evaluation (A1) Hig Water Table (A3) Water Marls (B1) Sediment Deltsits (B3) Algal Mat in Crust (Estimated in Deltsits (B5) Inundation Visible in 1999 Interpretable (A1) Interpretable (A2) Interpretable (A3) Interpr	icators: num ===ne is re=uired===1 2) B2) B2) Aerial Imager=(B7)	⊡ec⊡all t⊡at a⊡ X	□□) Water-Stained Le A□uatic Fauna (E True A□uatic Pla H□dr□gen Sulide Oxidi⊡ed R□□□□□ Presence □□Red Recent Ir□n Redt T□n Muc□Surāα Gauge □r Well Da	ea les (B9) 813) nts (B14) e Odlor (C1) leres in Lilling uced Irch (C4) uction in Tilled S ce (C7) ata (D9)	g R⊡ts (C3)		Secon X	dar□Indicat⊡s (minimum □t□□re□uired) Surace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□ic P□siti□n (D2)
T□e: compacte De□□ (inc□es): 10 emar□s: Shovel re Surace Water (A1) Hig□ Water Ta□e (A X Saturati□n (A3) Water Mar□s (B1) Sediment De□sits (B3) Algal Mat □ Crust (B3) Algal Mat □ Crust (B3) In□n De□sits (B5) Inundati□n Visi□e □ S□arse□ Vegetated	icators: num ===ne is re=uired===1 2) B2) B2) Aerial Imager=(B7)	⊡ec⊡all t⊡at a⊡ X	□□) Water-Stained Le A□uatic Fauna (E True A□uatic Pla H□dr□gen Sulide Oxidi⊡ed R□□□□□ Presence □□Red Recent Ir□n Redt T□n Muc□Surāα Gauge □r Well Da	ea les (B9) 813) nts (B14) e Odlor (C1) leres in Lilling uced Irch (C4) uction in Tilled S ce (C7) ata (D9)	g R⊡ts (C3)		Secon X	dar□Indicat⊡s (minimum □t□□re□uired) Surace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□ic P□siti□n (D2)
TIE: compacted Delt (incles): 10 emarls: Shovel res Shovel res Shovel res Evaluation (A1) Hig Water Taile (A1) Hig Water Marls (B1) Sediment Deltsits (B3) Algal Mat or Crust (It Iron Deltsits (B5) Inundation Visible of Sizersel Vegetated	icators: num ===ne is re=uired===1 2) B2) B2) Aerial Imager=(B7)	⊡ec⊡all t⊡at a⊡ X	□□) Water-Stained Le A□uatic Fauna (E True A□uatic Pla H□dr□gen Sulide Oxidi⊡ed R□□□□□ Presence □□Red Recent Ir□n Redt T□n Muc□Surāα Gauge □r Well Da	ea es (B9) straints (B14) e Od⊡r (C1) □ eres en Liding uced Ir⊡n (C4) ucti⊡n in Tilled se (C7) ata (D9) Remar s)	g R⊡ts (C3)		Secon X	ndar□Indicat⊡s (minimum □t□□re□uired) Surace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas□n Water Ta□e (C2) Cra⊡s□ Burr□s (C8) Saturati□n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□c P□siti□n (D2)
Emar S: Shovel reserved in the state of the	icators: num ===ne is re=uired=== 2) B2) B2) Aerial Imager=(B7) C=nca== Surface (B8)	Eec⊡all t⊡at a⊡ X	Water-Stained Le A□uatic Fauna (E True A□uatic Pi True A□uatic Pi Gen Sulfide Oxidi ed R□□□□□ Presence □ Red Recent Ir□n Red T□n Muc□Surfac Gauge □ Well D Ot□er (Ex□ain in	ea es (B9) sta) nts (B14) e Odor (C1) =eres en Liding uced Ircn (C4) uction in Tilled see (C7) ata (D9) Remar s)	g R⊡ts (C3)		Secon X	ndar□Indicat⊡s (minimum □t□□re□uired) Surace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas□n Water Ta□e (C2) Cra⊡s□ Burr□s (C8) Saturati□n Visi⊡e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□c P□siti□n (D2)
T = : compacte De (inc es): 10 Permar s: Shovel re Surace Water (A1) Hig Water Ta e (A Saturati	icators: num ==ne is re=uired=c: 22) B2) Aerial Imager=(B7) C=nca=e Sur/ace (B8)		Water-Stained Le A_uatic Fauna (E True A_uatic Pai H_dr_gen Sulide Oxidi ed R_i_si PresenceRed Recent Ir_n Redt T_in Muc_Surfac Gauge _r Well Do Ot_er (Ex_lain in	eales (B9) 313) Ints (B14) Odlor (C1) □eres on Liding uced Iron (C4) uction in Tilled See (C7) ata (D9) Remaros)	g R⊡ts (C3)		Secondary X	Idar□Indicat□rs (minimum □t□□re□uired) Sur□ace S□l Crac□s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)
T □ e: compacte De □ t □ (inc □ es): 10 emar □ s: Shovel re Surace Water (A1) Hig □ Water Ta □ e (A2) Water Mar □ s (B1) Sediment De □ sits (B3) Algal Mat □ Crust (It Ir □ De □ sits (B5) Inundati □ Nisi □ e S□ arsel □ Vegetated Sield Observations: Urace Water Present □ aturati □ Present □	icators: num ==ne is re uired col B2) B2) Aerial Imager (B7) C nca e Sur ace (B8) Yes Yes Yes Yes Yes	N□ X N□ X N□ X	□□) Water-Stained Le A□uatic Fauna (E True A□uatic Plai H□dr□gen Suliide Oxidi□ed R□□□□ Presence □□Red Recent Ir□n Redd Gauge □ Well De Ot□er (Ex□ain in De□t□ (inc□es) De□t□ (inc□es)	eales (B9) atales (B9) atales (B14) odor (C1) ceres in Lidn uced Ir⊡n (C4) uctiin in Tilled S ce (C7) atal (D9) Remar s)	g R⊡ts (C3) S⊡ls (C6)		Secondary X	Idar□Indicat□rs (minimum □t□□re□uired) Sur□ace S□l Crac□s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□r□ic P□siti□n (D2) FAC-Neutral Test (D5)
TIE: compacte DeIt (inc es): 10 emar s: Shovel re Surface Water (A1) Hig Water Tale (A3) Water Mar (B1) Sediment De sits (B3) Algal Mat Crust (B1) Ir n De sits (B5) Inundatin Viside Should be shown to see the shown to se	icators: num ==ne is re uired ====================================	No X No X No De Cell, aerial o	Water-Stained Le A Luatic Fauna (E True A Luatic Plai H L L L L L L L L L L L L L L L L L L L	eales (B9) ala) nts (B14) Odir (C1) □eres in Lidin; uced Irin (C4) uctiin in Tilled see (C7) ata (D9) Remaris) : : : : : : : : : : : : :	g R⊡ts (C3) S⊡ls (C6)	n F6 is me	Secondary X	Idar□Indicat⊡rs (minimum □t□□re□uired) Surʿace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□le (C2) Cra□is□Burr□s (C8) Saturati□n Visi□le □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)
T = : compacte De	icators: num ==ne is re=uired====================================	No X No X No Control of Green and Control of Cont	Water-Stained Le A□uatic Fauna (E True A□uatic Plan H□dr□gen Sulfide Oxidi⊡ed R□□□□□ Presence □□Red Recent Ir□n Red T□in Muc□Surfac Gauge □r Well Da Ot□er (Ex□ain in De□t□ (inc□es) De□t□ (inc□es) De□t□ (inc□es) □tts, □re□□us in RCS Soils Map (eales (B9) alia) alia) alia) alia (B14) alia (B14) alia (C1) alia (C1) alia (C2) alia (D9) Remarls) alia ali	g R⊡ts (C3) S⊡ls (C6)	n F6 is me	Secondary X	Idar□Indicat⊡rs (minimum □t□□re□uired) Surʿace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□le (C2) Cra□is□Burr□s (C8) Saturati□n Visi□le □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)
TIDE: compacte Dett (incles): 10 PMARCHOGY Shovel re The stand Hydrology Indition of the standard Hydrology Indianary Indicators Indianard Hydrology Indianard Hydr	icators: num ==ne is re uired ====================================	No X No X No Control of Green and Control of Cont	Water-Stained Le A□uatic Fauna (E True A□uatic Plan H□dr□gen Sulfide Oxidi⊡ed R□□□□□ Presence □□Red Recent Ir□n Red T□in Muc□Surfac Gauge □r Well Da Ot□er (Ex□ain in De□t□ (inc□es) De□t□ (inc□es) De□t□ (inc□es) □tts, □re□□us in RCS Soils Map (eales (B9) alia) alia) alia) alia (B14) alia (B14) alia (C1) alia (C1) alia (C2) alia (D9) Remarls) alia ali	g R⊡ts (C3) S⊡ls (C6)	n F6 is me	Secondary X	Idar□Indicat⊡rs (minimum □t□□re□uired) Surʿace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□le (C2) Cra□is□Burr□s (C8) Saturati□n Visi□le □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P□siti□n (D2) FAC-Neutral Test (D5)

Pr⊡ectiSite: Loom	nis Road Parcels					Cit⊡C⊡u	nt⊡ Milwaukee		Sam⊒in	g Date: Octo	ber 30, 2014	
A□□licantiO□ner:	Bear Developme	ent, LLC	;			_	State:	wı	I	Sam⊟ir	ng P⊡nt: DP-33	UPL
In⊑estigat⊡r(s):	Heather D. Patti	, PWS				Se	cti⊡n, T⊡□ns⊡⊑, l	Range:	Section	30, T5N R21	1E	
Land⊡rm (⊡llsl⊡e, t	terrace, etc.): t	errace					(c⊡nca⊡e, c⊡n⊡ex		none-fla	at		
SI□□e (□): 10%		Lat:	See Figure 2		L⊡ng:	See Figure 2		_	Г	Datum: See F	igure 2	
S⊡l Ma Unit Name:			Ashkum s	ilty clay loam (A	sA), hydric			WWI Class	i⊡cati⊡n:		none	
Are climatic □□dr□□	gic c⊑nditi⊡ns ⊑n t⊡	e site t□	 ⊑ical ⊞r t⊑is time	□□□ear□		Yes	X N□		(i⊡n□, e	x⊒ain in Rem	nar⊑s)	
Are Vegetati⊡n	<u>*Y</u> S⊡l	N	□r H⊡dr□□g□	N signitica	ntl□distur⊑ed⊡		Are "N⊡rmal Circu	mstances"	□resent□		Yes	N□ X
Are Vegetati⊡n	N S⊡I	N	□r H⊡dr□□□g□	N naturall	□r□□lematic□] (i	i⊡needed, ex⊟ain	n an⊡ans⊟e	ers in Ren	nar⊡s)		
CUMMARY OF	FINDINGS	A 44 l-	-it						_4	-4-		
SUMMARY OF	FINDINGS /	Attacn	site map sn				insects, impo	ortant tea	atures,	etc.		
H⊡dr⊡⊡⊡tic Vegetati	i⊡n Present□		Yes		Х		s t⊑e Sam⊡ed Ar	ea				
H⊡dric S⊡l Present□			Yes		Х	_	it⊑in a Wetland□			Yes	N□	Х
Wetland H⊡dr⊒⊡g⊒P	Present□		Yes	N□	Х	_ 11	□⊑es, □⊑ti□nal □e	tland site ID):	N/A		
Remar⊑s:	*Active corn fiel	d - corn	is healthy, no c	rop stress		•						
	None of the wet		-	-								
VEGETATION -	Use scienti∄c ı	names	⊞r □ants.							Sam⊒ing	P⊡nt:D	P-33 UPL
T 01 1 (DIE)	= 00ID \		A⊡s⊡ute □	D⊡minant	Indicat⊡r		Dominance	Test Work	sheet:			
Tree Stratum (PI⊡t si	Le: 30°R)		C□⊑er	S⊡ecies	Status	-	Num⊡er □□□)⊡minant Si	ecies			
1. <i>n/a</i>							T⊑at Are OB				0 (A)	
2.		•				_					`` ′	
3.						_	T⊡tal Num ⊟					
4						-	S⊡ecies Acr	⊑ss All Stra	ta:		1 (B)	
6						-	Percent □□D)⊡minant S⊺	ocies -			
7.						-	T⊑at Are OB				0 % (AB)	
			=	T⊡tal C□⊡er							` '	
							Prevalence					
							OBL s⊡ecies	⊡tal □ C□□	er 📖		<u>Multi□□□□</u>	
Sa⊡ingเ\$⊡ru□ Stratu	ım (Pl⊡t si⊏e·	15'R)					FACW s⊟ecies			x 2 =	: 	
	(1 1 2 6 2 5 1	,					FAC s⊡ecies			x 3 =		
2.						-	FACU s⊡eci	es		x 4 =		
3						_	UPL s⊡ecies			x 5 =		
						-	C⊡umn T⊡ta	als:		(A)		(B)
		•				-	Pre⊡al	ence Index	BA =		n/a	
7.												
			=	T⊡tal C□⊑er			Hydrophytic	_				
								Ra⊡d Te D⊡minan		dr⊟⊟⊟tic Veg	etati⊡n	
							_	D∟minan Pre ⊑alend				
Her□ Stratum (PI⊡t si	i⊑e: 5' R)									⊡ide su ⊡⊡rtin	q
1. Zea mays		<u> </u>	90%	ΥΥ	UPL	_				⊡r ⊡n se⊡ara		•
2.						_		Pr⊡⊒ema	ıtic H⊡dr⊡	.□□tic Vegeta	ati⊡n¹ (Ex⊟ain)	
3.						-						
5.						-	¹ Indicat⊟rs i	□□□□dric s□	il and ⊟e'	tland □⊡dr⊡⊡	n⊟must	
6.		•				-				□r□□lematic.	9	
7.												
8						-						
40		•				-						
l						-						
12.												
13.						-						
14			90% =	T⊡tal C□⊡er		-						
			9076									
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R)										
1. <i>n/a</i>						-						
2.						-						
3.		1					Hydrophytic	С	-			
4.						-	Vegetation				_	
			0%	= T⊡tal C⊡⊑er			Present?		Yes		No X	
Remar⊡s: (Include □	□t□ num □ers □ere	⊡r⊡nas	se⊑arate s⊑eet.)			ı						
Hydrophytic vegeta	ition criterion is no	ot met.	No crop stress o	bserved in this	area.							

SOIL								Sam⊡ing	P⊡nt:	DP-33 UPL
Profile Description	(Describe to the depth need	ded to docum	nent the indicato	r or confirm +	he absence o	of indicate	ors.)			
•	` .	dea to docum	nent the malcato			n muicate	ns.,			
De⊡t□ (inc□es)	Matrix C□□r (m⊡st)		C□□r (m⊡st)	Red □x Featu	T <u>□e</u> 1	L⊡c²	Texture	Re	mar⊑s	
0-10	10YR 3/1	100%			11110	LLC	si cl loam	- 110	IIIdi 🗵	
10-15	10YR 3/1	95%	10YR 5/6	5%	С	м	si cl loam			
					. —					
15-20	10YR 5/2	90%	10YR 5/6	10%	С	М	silty clay			
								1		
								'		
					1					
¹ T⊞e: C=C⊡ncentrati	i⊡n, D=De⊡eti⊡n, RM=Reduc	ed Matrix, CS	=C⊡ered □r C□a	ted Sand Grain	ns.	2	L⊑cati⊡n: PL=P⊡re Li	ning, M=Matrix		
Hydric Soil Indicators	·e·						Indicators for P	roblematic Hydric So	ils ³ .	
-			Sand Clased Ma	triv (CA)				•		
Hist⊡s⊡ (A1) Histic E⊡⊡ed⊡n (/	(A2)		Sand □ Gle □ed Ma Sand □ Red □x (S5					'rairie Red⊡x (A16) (LR ır⊡ace (S7) (LRR,K,L)	K,K,∟,K)	
Blac Histic (A3)	'		Stri ==ed Matrix (S	•				uc⊞ ⊑eat ⊡r ⊑eat (S3) (IDDKI	
H⊑dr⊑gen Sultide			L□am□ Muc□□ Mir	*				nganese Masses (F12)		P)
Stratified Lacers (,		L□am□ Gle □ed Ma					all□□ Dar□Surāce (TF		,13,
2 cm Muc□(A10)	` '		De □eted Matrix (I	. ,				an⊟ bar∃eur⊒ee (11 Ex⊟ain in Remar⊑s)	12)	
` '	, Dar⊡Sur⊡ace (A11)		Red □x Dar □ Sur	,				2/2dii/ ii/ / (diiidi 25)		
T⊑ic□Dar□Sur⊡a	, ,		De leted Dar Su	. ,						
Sand□Muc⊡Mir			Red □x De □ressi □	. ,						
	,			(- /						
							³ Indicat □rs □□□□	dr⊒⊒⊒tic e ⊑egetati⊡n a	and ⊟etland	d
								□e □resent, unless dist		_
							□r□□lematic.			
Restrictive Layer (if o	observed):									
T⊞e: none	observed).									
	n/a	_				Hvd	ric Soil Present?	Yes	No	Y
Вода (шодоо).	11/4					11,44	no con i recent.			
Remar⊡s: There i	is a dark A horizon characte	eristic of Ash	nkum silty clay lo	am, but the h	vdric soil cri	terion is r	not met.			
			, , ,	,	•					
HADBOLOCA										
HYDROLOGY										
Wetland Hydrology I	Indicators:						Sec⊡nd	ar□Indicat⊡rs (minimur	n □□t□□re	□uired)
	inimum □□□ne is re□uired□c□e	ec□all t⊡at a□						Sur⊡ace S⊡l Crac⊡s		— ′
,				o Foo (P0)		_		_		
Sur ace Water (A			Water-Stained Le A□uatic Fauna (B					Drainage Patterns (I Dr⊡-Seas⊡n Water 1		
Hig□ Water Ta⊡e	e (A2)		,	,				Cra □is □ Burr □□s (C	٠,	
Saturati n (A3)	`		True A Luatic Plan						,	ogor□(C0)
Water Mar s (B1)	•		H⊡dr⊡gen Sultide Oxidi⊡ed R⊡ ⊡s□		~ D == to (C2)			Saturati⊡n Visi⊡e ⊡		
Sediment De □si	` '		Presence □□Redu		g R⊔⊥s (C3)			Stunted or Stressed		1)
Drift De ⊟sits (B3				. ,	0=1- (00)		-	Ge⊡m⊡r⊡⊡c P⊡siti□		
Algal Mat ☐r Crus			Recent Ir n Redu		SLIS (Cb)			FAC-Neutral Test (D	15)	
Ir⊡n De⊟⊑sits (B5	*		Tin Muc Surac	. ,						
	e ⊡n Aerial Imager□(B7)		Gauge □r Well Da							
S_arsei_vegetat	ted C⊡nca⊡e Sur⊡ace (B8)		Ot⊡er (Ex⊡ain in	Remar∟s)						
						1				
Field Observations:										
Sur⊡ace Water Presen	nt□ Yes	N□ <u>X</u>	De ⊑t□ (inc ⊑es):		_					
Water Ta	Yes	N□ X	De t (inc es):		•					
Saturati⊡n Present□	Yes	N□ X	De⊡t□ (inc⊡es):		•		Wetlar	nd Hydrology Present	? Yes_	No
(includes ca⊡llar□ īːino						1				
Descri⊡e Rec⊡rded Da	ata (stream gauge, m⊡nit⊡rino	g □ell, aerial □	⊒⊒⊒t⊡s, ⊡re⊡i⊒us ir	ns⊡ecti⊡ns), i⊡	a⊑aila⊟e:					
	jure 1), 1-foot contour map					n 2000, 20	005, 2010, and 2013	(Figures 4A-D),		
WWI map (Figure 5),	NOAA's AHPS map (Figure	e 6), Local W	VETS table, and F	SA Crop Slid	es					
Remar⊑s: Wetlan	nd hydrology criterion is no	t met. Not a	strong indication	of consistent	t wetness on	FSA crop	slides or aerials.			

Pr⊒ectiSite: Loom	is Road Parcels			Cit□C□unt□ Milwaukee	Sam ling Date: October 30, 2014
A□□icantɪO□ner:	Bear Developm	ent, LLC		State:	WI Sam⊡ing P⊡nt: DP-34 UPL
In⊑estigat⊡r(s):	Heather D. Patti	i, PWS		Secti⊡n, T□□ns⊡□, Range:	Section 30, T5N R21E
Land ⊡rm (⊡llsl⊐e, t	terrace, etc.):	backslope		L⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	slightly concave
SI□□e (□): 10%		Lat: See Figure 2	L⊡ng:	See Figure 2	Datum: See Figure 2
S⊡l Ma Unit Name:		Ashkum s	ilty clay loam (AsA), hydric	WWI CI:	assi⊈cati⊡n: none
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t	⊑e site t⊡ical ⊞r t⊡s time	□□□ear□	Yes X N□	(i⊡n⊑, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>*Y</u> S⊡I	N □r H⊡dr□□g□	N signi icantl □ distur □ed	I□ Are "N□rmal Circumstance	es" □resent□ Yes N□ X
Are Vegetati⊡n	<u>N</u> S⊡I	N □r H□dr□□g□	N naturall□ □r□□lematic	□ (i□needed, ex□ain an□an	s□ers in Remar⊡s)
CUMMARYOF	FINDINGS	Attack site was ak		la antiqua dununcata immunutant	factures at a
SUMMARY OF	FINDINGS	Attach site map sh		locations, transects, important	teatures, etc.
H⊡dr⊡⊡⊒tic Vegetati	□n Present□	Yes			
H⊡dric S⊡l Present□		Yes		□it⊡n a Wetland□	YesN□X
Wetland H⊡dr⊒⊡g□P	Present□	Yes	N□ X	I□⊑es, □□ti□nal □etland site	e ID: N/A
Remar⊑s:	*Active corn fie	ld - corn is healthy, no c	rop stress. Evidence of soil	erosion here after storm events.	
		tland criteria have been i			
VEGETATION -	Use scienti∄c	names ⊞r □ants.			Sam⊟ing P⊡nt: DP-34 UPL
- 0		A⊡s⊡ute □	D⊡minant Indicat⊡r	Dominance Test W	orksheet:
Tree Stratum (PI⊡t si	Le: 30'R	C⊟⊑er	S⊡ecies Status	_ Num⊑er □□D⊡minan	t STacies
1. n/a				T⊑at Are OBL, FAC\	
2.					
3.				T⊡tal Num⊡er ⊡⊡D⊡r	
4				S ⊡ecies Acr⊡ss All S	Strata: <u>1</u> (B)
5				_ Percent ⊡D⊡minani	t S Tanian
7.				T⊑at Are OBL, FAC\	
		0% =	T⊑tal C⊟⊑er	_	
				Prevalence Index V	
				T tal 0 (
Sa⊡ingเ\$⊡ru⊟Stratu	m /DI⊓t ei⊓a·	15'R)		OBL s⊡ecies FACW s⊡ecies	x 1 = x 2 =
	III (FILL SILE.	13 K)		FAC s⊑ecies	x 3 =
2.				FACU s⊡ecies	x 4 =
3.				UPL s⊡ecies	x 5 =
				_ C⊡umn T⊡tals:	(A) (B)
				_ Pre⊡alence Ind	dex B/A = n/a
7.				_ FreEdictice inc	IEX DIA - IIVa
		0%	T⊑tal C⊡er	Hydrophytic Veget	ation Indicators:
					Test
					nance Test is ⊑50□ lence Index is ≤ 3.0 ¹
Her□ Stratum (PI⊡t si	i⊑e: 5'R	1			ience index is ≤ 3.0 □□□gical Ada⊡tati⊡ns¹ (Pr□□ide su□□□rting
1. Zea mays		100%	Y UPL		a in Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2.				Pr□□e	ematic H⊡dr□□□□tic Vegetati⊡n¹ (Ex⊡ain)
3				_	
4. 5.				_ 1 Indicators DDDdric	s ⊑il and □etland □⊑dr⊡⊑g□must
6.					distur⊑ed □r □r□□lematic.
7.				-	
8.				_	
				_	
				-	
12.				-	
13.					
14.					
		100% =	: T⊑tal C⊡⊑er		
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R	<u>)</u>			
l . 				_	
1. <u>n/a</u>				_	
3.				Hydrophytic	
4.				Vegetation	
		0%	= T⊡tal C⊡⊑er	Present?	Yes No <u>X</u>
Remaris: (Include III	Tt⊓num∏ere ⊡ere	☐r ☐n a se⊡arate s⊡eet.)		I	
,		ot met. No crop stress of	observed in this area.		

(includes ca⊡llar⊡ringe) Descri⊡e Rec⊡rded Data (stream gauge, m⊡nit⊡ring ⊡ell, aerial □□□t⊡s, □re⊡□us ins□ecti⊡ns), i□a□aila□le: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides	SOIL							Sam⊡ing P⊡nt:	DP-34 UPL
Incident COLD (1998) COL	Profile Description: (Describe to the de	pth needed to docur	nent the indicato	r or confirm	the absence of	of indicate	ors.)		
Description Cold (middle)	· · ·						,		
13-1-16 1978 327 99% 1978 596 5% C M slity clay 16-29 1978 592 99% 1978 596 19% C M slity clay 16-29 1978 592 99% 1978 596 19% C M slity clay 16-29 1978 592 99% 1978 596 19% C M slity clay 17 - e. C-c/- coercitatis a, p-Dob-lettin, PM-Reakued Matin, CS-C-Leared + C alsed Sand Grains. 18-15 + 1 (A1) 18-15 Sand-Give of Matrix (S4) 18-16 San			C□□r (m⊡st)			L□c ²	Texture	Remar⊡s	
1978 502 1978 502 1978 506 1978 506 1978	0-11 10YR 3/1	100%	-				si cl loam	'	
Title CPCI neestral in DPDe lett in RM=Reduced Main's, CS=Cil and if C laind Sand Grains. **Lication Picture Problematic Hypric Solids* Indicators for Problematic Hypric Solids* Indicators (2) Security (2) Security (2) Security (3) Security (4) Securi	11-16 10YR 3/1	95%	10YR 5/6	5%	С	М	si cl loam		
Tile Ciffo nomination (notice lettin in RM-Reduced Matrix CS-Cilled Inc.) Tile Ciffo nomination (notice lettin in RM-Reduced Matrix CS-Cilled Inc.) Type Self indicators: Indicators 16 (2) Send Ciffor et Matrix (Ss) Beach Reduced (2) Send Ciffor et Matrix (Ss) Person (Ss) Reduced Ciffor et Matrix (Ss) Sender (Ss) Sender (Ss) Sender (Ss) Reduced Ciffor et Matrix	16-20 10YR 5/2	90%	10YR 5/6	10%	С	М	silty clay		
Indicators for Problematic Hydric Soils*: Histor Land (A) Sand Cledied Matrix (S4) Data Final (A) Sand Cledied Matrix (S4) Data Final (A) Sand Cledied Matrix (S6) Data Final (A) Sand Cledied Matrix (S6) Data Final (A) Sand Cledied Matrix (S6) Strailed Lana (S6) Lana Gladied Matrix (S6) Data Final (A) Sand Cledied Matrix (S6) Reduct Data Final (A) Sand Cledied Matrix (S6) Reduct Data Final (A) Sand Cledied Matrix (S6) Reduct Data Final (A) Sand Cledied Matrix (S6) Data Final									
Haltau (A1) Sand_Gle_ized Matrix (S44) Basc_Hoster (A2) Sand_Gle_ized Matrix (S45) Sand_Gle_ized Matrix (F2) De_fleeted Basc_Saranee (F7) Sand_Gle_ized Matrix (F2) De_fleeted Basc_Saranee (F7) Sand_Gle_ized Matrix (F2) Sand_Gle_ized Matrix (F2) De_fleeted Basc_Saranee (F7) Sand_Gle_ized Matrix (F2) Sand_Gle_ized Matrix (F2) De_fleeted Basc_Saranee (F7) Sand_Gle_ized Matrix (F2) De_fl								_	
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Indicators for Problematic Hydric Soils*: Histor Land (A) Sand Cledied Matrix (S4) Data Final (A) Sand Cledied Matrix (S4) Data Final (A) Sand Cledied Matrix (S6) Data Final (A) Sand Cledied Matrix (S6) Data Final (A) Sand Cledied Matrix (S6) Strailed Lana (S6) Lana Gladied Matrix (S6) Data Final (A) Sand Cledied Matrix (S6) Reduct Data Final (A) Sand Cledied Matrix (S6) Reduct Data Final (A) Sand Cledied Matrix (S6) Reduct Data Final (A) Sand Cledied Matrix (S6) Data Final									
Histor Elizadin (A2) Blaci-Histor (A3) Blaci-Hist	T⊡e: C=C⊡ncentrati⊡n, D=De ☐eti⊡n, RM	=Reduced Matrix, CS	S=C⊡ered □r C⊡at	ted Sand Gra	ins.	2	L⊡cati⊡n: PL=P⊡re L	ining, M=Matrix	
Histor Elizadin (A2) Blaci-Histor (A3) Blaci-Hist	lvdric Soil Indicators:						Indicators for I	Problematic Hydric Soils ³ :	
Histor Efficient (A2) Sand-Red X (85) Dar-Surace (87) (LRR,KL) History of Surace (A2) Sand-Red X (85) Some more than the state of the	•		Sand □ Gle □ed Ma	trix (S4)				•	
Black-Hasic (A3) Stritted Matrix (S8) Som nucleited to treat (S3)(LRR.KL) Hiddings Suited (A2) Linam (Macchineral (F1) Iran Magnagee Masses (F12) Red.LRR									
Stratile Larers (A5)	` '		,	•					
2 cm Muci_(A10)	H⊑dr⊑gen Sulıîde (A4)		L □am □ Muc □ Mir	neral (F1)			Ir⊡n-Ma	anganese Masses (F12)(LRR,K,L,I	₹)
Delited Belt Deri Sur ace (A11)	` '							, ,	
Decleted Dar:Surrace (A12)			,	,			Ot⊡er (Ex⊟ain in Remar⊡s)	
Restrictive Layer (if observed): The incident of the property				. ,					
Restrictive Layer (if observed): Title: none Detti (incles): n/a Remark: There is a dark A horizon characteristic of Ashkum silty clay loam, but the hydric soil criterion is not met. HYDROLOGY Wetland Hydrology Indicators: Surface Sill criterion is not met. Wetland Hydrology Indicators: Surface Sill Criterion is not met. Wetland Hydrology Indicators: Surface Sill Criterion is not met. Water-Stained Leares (B9) Darinage Patterns (B10) Dirinage Patterns	• • • • • • • • • • • • • • • • • • • •			` '					
Restrictive Layer (if observed): Till:: none Delit (incites): Inda There is a dark A horizon characteristic of Ashkum sitty clay loam, but the hydric soil criterion is not met. Hydric Soil Present? Yes No X Remarks: There is a dark A horizon characteristic of Ashkum sitty clay loam, but the hydric soil criterion is not met. HYDROLOGY Wetland Hydrology Indicators: Primar/Indicatats (minimum Image is returned of cecall total acid) Surface Water (A1) Hig: Water Table (A2) Aduate Fauna (B13) True Abusto Plants (B14) Derinage Patterns (B10) Hig: Water Table (A2) Substantian (A3) True Abusto Plants (B14) Corables Burtlac (B2) Sediment Delistis (B2) Oxidicel Ribitations of Image Substantian (B2) Sediment Delistis (B2) Oxidicel Ribitations of Image Image (C3) Algal Mat If Crust (B4) Recent from Reduction in Tilled Suls (C6) Incited Delistis (B5) Individual Nisite in Aerial Imager (B7) Substantian (Pissus (B5) Individual Nisite in Aerial Imager (B7) Individual Nisite in Aerial Imager (B7) Substantian (B4) Substantian Present Yes No X Delit (Incites): Substantian Present Yes No X Delit (Incites): Noter Table Presen	Sand_MucMineral (S1)		Red_X Dell'essill	is (Fo)					
Restrictive Layer (if observed): Tile: none Delic (incles): Inda There is a dark A horizon characteristic of Ashkum sitty clay loam, but the hydric soil criterion is not met. Hydric Soil Present? Yes No X Remarks: There is a dark A horizon characteristic of Ashkum sitty clay loam, but the hydric soil criterion is not met. HYDROLOGY Wetand Hydrology Indicators: Primar/Indicatats (minimum line is reluiredicised all tataling) Surface Water (A1) High Water Taine (A2) High Water Taine (A2) Aluatic Fauna (B13) True Aluatic Plants (B14) Cradias Bernias (C3) Sediment Delicatis (B2) Oxidiced Rillias Leres in Liling Rills (C3) Sediment Delicatis (B2) Oxidiced Rillias Leres in Liling Rills (C3) Algald Mat in Crust (B4) High Delicatis (B5) In modelling (B5) Scarsel-Vegetated Cineals Surface (B8) Other (Exclain in Remarks) Field Observations: Wetand Hydrology Present? Yes No X Delic (incles): Note Taile Present Yes No X Delic (incles): Not							3 Indicat ro □□□	Edr.	ı
Restrictive Layer (if observed): Tile: none Delic (incles): n/a Present: There is a dark A horizon characteristic of Ashkum silty clay loam, but the hydric soil criterion is not met. HYDROLOGY Wetland Hydrology Indicators: Primare indicatars (ininimum content is recuired clace all tata according to the primare indicatars (ininimum content is recuired clace all tata according to the primare indicatars (ininimum content is recuired clace all tata according to the primare indicatars (ininimum content is recuired clace all tata according to the primare indicatars (ininimum content is recuired clace all tata according to the primare indicatars (ininimum content is recuired clace all tata according to the primare indicatars (ininimum content is recuired clace and tata according to the primare indicatars (ininimum content is recuired clace and tata according to the primare indicatars (ininimum content is recuired clace solid tata according to the primare indicatars (ininimum content is recuired clace solid tata according to the primare indicatars (ininimum content is recuired clace according to the primare indicatars (ininimum content is recuired primare indicatars (ininimum content is recuired primare indicatars (ininimum content is recuired primare indicatars (ininimum content is not met. HYDROLOGY Wetland Hydrology Indicators: Survace Valer According Present								•	ı
Restrictive Layer (if observed): TITE: none Delic (incles): n/a There is a dark A horizon characteristic of Ashkum silty clay loam, but the hydric soil criterion is not met. HYDROLOGY Wetland Hydrology Indicators: Primari Indicators (minimum Title is refuired becall that all included in the included incl							-		
Hydric Soil Present? Yes No X									
There is a dark A horizon characteristic of Ashkum silty clay loam, but the hydric soil criterion is not met. Hydric Soil Present? Yes	Restrictive Laver (if observed):				1				
HYDROLOGY Wetland Hydrology Indicators: Primar Indicators (minimum Indicators (minimu									
HYDROLOGY Wetland Hydrology Indicators: Primarian Indicators (minimum the is refuired becall that all all surface Water (A1) Highwater Table (A2) Highwater Table (A2) Abustic Fauna (B13) Abustic Fauna (B14) Abustic Fauna (B13) Abustic Fauna (B13) Abustic Fauna (B14) Abustic Fauna (B14) Abustic Fauna (B13) Abustic Fauna (B14) Abustic Fauna (B14	De⊡t□(inc⊡es): n/a)				Hyd	ric Soil Present?	Yes No	х
### Wetland Hydrology Indicators: Sec_Indar_Indicat_ts (minimum □□□ re_uired)									
Metand Hydrology Indicators: Sec_Indar_Indicat_rs (minimum to refuired)	Remar :: There is a dark A horizon	characteristic of Asl	hkum silty clay lo	am, but the	hydric soil cri	terion is r	not met.		
Metand Hydrology Indicators: Sec_Indar_Indicat_rs (minimum to refuired)									
Metand Hydrology Indicators: Sec_Indar Indicators (minimum to refuired)									
Metand Hydrology Indicators: Sec_Indar Indicators (minimum to refuired)									
Metand Hydrology Indicators: Sec_Indar Indicators (minimum to refuired)									
Suriace Water (A1)	HYDROLOGY								
Primar Indicators (minimum ne is recluired ceccall total a ceccs cec	Matlend Hydrology Indicators						Coo □no	level bediesters (minimum estero es	i sira d\
Surface Water (A1)		irod⊏o⊏oo⊟oll t⊏ot o∈					Securio		uirea)
Hig□Water Ta□le (A2) Saturatin (A3) Saturatin (A3) Frue Aluatic Plants (B14) Cralis Burrls (C8) Saturatin (A3) Saturatin (A4)	,		,			_			
Saturati	• • •			. ,					
Water Maris (B1)			,	,					
Sediment Delisits (B2) Oxidiced Residence In Lising Rests (C3) Dritt Delisits (B3) Algal Matter Crust (B4) In Delisits (B5) In Delisits (B5) In Induction Visitie in Aerial Imager (B7) Starsel Vegetated Concale Surface (B8) Other (Exclain in Remarks) Field Observations: Surface Water Present Yes No X Delisit (incles): Water Table Present Yes No X Delisit (incles): Wetland Hydrology Present? Yes No X Delisit (incles): Water Table Present Yes No X Delisit (incles): Water Table Present Yes No X Delisit (incles): Water Table Present Yes No X Delisit (incles): No Describe Recorded Data (stream gauge, minitring lell, aerial lists, reclusions), inalialae: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides or aerials. There is									gor□(C0)
Dritt De □sits (B3)	` '		•	. ,	na R⊟ts (C3)				. ,
Algal Mat □ Crust (B4) Recent Ir□n Reducti□n in Tilled S□ls (C6) FAC-Neutral Test (D5) Ir□n De□sits (B5) T□n Muc□Suriace (C7) Inundati□n Visi□e □n Aerial Imager□(B7) Gauge □r Well Data (D9) S□arsel□Vegetated C□nca□e Suriace (B8) Ot□er (Ex□ain in Remar□s) Field Observations: Suriace Water Present□ Yes N□ X De□t□(inc□es): Saturati□n Present□ Yes N□ X De□t□(inc□es): Saturati□n Present□ Yes N□ X De□t□(inc□es): Wetland Hydrology Present? Yes No includes ca□llar□tringe; Descri□e Rec□rded Data (stream gauge, m□nit□ring □ell, aerial □□t□s, □re□us ins□ecti□ns), i□a□alla□e: USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Wetland hydrology criterion is not met. Not a strong indication of consistent wetness on FSA crop slides or aerials. There is									,
Ir De sits (B5)									
Inundati					03.0 (00)				
Scarsective Surface (B8) Other (Exclain in Remarks) Other (Exclain in Remarks) Other (Exclain in Remarks) Other (Exclain in Remarks) Surface Water Present	` ′								
Surface Water Present Yes No X Decto (incles): Water Table Present Yes No X Decto (incles): Saturation Present Yes No X Decto (incles): No X Decto (incles): Saturation Present Yes No X Decto (incles): No X Decto (incles): Saturation Present Yes No X Decto (incles):			-						
Surface Water Present: Yes N: X Dect: (incles): Water Table Present: Yes N: X Dect: (incles): Saturation Present	<u> </u>	` ′							
Surface Water Present Yes No X Decto (incles): Water Table Present Yes No X Decto (incles): Saturation Present Yes No X Decto (incles): No X Decto (incles): Saturation Present Yes No X Decto (incles): No X Decto (incles): Saturation Present Yes No X Decto (incles):	Field Observations:								
Water Ta⊡e Present□ Yes N□ X De□t□ (inc□es): Saturati□n Present□ Yes N□ X De□t□ (inc□es): Saturati□n Present□ Yes N□ X De□t□ (inc□es): Descri□e Rec□rded Data (stream gauge, m□nit□ring □ell, aerial □□t□s, □re□us ins□ecti□ns), i□a□aila□e: JSGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remar□s: Wetland hydrology criterion is not met. Not a strong indication of consistent wetness on FSA crop slides or aerials. There is		N□ ¥	De t (inc se).						
Saturation Presents Yes No X Decta (inclos): Wetland Hydrology Present? Yes No includes callular dringe; Yes No X Decta (inclos): Wetland Hydrology Present? Yes No includes callular dringe; Yes No X Decta (inclos): Wetland Hydrology Present? Yes No X Decta (inclos): Wetland Hyd	-				_				
Clincludes ca allar aringe; Describe Recorded Data (stream gauge, manitaring all, aerial actions), inclinated and stream gauge, manitaring all, aerial actions), inclinated actions), inclinated actions), inclinated actions are actions. USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remarts: Wetland hydrology criterion is not met. Not a strong indication of consistent wetness on FSA crop slides or aerials. There is					_		Wetla	nd Hydrology Present? Yes	No
USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remar :: Wetland hydrology criterion is not met. Not a strong indication of consistent wetness on FSA crop slides or aerials. There is			. ,						
USGS topo map (Figure 1), 1-foot contour map (Figure 2), NRCS Soils Map (Figure 3), Aerial Maps from 2000, 2005, 2010, and 2013 (Figures 4A-D), WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remar :: Wetland hydrology criterion is not met. Not a strong indication of consistent wetness on FSA crop slides or aerials. There is	Descri⊡e Rec⊡rded Data (stream gauge, m	ı⊑nit⊑ring □ell, aerial [⊒⊟⊒t⊡s, ⊡re⊡i⊡us ir	ns⊡ecti⊡ns), ii	⊒a⊑aila⊟e:				
WWI map (Figure 5), NOAA's AHPS map (Figure 6), Local WETS table, and FSA Crop Slides Remar :: Wetland hydrology criterion is not met. Not a strong indication of consistent wetness on FSA crop slides or aerials. There is		-				n 2000. 2	005, 2010, and 2013	(Figures 4A-D),	
						-,-		· - "	
· · · · · · · · · · · · · · · · · · ·									
	Remar⊡s: Wetland hydrology criteri	on is not met. Not a	strong indication	of consister	nt wetness on	FSA crop	slides or aerials.	There is	
	evidence of soil erosion/g	ullying in the area at	fter storm events	, but water is	s not standing	here for	periods of time.		

Pr⊒ectiSite: Loom	is Road Parcels			Cit⊡C□unt⊡ Milwaukee	Sam⊡ing Date: October 30, 2014
A□□licantiO□ner:	Bear Developme	ent, LLC		State:	WI Sam ☐ing P ☐nt: DP-35 UPL
In⊑estigat⊡r(s):	Heather D. Patti	, PWS		Secti⊡n, T⊡□ns⊡□, Range:	Section 30, T5N R21E
Land⊡rm (⊡llsl⊡e, t	errace, etc.):	oackslope		L⊡cal relie⊡(c⊡nca⊡e, c⊡n⊡ex, n⊡ne):	slightly concave
SI□□e (□): 10%		Lat: See Figure 2	L⊡ng:	See Figure 2	Datum: See Figure 2
S⊡l Ma□ Unit Name:		Blount	silt loam (BIA), hydric	WWI CI	lassiticati⊡n: none
Are climatic □□dr□□	gic c⊡nditi⊡ns ⊡n t⊡	e site t⊡ical ⊞r t⊡s time □	□□ear□	Yes X N□	(i⊡n□, ex⊡ain in Remar⊡s)
Are Vegetati⊡n	<u>*Y</u> S⊡I	_N_ □r H □dr □ □g □	N _signi⊡cantl□distur⊡ed□	Are "N□rmal Circumstance	es" ⊡resent□ Yes N□_X
Are Vegetati⊡n	N S⊡I	N □r H⊡dr□l□g□	N naturall □ □r □□lematic □	(i⊡needed, ex⊡ain an⊡an	ıs⊡ers in Remar⊡s)
CUMMARY OF	FINDINGS	A 44 - a la - a 14 - a - a - la - a			factures at
SUMMARY OF	FINDINGS A	Attach site map sho		ocations, transects, important	teatures, etc.
H⊡dr⊡⊡⊡tic Vegetati	□n Present□	Yes			
H⊡dric S⊡l Present□		Yes		□it⊑in a Wetland□	YesN□X
Wetland H⊡dr⊒⊡g⊒P	resent□	Yes	N□ X	I□⊡es, □□ti□nal □etland sit	te ID: N/A
Remar⊑s:	*Active corn fiel	ld - corn is healthy, no cro	op stress. Evidence of soil e	rosion here after storm events like DP-	-34.
		land criteria have been m			
L					
VEGETATION -	Use scienti∄c ı	names ⊞r ⊒ants.			Sam⊡ing P⊡nt: DP-35 UPL
- 0		A⊡s ☐ute □	D⊡minant Indicat⊡r	Dominance Test W	/orksheet:
Tree Stratum (PI⊡t si	_e: 30'R)	C⊟er	S⊡ecies Status	Num⊑er □□D□minar	nt S⊏ecies
1. <i>n/a</i>				T⊡at Are OBL, FAC	
2.					
3.				T⊡tal Num⊡er □□D□	
4				S⊡ecies Acr⊡ss All S	Strata: <u>1</u> (B)
5				Percent ⊡D⊡minan	nt S⊡ecies
7.				T⊡at Are OBL, FAC	
		0% =	T⊡tal C⊟⊑er	, ,	(
				Prevalence Index V	
					Coler of Multipole
Sa⊡ingเ\$⊡ru⊟Stratu	m (Pl⊏t si⊏e·	15'R)		OBL s⊡ecies FACW s⊡ecies	x 1 = x 2 =
	m (r in since.	13 K)		FAC s⊑ecies	x 3 =
2.				FACU s⊡ecies	x 4 =
3				UPL s⊡ecies	x 5 =
				C⊡umn T⊡tals:	(A) (B)
_				Pre⊡alence In	dex BIA = n/a
7.				тошеное пр	THE THE
		0% =	T⊡tal C⊡⊑er	Hydrophytic Veget	ation Indicators:
					d Test ⊞r H⊡dr⊡□□□tic Vegetati⊡n
					nance Test is □50□ alence Index is ≤ 3.0¹
Her□ Stratum (PI⊡t si	⊑e: 5' R)			□□□gical Ada⊡tati⊡ns¹ (Pr□□ide su□□□rting
1. Zea mays		100%	Y UPL		a in Remar⊡s ⊡r ⊡n se⊡arate s⊡eet)
2.				Pr□□6	ematic H⊡dr⊒⊒⊒tic Vegetati⊡n¹ (Ex⊒ain)
3					
5.				¹ Indicat⊜rs □□□□drid	c s⊡l and □etland □⊡dr⊡⊡g□must
6.					distured or crosematic.
7.				·	
8.					
40					
					
12.					
13.					
14					
		100% =	T⊑tal C⊟⊑er		
W□⊡d□Vine Stratum	(Pl⊡t si⊡e: 30'R	<u>)</u>			
l . 					
1. <u>n/a</u>					
3.				Hydrophytic	
4.				Vegetation	
		0%	= T⊡tal C⊡⊑er	Present?	Yes No <u>X</u>
Remaris: (Include III	Tt num fere fere	□r □n a se⊡arate s⊡eet.)			
,		ot met. No crop stress ob	served in this area.		

	C⊟⊡r (m⊡st)		C⊟⊡r (m⊡st)		res <u>T⊡e¹</u>	L⊡c ²	Texture	Remar⊡s
0-11	10YR 3/2	100%	-		<u> </u>		si cl loam	
11-16	10YR 3/2	95%	10YR 5/6	5%	С	М	si cl loam	
16-20	10YR 5/2	90%	10YR 5/6	10%	С	м	silty clay	
 _								
								-
Γ⊡e: C=C⊡ncentrati⊡	n, D=De⊡eti⊡n, RM=Redud	ced Matrix, CS	=C⊡ered ⊡r C⊡at	ed Sand Grains	S	² l	L⊡cati⊡n: PL=P⊡re L	ining, M=Matrix
ydric Soil Indicators:	:							Problematic Hydric Soils ³ :
Hist⊡s□ (A1)	0)		Sand □ Gle □ed Ma	, ,				Prairie Red x (A16) (LRR,K,L,R)
Histic E⊡⊡ed⊡n (A: Blac□Histic (A3)	2)		Sand⊡Red⊡x (S5j Stri⊡⊑ed Matrix (S					ırīace (S7) (LRR,K,L) uc⊞ ⊑eat ⊡ ⊑eat (S3)(LRR,K,L)
H⊡dr⊡gen Suliide (A4)		_⊡am⊡Muc⊞ Min	,				inganese Masses (F12) (LRR,K,L,R)
Stratiûed La⊡ers (A			_□am□ Gle □ed Ma					all⊡ Dar⊡Surāce (TF12)
2 cm Muc□ (A10)			De⊟eted Matrix (F	,			Ot⊡er (I	Ex⊡ain in Remar⊡s)
De ⊟eted Bel □□ Da	, ,		Red⊡x Dar□Sur⊡	. ,				
T⊡c□Dar□Surīace Sand□Muc□□Mine			De⊡eted Dar□Su Red⊡x De⊡ressi⊡	. ,				
Sandinde	erai (31)	'	ted_x De⊟essi⊟	is (Fo)				
								⊡dr□□□tic e⊡egetati⊡n and □etland
							□□dr□□g□must □r□□ematic.	□e □resent, unless distur□ed □r
							⊔r⊔⊔ematic.	
estrictive Layer (if ok	oserved):							
estrictive Layer (if ob T⊞e: <u>none</u>	oserved):							
T⊡e: none De⊡t□(inc⊡es): r		teristic of Blo	unt silt loam, but	the hydric so	il criterion is		ric Soil Present?	Yes No <u>X</u>
T⊡e: none De⊡t□ (inc⊡es): r	n/a	teristic of Blo	ınt silt loam, but	the hydric so	il criterion is		ric Soil Present?	Yes No <u>X</u>
T⊡e: none De⊡t⊡(inc⊡es): r emar⊡s: There is	n/a	teristic of Blou	ınt silt loam, but	the hydric so	il criterion is		ric Soil Present?	Yes No <u>X</u>
Time: none Delti (incles): r emaris: There is HYDROLOGY Vetland Hydrology Inc.	n/a a dark A horizon charact			the hydric so	il criterion is			ar□Indicat⊡s (minimum □t□□re□uired)
T :: none De:t: (inc:es): r Remar:s: There is HYDROLOGY Vetland Hydrology Inc rimar: Indicat:rs (minimar)	n/a a dark A horizon charact dicators: imum □□ne is re⊡uired⊡c			the hydric so	il criterion is			
T = : none De t (inc es): r Remar : There is HYDROLOGY Wetland Hydrology Inc rimar Indicat rs (mini Suriace Water (A1)	dicators:	⊡ec∷all t⊡at a⊡ \	⊒□) Water-Stained Lea	a⊡es (B9)	il criterion is			ar□Indicat⊡rs (minimum ⊡t□□re⊡uired) Surīace S⊡l Crac⊡s (B6) Drainage Patterns (B10)
T = : none De : (inc = s): r Remar : There is HYDROLOGY Wetland Hydrology Indirimar Indicat = s (mini sur ace Water (A1 Hig Water Ta = e (dicators:	iec⊡all t⊡at a⊡ 	⊒⊑) Water-Stained Lea A⊑uatic Fauna (B	aīes (B9)	il criterion is			ar□Indicat⊡rs (minimum □t□□re□uired) Surīace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta□e (C2)
T =: none De t (inc es): r temars: There is HYDROLOGY Wetland Hydrology Incrimar Indicates (Minimar Minimar Material) Surface Water (A1) Hig Water Talle (A3)	dicators:	ec⊡all t⊡at a⊡ 	⊐□) Water-Stained Le: A⊡uatic Fauna (B [:] Frue A⊡uatic Plan	aces (B9) 13) ts (B14)	il criterion is			ar□Indicat⊡rs (minimum □t□□ re uired) Surīace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas□n Water Ta□e (C2) Cra□is□ Burr□s (C8)
T⊡e: none De∷t⊡(inc⊡es): r emar⊡s: There is IYDROLOGY //etland Hydrology Incrimar□Indicat⊡s (Included Included Inclu	dicators: imum □□ne is re□uired□c□) (A2)	[ec⊡all t⊡at a⊡ 	⊐□) Water-Stained Le: A⊡uatic Fauna (B' Frue A⊡uatic Plan H⊡dr⊡gen Suliūde	aces (B9) 13) ts (B14) Od cr (C1)				ar□Indicat⊡rs (minimum □t□□re□uired) Surīace S⊡l Crac⊡s (B6) Drainage Patterns (B10) Dr⊡-Seas⊡n Water Ta⊡e (C2) Cra⊡is□Burr⊡s (C8) Saturati⊡n Visi⊡e □n Aerial Imager□(C9)
T = : none De t (inc es): r temars: There is HYDROLOGY Vetland Hydrology Inc rimar Indicat s (min Sur ace Water (A1 Hig Water Tale (Saturati (A3) Water Mars (B1) Sediment De sits	dicators: imum □□ne is re□uired□c□) (A2)	ec⊡all t⊡at a⊡ / (⊐□) Water-Stained Le: A⊡uatic Fauna (B' Frue A⊡uatic Plan H⊡dr⊡gen Sulide Dxidi⊡ed Rü⊡s□	aces (B9) 13) ts (B14) Odcr (C1) ceres cn Licing				ar□Indicat⊡s (minimum □t□□re□uired) Surīace S□l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□le (C2) Cra□□s□Burr⊡s (C8) Saturati□n Visi□le □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1)
T = : none De t (inc es): r Remars: There is HYDROLOGY Vetland Hydrology Inc rimar Indicates (Mini Surace Water (A1 Hig water Tale (Saturati (A3) Water Mars (B1) Sediment De sits Drill De sits (B3)	dicators: imum ===ne is re=uired====================================	ec⊡all t⊡at a⊡ 	⊐□) Water-Stained Le: A⊡atic Fauna (B' Frue A⊡atic Plan H⊡dr⊡gen Sulïide Oxidi⊡ed R⊡⊡s□ Presence ⊡Redu	a⊑es (B9) 13) ts (B14) Od⊡ (C1) ⊡eres ⊡n Li⊡ng ced Ir⊡n (C4)	R⊡ts (C3)			ar□Indicat⊡rs (minimum □tt□□re□uired) Surīace S□l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas □ Water Ta□e (C2) Cra□is□Burr□s (C8) Saturatt□r Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□r□ic P□sit□n (D2)
T = : none De t (inc es): r temars: There is HYDROLOGY Vetland Hydrology Inc rimar Indicat s (min Sur ace Water (A1 Hig Water Tale (Saturati (A3) Water Mars (B1) Sediment De sits	dicators: imum ===ne is re=uired====================================	ēc⊡all t⊡at a⊡	⊐□) Water-Stained Le: A⊡uatic Fauna (B' Frue A⊡uatic Plan H⊡dr⊡gen Sulide Dxidi⊡ed Rü⊡s□	aces (B9) 13) 15 (B14) Od (C1) 2eres on Liding ced Iron (C4) ction in Tilled S	R⊡ts (C3)			ar□Indicat⊡rs (minimum □t□□re□uired) Surīace S□l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□le (C2) Cra□□s□ Burr□s (C8) Saturati□n Visi□le □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1)
T□e: none De□t□(inc□es): r temar□s: There is	dicators: imum ===ne is re=uired====================================	Eec⊡all t⊡at a⊡	⊐□) Water-Stained Le: A⊔atic Fauna (B' Frue A⊔atic Plan H⊡dr⊡gen Suliūde Dxidi⊡ed R⊡⊡s⊟ Presence ⊡Redu Recent Ir⊡n Redu	ales (B9) 13) ts (B14) Odlur (C1) eres en Lieling ced Iren (C4) ctien in Tilled S e (C7)	R⊡ts (C3)			ar□Indicat⊡rs (minimum □tt□□re□uired) Surīace S□l Crac⊡s (B6) Drainage Patterns (B10) Dr□-Seas □ Water Ta□e (C2) Cra□is□Burr□s (C8) Saturatt□ Visi□e □ Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□r□ic P□siti□n (D2)
T□e: none De□t□(inc□es): r emar□s: There is IYDROLOGY /etland Hydrology Indicat□rs (mini Suriace Water (A1) Hig□Water Ta□e (Saturati□n (A3) Water Mar□s (B1) Sediment De□sits Dri□t De□sits (B3) Algal Mat □r Crust Ir□n De□sits (B5) Inundati□n Visi□e	dicators: imum ===ne is re=uired====) (A2) (B2) (B4)	ec⊡all t⊡at a⊡	J□) Water-Stained Lea Cuatic Fauna (B' Frue A⊡atic Plan Hddr⊡gen Sullide Dxidi⊡ed R⊡⊡s⊟ Presence ⊡Redu Recent Ir⊡n Redui	a⊡es (B9) 13) ts (B14) Od⊡ (C1) □eres □n Li⊡ng ced Ir□n (C4) cti□n in Tilled S e (C7) ta (D9)	R⊡ts (C3)			ar□Indicat⊡rs (minimum □t□□ re□uired) Sur□ace S□I Crac□s (B6) Drainage Patterns (B10) Dr□-Seas□n Water Ta□e (C2) Cra□□s□ Burr□□s (C8) Saturati□n Visi□e □n Aerial Imager□(C9) Stunted □r Stressed Plants (D1) Ge□m□□□c P□siti□n (D2)
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REPORT TO THE PLAN COMMISSION

Meeting of September 4, 2025 Site Plan

RECOMMENDATION: City Development Staff recommends approval of the proposed Site Plan, subject to the conditions of approval in the attached draft resolution.

Project Name: ICAP Site Plan

Property Owner:DEVO Properties / Rawson LLC **Applicant:**Brian Adamson, I-Forest LLC

Property Address/Tax Key Number: 5414 W Rawson Ave. / 741 9004 000

Aldermanic District: District 5

Agent:Brian Adamson, I-Forest LLCZoning District:B-R - Regional Business DistrictUse of Surrounding Properties:B-R - Regional Business District

Application Request: Site Plan

Staff Planner: Marion Ecks, AICP

The applicants request is for approval of a Site Plan to allow for a commercial development consisting of a single-story 22,000 square foot building, 97 parking spaces, bicycle parking, and extensive landscaping which includes green infrastructure to allow for a parking increase. Developments over 20,000 square feet of floor area require Plan Commission approval.

CHARACTER OF THE SITE AND SURROUNDING AREA

The subject property is zoned B-R - Regional Business District. The surrounding properties share the same zoning. The properties to the east have been developed as a Sendik's, a CVS, and a bank. To the west is the new Jilly's Car Wash, to the south is the new Dunkin and to the north is an outlot which contains the stormwater facilities for this parcel, as well as the overall Sendik's development. The site is accessed by internal roads. One of the entrances to the quarry is located to the south across Rawson.

This property is currently vacant.

PROJECT ANALYSIS

The applicant has submitted all required elements for site plan review. Staff provided the applicant with staff comments on August 7, 2025. The structure meets the dimensional and architectural requirements of the B-R zoning district.

The Site Plan proposes a 22,000 square foot single-story office building designed for a medical user, with related parking and landscaping. The structure meets or exceeds glazing and articulation standards on major façades, and complies with lighting and landscaping criteria. Stormwater will be conveyed to the existing shared pond immediately north of this lot. There are no protected natural resources on the lot.

Request for parking increase:

The new UDO establishes parking maximums, a best practice for development standards. The ordinance (Section 15-5-01) allows for 75 parking spaces for developments of this type, with the possibility of an increase of up to 30% additional spaces. This request is subject to the approval of the Zoning Administrator, and must meet the standards of the UDO:

Section 15-5-01.B.2. Parking Increases Allowed. The Zoning Administrator may allow an increase in the number of off-street parking spaces allowed of up to thirty (30) percent of the spaces provided above the maximum when the following provisions are met.

- a. The additional spaces over the maximum are surfaced with a permeable paving system or one hundred (100) percent of the first half (1/2) inch of runoff from the additional parking area is treated with green infrastructure.
- b. Additional parking area landscaping equivalent to an area fifteen (15) percent greater the minimum square feet of parking area landscaping specified in Article 5 is provided.
- c. The parking lot perimeter landscape zone required in Article 5 is at least ten (10) feet in width.
- d. No more than fifty (50) percent of the parking spaces over the maximum parking allowed shall be located in the front yard.

The applicant proposes 97 parking spaces, which is an increase of 30%. Their design has incorporated all necessary elements to meet the provisions of the UDO for a increase in required parking.

STAFF RECOMMENDATION

City Development Staff recommends approval of the proposed Site Plan, subject to the conditions of approval in the attached draft resolution.

Attachments:

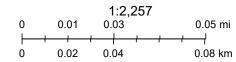
- Site Plan RES
- Applicant Plan Commission Package

City of Franklin Property Viewer



8/25/2025, 3:00:53 PM

Parcel



SE Wisc Reg Planning Comm, SEWRPC, Maxar, Microsoft

STATE OF WISCONSIN

CITY OF FRANKLIN PLAN COMMISSION

MILWAUKEE COUNTY [Draft 08-25-2025]

RESOLUTION NO. 2025-___

A RESOLUTION APPROVING A SITE PLAN FOR THE DEVELOPMENT OF A SINGLE-STORY MEDICAL OFFICE BUILDING WITH ADJACENT PARKING LOCATED AT 5414 WEST RAWSON AVENUE (TAX KEY NO. 741 9004 000) (BRIAN ADAMSON, I-FOREST LLC, APPLICANT, DEVO PROPERTIES/RAWSON LLC, PROPERTY OWNER)

WHEREAS, Brian Adamson, I-Forest LLC having applied for approval of a proposed site plan for the development of a single-story medical office building with general parking, and accessory structures, upon property located at 5414 West Rawson Avenue; and

WHEREAS, the Plan Commission having reviewed such proposal and having found same to be in compliance with the applicable terms and provisions of the Unified Development Ordinance and in furtherance of those express standards and purposes of a site plan review pursuant to §15-9-03.B of the Unified Development Ordinance.

NOW, THEREFORE, BE IT RESOLVED, by the Plan Commission of the City of Franklin, Wisconsin, that the Site Plan for the development of a single-story medical office building, as depicted upon the plans dated August 25, 2025, attached hereto and incorporated herein, is hereby approved, subject to the following terms and conditions:

- 1. The property subject to the Site Plan shall be developed in substantial compliance with, and operated and maintained pursuant to the Site Plan for the Brian Adamson, I-Forest LLC dated August 25, 2025.
- 2. Brian Adamson, I-Forest LLC, successors and assigns, and any developer of the project, shall pay to the City of Franklin the amount of all development compliance, inspection and review fees incurred by the City of Franklin, including fees of consults to the City of Franklin, for the Brian Adamson, I-Forest LLC development project, within 30 days of invoice for same. Any violation of this provision shall be a violation of the Unified Development Ordinance, and subject to §15-9-14 thereof and §1-19 of the Municipal Code, the general penalties and remedies provisions, as amended from time to time.
- 3. The approval granted hereunder is conditional upon the Brian Adamson, I-Forest LLC development project for the property located at 5414 West Rawson Avenue: (i) being in compliance with all applicable governmental laws, statutes, rules, codes, orders and ordinances; and (ii) obtaining all other governmental approvals, permits, licenses and the like, required for and applicable to the project to be developed and as presented for this approval.

BRIAN ADAMSON, I-FOREST LLC – SITE PLAN RESOLUTION NO. 2025-____Page <u>2</u>

AYES _____ NOES ____ ABSENT ____

- 4. That the Brian Adamson, I-Forest LLC Site Plan shall be developed and constructed pursuant to such Site Plan within one year from the date of adoption of this Resolution, or this Resolution and all rights and approvals granted hereunder shall be null and void, without any further action by the City of Franklin.
- 5. The site plan complies with the development standards of Section 15-5-01.B.2 of the Franklin UDO, to allow for a 30 percent increase in the allowable quantity of parking spaces from 75 to 97.

5	the Common Council of the City of Franklin this 2025.
Passed and adopted at a regular regular franklin this day of	meeting of the Common Council of the City of, 2025.
	APPROVED:
ATTEST:	John R. Nelson, Mayor
Shirley J. Roberts, City Clerk	_



August 25, 2025

Marion Ecks, AICP Principal Planner Department of City Development City of Franklin

SUBJECT: REVISED Site Plan Review Submittal

Sendik's Commons Shopping Center

5414 West Rawson Ave.

Property and Location:

The 3.47 acre lot commonly known as 5414 West Rawson Ave (Parcel ID: 741-9004-000). A legal description is included on the survey provided with this submittal (the "Property"). The Property is the last undeveloped lot located in the Sendik's Commons Shopping Center at the intersection of Rawson Ave and 51st. Street. The Property is surrounded by high traffic regional users including a grocery store, pharmacy, coffee shop, and car wash. The Applicant currently has a contractual agreement with the owner to purchase the Property for the purpose of developing the Project (defined below).

Project Description:

I-Franklin LLC, d/b/a ICAP Development (the "Applicant") seeks to construct on the Property a 22,000 square foot multi-service medical building (the "Project"). The single-story building will be leased and operated by Children's Wisconsin, a regional medical provider in the Milwaukee area.

The proposed Project may provide the full spectrum of healthcare services including (a) medical offices, medical clinics and uses related to the provision of medical services, including without limitation, dental care, optical care, physical therapy, physical fitness and health centers, occupational therapy, clinical uses, labs, diagnostic testing, outpatient departments of a hospital, specialty care, primary care, urgent care, mental and behavioral health services, and a day hospital, (b) community and social service uses, including without limitation, counseling, therapy, child advocacy services and foster care services (c) general offices, and (d) any accompanying ancillary uses reasonably related to medical uses, social service uses, or general office uses (including, without limitation, retail sales of prosthetics and/or other products that are related to the medical use).

Additionally, the Project includes high-ceiling gymnasium space which will provide opportunities for physical fitness and physical/occupational therapy.

The Project is anticipated to employ over 48 staff members and host approximately 240+ visitors to the facility per day.

The anticipated hours of operations are 8:30am - 5:00pm Monday – Friday but may vary based on need.

The exterior of the proposed building consists of a mixture of materials including masonry, architectural panels and glass which is meant to complement the surrounding buildings within the shopping center. A comparison of the Project's materials to the adjacent Sendik's building is included in this submittal. Additionally, brick detailing, roofline changes, and window features add further interest to the building design.



The Project is the last remaining lot within the Sendik's Commons Shopping Center and is directly adjacent to Sendik's Food Market. While not directly connected to public right-of-way, access to the Property is granted through vehicular and pedestrian easement agreements with all properties within Sendik's Commons. Two access points from a common private drive aisle are proposed into the Property. This provides multiple ways of ingress/egress for the City's emergency vehicles.

The site layout for the Project consists of the 22,000 square foot building, 97 parking spaces (including eight ADA stalls), six bicycle spaces, and extensive landscaping which includes screening along the rear of the building for the benefit of the residential properties to the north. Stormwater is managed via a common pond off site.

The layout of the Project creates continuity and consistency with other users within Sendik's Commons.

Zoning & Use:

The Property is currently zoned B-R Regional Business. Applicant's proposed use includes 22,000 square feet of medical/wellness space that will house a full spectrum of healthcare services including (a) medical offices, medical clinics and uses related to the provision of medical services, including without limitation, dental care, optical care, physical therapy, physical fitness and health centers, occupational therapy, clinical uses, labs, diagnostic testing, outpatient departments of a hospital, specialty care, primary care, urgent care, mental and behavioral health services, and a day hospital, (b) community and social service uses, including without limitation, counseling, therapy, child advocacy services and foster care services (c) general offices, and (d) any accompanying ancillary uses reasonably related to medical uses, social service uses, or general office uses (including, without limitation, retail sales of prosthetics and/or other products that are related to the medical use).

The proposed Project is a mixture of several uses permitted under zoning and is consistent with the original plans for the Sendik's Commons Shopping Center. Based on discussions with Franklin Planning Staff, it was determined the Project will be considered a mixture of Office and Healthcare Facility from a use standpoint. A summary of the site requirements and the proposed Project conditions is below:

Requirement	Standard in B-R District	PROJECT
Minimum Lot Width	50 Feet	389 Feet
Minimum Lot Depth	110 Feet	421 Feet
Minimum Front Setback	40 Feet	175 Feet
Street Side Setback	40 Feet	NA
Interior Side Setback	10 Feet	40 Feet
Rear Setback	20 Feet	25 Feet
Maximum Building Height	50 Feet	28 Feet
Max Impervious Surface	70%	44.8%
Max Parking Stalls	75	97



Parking Increase:

The Project is anticipated to employ over 48 staff members and host approximately 240+ visitors to the facility per day. As such, the code-allowed parking count of 75 parking spaces would not adequately service this facility, and cross-parking is specifically prohibited within the Sendik's Commons Shopping Center.

Pursuant to Section 15-5-01.B.2 of the Franklin UDO, the Applicant seeks a parking lot increase of 30% and has adjusted the design of the Project to adhere to the four (4) conditions of approval required under this section.

Environmental Considerations:

No Natural Resource Feature Areas were identified. The Natural Resource Protection Plan is included in this submittal. Additionally, no Recognized Environmental Conditions were identified during Applicant's investigation.

Schedule:

Applicant desires to begin development on the Property immediately upon receiving all site and building approvals from the City of Franklin and other authorities having jurisdiction. The Project is estimated to be fully open and operational by the end of 2026.

Request: ICAP Development is very excited to present this development plan to the City of Franklin Planning Staff and respectfully requests review of the Project and Building.

The following documents are included with this submittal:

- Existing Survey of Property
- Site plan of the Project, preliminary grading, paving and utility plans, and a photometric plan
- Detailed Landscaping Plan
- Colored Elevations of Building
- Renderings of Building

Respectfully Submitted,

Brian R Adamson Manager I-Franklin LLC d/b/a ICAP Development LLC



Date: August 7, 2025 Applicant Response 8.22.25

To: Brian Adamson, I-Forest LLC

From: Department of City Development. Marion Ecks, AICP, Principal Planner.

RE: Staff Comments, Site Plan

5414 W Rawson Ave. / 741 9004 000

Please be advised that city staff has reviewed the above application received on June 16, 2025. The following comments are for your review and consideration. The property is zoned B-R - Regional Business District.

Site Plan:

- Note that approval of a Zoning Compliance application is required prior to final occupancy. Understood
- 2. Will there be a trash enclosure or waste management area? This should be shown on plans and screened. A trash enclosure is shown on the site plan (sheet C-4) and a rendering of same is included in the submittal. The enclosure will be built from the same materials as the building.
- 3. Natural Resources: no comments / not applicable. Understood
- 4. Glazing and materials requirements appear to be met; please provide a table with percentages in Plan Commission materials. Percentages have been added to the materials.
- 5. Signage requires separate permitting. Understood

Landscaping

- 6. Ground Cover. All areas not covered by buildings or paving shall be covered with landscaping. The use of conventional sod or turf grass as ground cover should be limited to those areas planned for active or passive recreation use, or other areas where substantial use of the area is anticipated. Standard turf areas have been decreased and no mow turf will be utilized instead. Shortgrass prairie seed mix will be used for the western portion of the site where grading disturbance will not occur.
- 7. What is the area of the parking lot? Please include this information in the table provided. A minimum of ten (10) percent of the interior area of the parking lot shall be landscaped. Parking Lot landscaping calculations are shown on Sheet L-2. The total parking lot area is 38,427 square feet. Interior parking lot landscaping provided is 5,485 square feet.
- 8. Please include the name of the landscape architect on the landscape plan sheets. **Included. Parking**
- 9. The count of 110 parking spaces uses the standard for multitenant retail. The Zoning Administrator has determined that the proposed use to be office and healthcare facility, so the relevant standards (Table 15-5-01(B)) apply. Please recalculate parking accordingly. Note the following:

Parking Increases Allowed (§15-5-01.B.2). The Zoning Administrator may allow an increase in the number of off-street parking spaces allowed of up to thirty (30) percent of the spaces provided above the maximum when the following provisions are met. The Applicant seeks an increase in the allowed parking spaces from 75 parking stalls to 97 parking stalls. The code-allowed parking count of 75 stalls was calculated as follows:



Pa	rking Calculations							
Health Care Facility								
0.5	Stalls Per Examining Rooms for Out-Patient Facilities							
25	Number of Examining Rooms for Out-Patient Facilities							
13	Maximum Number of Stalls for Health Care Facilities							
Office, 50,000 sqft or less								
1/300sf	Number of Stalls for Office							
18,730	Square Footage of Office Spaces (NET of Exam Rooms above)							
62	Maximum Number of Stalls for Office							
75	Maximum Number of Parking Stalls Allowed							

- a. The additional spaces over the maximum are surfaced with a permeable paving system or one hundred (100) percent of the first half (1/2) inch of runoff from the additional parking area is treated with green infrastructure. The Additional Parking is twenty-two 22 stalls. The current design contemplates thirty (30) stalls being directed to a biofiltration basin. This significantly exceeds the requirement of this condition.
- b. Additional parking area landscaping equivalent to an area fifteen (15) percent greater the minimum square feet of parking area landscaping specified in Article 5 is provided. The minimum parking area landscaping required is 3,843 square feet. A 15% increase would result in 4,420 square feet of parking lot landscaping. The current design contemplates 5,485 square feet. This significantly exceeds the requirement of this condition.
- c. The parking lot perimeter landscape zone required in Article 5 is at least ten (10) feet in width. This is achieved.
- d. No more than fifty (50) percent of the parking spaces over the maximum parking allowed shall be located in the front yard. More than 100% of the additional parking spaces are located in the side yard. This significantly exceeds the requirement of this condition

Alternatively, you may request a variance from parking standards.



Lighting

- 10. What is the color temperature? It must be between four thousand (4,000) and five thousand (5,000) degrees Kelvin. Four thousand (4,000) Kelvin is use in the revised calculations.
- 11. Lighting may not exceed 0.5 footcandles at property lines. Staff recommends relocation or removal of lightpole OA3 or additional shielding.
 A maximum of 0.5 footcandles at

lightpole OA3 or additional shielding. A maximum of 0.5 footcandles at the property lines is shown in the revised plans.

Engineering Department Comments:

- Engineering has no comments on the site plan
- A review of the civil plans are in process
- Storm water run off will be reviewed

Fire Department Comments:

- 1. Follow all relevant WI DSPS and IBC code requirements for fire protection systems for given occupancy, use, and construction types.
- 2. Fire Department Connection (FDC), and hydrant placement and density must be acceptable to AHJ.
- 3. Master Key set required for placement in Knox Box.
- 4. Permitting and submittal instructions for fire protection system review and inspection can be found at: https://www.franklinwi.gov/Departments/Fire.htm

Inspection Services Department Comments:

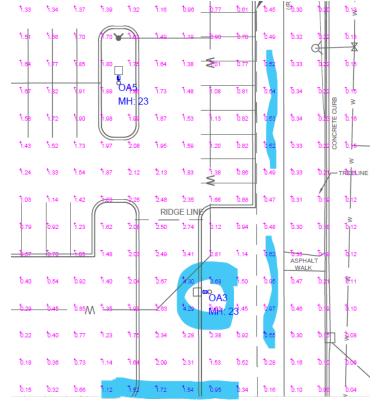
Building must be constructed per the Wisconsin Commercial Building Code SPS 361-366

Recommended Conditions of Approval

Note that all resolutions and ordinances are drafted with a standard set of condition relating to development timelines and requirements, approvals from other jurisdictions and departments, etc. Staff may recommend additional conditions based on review of these applications for compliance with the Unified Development Ordinance.

Attachments:

- 1. Variance application form.
- 2. Zoning Compliance application form.



Lot 3 of Certified Survey Map No. 9488, recorded in the office of the Register of Deeds for Milwaukee County, Wisconsin, on May 12, 2023, as Document No. 11336892, being a redivision of all of Lot 1 of Certified Survey Map No. 8120, located in the Southeast 1/4 of the Southwest 1/4 of Section 2, Township 5 North, Range 21 East, in the City of Franklin, County of Milwaukee, State of Wisconsin.

Tax Key No. 741-9004-000

INDEX OF SHEETS

COVER SHEET

GENERAL NOTES

3. STONE BASE COURSE

4. TRENCH BACKFILL

5. PIPE BEDDING

6. TIE BARS

C-1

C-2

C-3

C-4

C-5

C-6

C-7

L-1

L-2

L-3

PLANS PREPARED FOR

ICAP DEVELOPMENT

1830 N. HUBBARD ST

MILWAUKEE, WI

C-8 - C-9

7. DOWEL BARS

8. DOWEL BAR BASKETS

REQUIRED SUBMITTALS FOR RECORDS

1. WATER MAIN PIPE FITTINGS

2. SANITARY SEWER

3. STORM SEWER 4. SUBGRADE STABILIZATION (IF APPLICABLE)

PROJECT TEAM CONTACTS

CIVIL ENGINEER:

PINNACLE ENGINEERING GROUP 20725 WATERTOWN ROAD, SUITE 100 BROOKFIELD, WI 53186

todd.mueller@pinnacle-engr.com

(262) 754-8888

JOHN KONOPACKI, P.L.S PINNACLE ENGINEERING GROUP 20725 WATERTOWN ROAD, SUITE 100 BROOKFIELD, WI 53186

John.Konopacki@pinnacle-engr.com

(414) 810-7613 tschneider@gdg-architects.com **APPLICANT:** BRIAN R. ADAMSON **ICAP DEVELOPMENT**

1830 N HUBBARD ST, SUITE 700 MILWAUKEE, WI 53212 (414) 412-8633 brian.adamson@icap-dev.com

ARCHITECT: THOMAS SCHNEIDER, AIA

GROTH DESIGN GROUP

MILWAUKEE, WI 53204

600 WEST VIRGINIA ST, SUITE 602

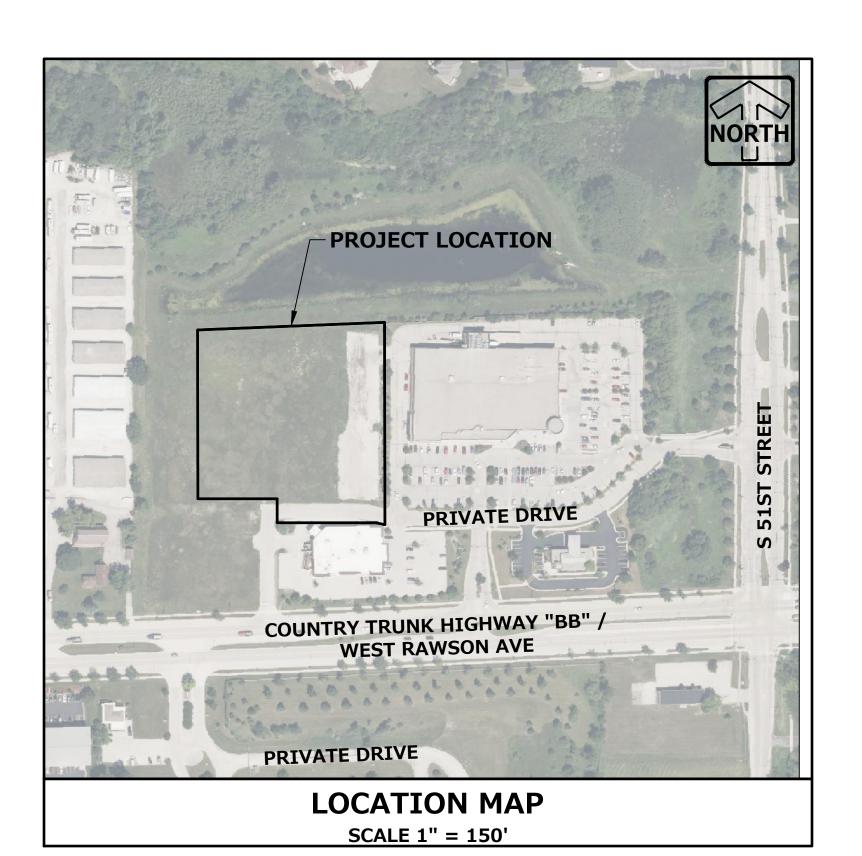
www.DiggersHotline.com

ICAP DEVELOPMENT -FRANKLIN MEDICAL OFFICE

ONSITE CIVIL ENGINEERING INFRASTRUCTURE PLANS

FOR

CITY OF FRANKLIN, MILWAUKEE



EDGE OF PAVEMEN RIGHT-OF-WAY FINISHED FLOOR SANITARY SEWER FINISHED GRADE TANGENCY OF CURVE TOP OF BANK TOP OF CURB

RADIUS

NATIVE SOIL INTERFACE

POINT OF VERTICAL INTERSECTION

NORMAL WATER LEVEL

POINT OF CURVATURE

POINT OF TANGENCY

ABBREVIATIONS

LEGEND

SANITARY MANHOLE STORM MANHOLE

CONCRETE HEADWA

PRECAST FLARED END SECTION

CATCH BASIN

VALVE VAULT VALVE BOX FIRE HYDRAN

BUFFALO BOX

SANITARY SEWE

FORCE MAIN

STORM SEWER

WATER MAIN

UTILITY CROSSING

ELECTRICAL CABLE

POWER POLE

GUY WIRE STREET SIGN

GAS MAIN

TELEPHONE LINE

SPOT ELEVATION

WETLANDS

FLOODPLAIN

NORMAL WATER LEVEL (NWL

DIRECTION OF SURFACE FLOV

OVERFLOW RELIEF ROUTING

FENCE LINE, TEMPORARY SIL

FENCE LINE, CHAIN LINK OR IRON

FENCE LINE WOOD OR PLASTIC

REVERSE PITCH CURB & GUTTEF

DIVERSION SWALE

SOIL BORING TOPSOIL PROBE

FENCE LINE, WIRE

CONCRETE SIDEWALK

DEPRESSED CURB

EASEMENT LINE PROPERTY LINE

BASE LINE

LONG CHORD OF CURVE

CURB AND GUTTER

DEGREE OF CURV

CATCH BASIN

CENTERLINE

FLOW LINE

FLOODPLAIN

HIGH WATER LEVE

LENGTH OF CURVE

MANHOLE

GRANULAR TRENCH BACKFIL

FLECTRICAL TRANSFORMER

POWER POLE WITH LIGHT

CLEANOUT

PROPOSED

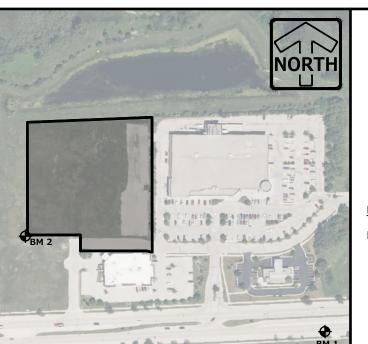
BENCHMARKS

TOP OF SIDEWALK

INTERSECTION ANGLE

TOP OF WALK

WATER MAIN



REFERENCE BENCHMARK SOUTHEAST CORNER OF THE SOUTHEAST 1/4 SECTION 2, TOWN 5 NORTH, RANGE 21 EAST,

NORTH AMERICAN VERTICAL DATUM OF 1988(12).

GENERAL NOTES

- THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO SET FORTH PERFORMANCE AND CONSTRUCTION MATERIAL STANDARDS FOR THE PROPER EXECUTION OF WORK. ALL WORKS CONTAINED WITHIN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS FROM LOCAL, STATE, FEDERAL OR OTHER GOVERNING AGENCY'S LAWS, REGULATIONS. JURISDICTIONAL ORDINANCES/CODES/RULES/ETC.. AND THE OWNER'S DIRECTION
- A GEOTECHNICAL REPORT FOR THIS SITE HAS NOT BEEN PREPARED AT THIS TIME. THE DATA ON SUB-SURFACE SOIL CONDITIONS IS NOT INTENDED AS A REPRESENTATION OR WARRANTY OF THE CONTINUITY OF SUCH CONDITIONS BETWEEN BORINGS OR INDICATED SAMPLING LOCATIONS. IT SHALL BE EXPRESSLY UNDERSTOOD THAT OWNER WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN THERE FROM BY THE CONTRACTOR. DATA IS MADE AVAILABLE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY ADDITIONAL SOILS INVESTIGATIONS THEY FEEL IS NECESSARY FOR THE PROPER EVALUATION OF THE SITE FOR PURPOSES OF PLANNING, BIDDING, OR CONSTRUCTING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL COMPONENTS OF THE PLANS AND SPECIFICATIONS INCLUDING FIELD VERIFYING SOIL CONDITIONS, PRIOR TO SUBMISSION OF A BID PROPOSAL.
- THE CONTRACTOR SHALL PROMPTLY REPORT ANY ERRORS OR AMBIGUITIES LEARNED AS PART OF THEIR REVIEW OF PLANS, SPECIFICATIONS. REPORTS AND FIELD INVESTIGATIONS THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COMPUTATION OF QUANTITIES AND WORK REQUIRED TO COMPLETE THIS
- PROJECT. THE CONTRACTOR'S BID SHALL BE BASED ON ITS OWN COMPUTATIONS AND IN NO SUCH INSTANCE RELY ON THE
- PRIOR TO START OF WORK, CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL CONDITIONS OF THE SITE, AND SHALL ACCOUNT FOR CONDITIONS THAT AFFECT, OR MAY AFFECT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LIMITATIONS OF WORK ACCESS, SPACE LIMITATIONS, OVERHEAD OBSTRUCTIONS, TRAFFIC PATTERNS, LOCAL REQUIREMENTS, ADJACENT

ACTIVITIES, ETC. FAILURE TO CONSIDER SITE CONDITIONS SHALL NOT BE CAUSE FOR CLAIM OF JOB EXTRAS.

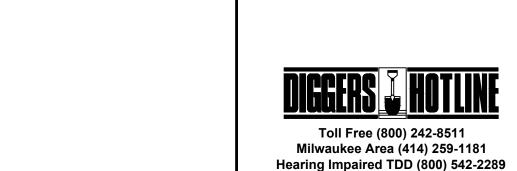
ENGINEER/OWNER WILL SUBMIT OFFICIAL RESPONSES IN WRITING. INTERPRETATIONS PRESENTED IN OFFICIAL RESPONSES SHALL

BE BINDING ON ALL PARTIES ASSOCIATED WITH THE CONTRACT. IN NO WAY SHALL WORD-OF-MOUTH DIALOG CONSTITUTE AN

- COMMENCEMENT OF CONSTRUCTION SHALL EXPLICITLY CONFIRM THAT THE CONTRACTOR HAS REVIEWED THE PLANS AND SPECIFICATIONS IN ENTIRETY AND CERTIFIES THAT THEIR SUBMITTED BID PROPOSAL CONTAINS PROVISIONS TO COMPLETE THE PROJECT. WITH THE EXCEPTION OF UNFORESEEN FIELD CONDITIONS; ALL APPLICABLE PERMITS HAVE BEEN OBTAINED; AND CONTRACTOR UNDERSTANDS ALL OF THE REQUIREMENTS OF THE PROJECT
- CONTRACT, ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY AND CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES/CONFLICTS SHALL NOT COMMENCE. OR CONTINUE. UNTIL A WRITTEN RESPONSE FROM ENGINEER/OWNER IS DISTRIBUTED. IN THE EVENT OF A CONFLICT BETWEEN REFERENCED CODES, STANDARDS, SPECIFICATIONS AND PLANS, THE ONE
- THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS AND LICENSES TO COMPLETE THE PROJECT. OBTAINING PERMITS, OR DELAYS, IS NOT CAUSE FOR DELAY OF THE CONTRACT OR SCHEDULE. CONTRACTOR SHALL COMPLY
- 11. THE CONTRACTOR SHALL NOTIFY ALL INTERESTED GOVERNING AGENCIES, UTILITY COMPANIES AFFECTED BY THIS CONSTRUCTION PROJECT. AND DIGGER'S HOTLINE IN ADVANCE OF CONSTRUCTION TO COMPLY WITH ALL JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., PERMIT STIPULATIONS, AND OTHER APPLICABLE STANDARDS
- 12. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO INITIATE, INSTITUTE, ENFORCE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS AND JOB SITE SAFETY PROGRAMS IN CONNECTION WITH THE
- WORKING MANNER SUCH THAT DEBRIS IS REMOVED CONTINUOUSLY AND ALL RESPECTIVE CONTRACTORS OPERATE UNDER 14. THE CONTRACTOR SHALL INDEMNIFY THE VILLAGE, VILLAGE ENGINEER, VILLAGE BUILDING INSPECTOR, OWNER, ENGINEER, AND THEIR AGENTS FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION. INSTALLATION, AND TESTING OF THE WORK ON THIS

13. CONTRACTOR SHALL KEEP THE JOBSITE CLEAN AND ORDERLY AT ALL TIMES. ALL LOCATIONS OF THE SITE SHALL BE KEPT IN A

15. PRIOR TO CONSTRUCTION, A PRECONSTRUCTION MEETING MUST BE HELD AT THE VILLAGE OFFICES. THE PRECONSTRUCTION MEETING SHALL BE SCHEDULED AND MODERATED BY THE DESIGN ENGINEER OF RECORD.



EXPIRATION DATE: JULY 31, 2026

PINNACLE ENGINEERING GROUP, LLC **ENGINEER'S LIMITATION**

PINNACLE ENGINEERING GROUP, LLC AND THEIR CONSULTANTS DO NOT WARRANT OR GUARANTEE TH ACCURACY AND COMPLETENESS OF THE DELIVERABLES HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE DELIVERABLES, THE ENGINEER SHALL BE PROMPTLY NOTIFIED PRIOR TO BID SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT TO THE ENGINEER, OR IN CONTRADICTION TO THE ENGINEER'S DELIVERABLES OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER BUT OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

FURTHERMORE, PINNACLE ENGINEERING GROUP, LLC IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY OR THE MEANS AND METHODS OF CONSTRUCTION.



PLAN I DESIGN I DELIVER

ICAP DEVELOPMENT - FRANKLIN

5414 WEST RAWSON AVE CITY OF FRANKLIN, MILWAUKEE **COVER SHEET**

REVISIONS

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SITE AND DIMENSIONAL PLAN NOTES

- ALL DIMENSIONS ARE EDGE OF PAVEMENT, FACE OF CURB, SHOULDER, OR CENTER OF LANE LINE UNLESS NOTED OTHERWISE. ALL UTILITY DIMENSIONS ARE TO OUTSIDE OF PIPE OR CENTER OF STRUCTURE UNLESS OTHERWISE NOTED.
- ALL PROPOSED CURB AND GUTTER SHALL BE 18" STANDARD CURB AND GUTTER (SEE DETAIL). UNLESS OTHERWISE NOTED. CURB AND GUTTER DRAINING AWAY FROM THE FACE OF CURB IS NOTED AS REVERSE CURB AND GUTTER.
- BUILDING DIMENSIONS AND ADJACENT PARKING AND 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 DIGGERS HOTLINE (1-800-242-8511) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENT
- IMPROVEMENTS ADJACENT TO BUILDING IF SHOWN SUCH AS TRUCK DOCK, RETAINING WALLS, SIDEWALKS, CURBING, FENCES, CANOPIES, RAMPS, HANDICAP ACCESS, PLANTERS, DUMPSTERS, AND TRANSFORMERS ETC. HAVE BEEN SHOWN FOR APPROXIMATE LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS, SPECIFICATIONS, AND DETAILS.
- REFER TO ELECTRICAL PLANS FOR LIGHTING LOCATIONS, SPECIFICATIONS, AND
- SEE ADDITIONAL NOTES AND DETAILS ON CONSTRUCTION DETAILS.
- ALL PAVING SHALL CONFORM TO STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY & STRUCTURE CONSTRUCTION, LATEST EDITION AND APPLICABLE CITY OF FRANKLIN ORDINANCES, AND SPECIFICATIONS CONTAINED WITHIN THIS PLAN SET.
- PAVEMENT DESIGN SHALL BE AS INDICATED ON TEMPLATE EXHIBIT DRAWINGS, TENANTS PAVEMENT DESIGN GUIDELINES. AND PROTOTYPICAL DETAILS PROVIDED CONTRACTOR SHALL USE WHITE EPOXY STRIPING ON ASPHALT AND YELLOW EPOXY STRIPING ON CONCRETE.
- PROVIDE CONTRACTOR GRADE ACRYLIC, STRIPING EPOXY FOR NEW ASPHALT OR COATED ASPHALT. APPLY MARKING EPOXY AT A RATE OF ONE (1) GALLON PER THREE TO FOUR HUNDRED (300-400) LINEAL FEET OF FOUR (4) INCH WIDE STRIPES OR TO MANUFACTURER'S SPECIFICATION, WHICHEVER IS GREATER.
- THOROUGHLY CLEAN SURFACES FREE OF DIRT, SAND, GRAVEL, OIL AND OTHER FOREIGN MATTER. CONTRACTOR RESPONSIBLE TO INSPECT EXISTING PAVEMENT SURFACES FOR CONDITIONS AND DEFECTS THAT WILL ADVERSELY AFFECT QUALITY OF WORK, AND WHICH CANNOT BE PUT INTO AN ACCEPTABLE CONDITION THROUGH NORMAL PREPARATORY WORK AS SPECIFIED.
- DO NOT PLACE MARKING OVER UNSOUND PAVEMENTS. IF THESE CONDITIONS EXIST NOTIFY OWNER. STARTING INSTALLATION CONSTITUTES CONTRACTOR'S ACCEPTANCE OF SURFACE AS SUITABLE FOR INSTALLATION.
- LAYOUT MARKINGS USING GUIDE LINES, TEMPLATES AND FORMS. STENCILS AND TEMPLATES SHALL BE PROFESSIONALLY MADE TO INDUSTRY STANDARDS. "FREE HAND" PAINTING OF ARROWS, SYMBOLS, OR WORDING SHALL NOT BE ALLOWED. APPLY STRIPES STRAIGHT AND EVEN.
- . PROTECT ADJACENT CURBS, WALKS, FENCES, AND OTHER ITEMS FROM RECEIVING
- 15. BARRICADE MARKED AREAS DURING INSTALLATION AND UNTIL THE MARKING PAINT IS DRIED AND READY FOR TRAFFIC.
- 16. ASPHALTIC CONCRETE PAVING SPECIFICATIONS
- 16.1. CODES AND STANDARDS: THE PLACING, CONSTRUCTION AND COMPOSITION OF THE ASPHALTIC BASE COURSE AND ASPHALTIC CONCRETE SURFACING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460 AND 465 OF THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION. HEREAFTER, THIS PUBLICATION WILL BE REFERRED TO AS THE STATE HIGHWAY SPECIFICATIONS.
- WEATHER LIMITATIONS: APPLY TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 50° F (10° C) AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35° F (1° C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS EXCESS OF MOISTURE.CONSTRUCT ASPHALTIC CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40° (4°C) AND WHEN BASE IS DRY AND WHEN WEATHER IS NOT RAINY. BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30° F (-1° C).
- GRADE CONTROL: ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.
- CRUSHED AGGREGATE BASE COURSE: THE TOP LAYER OF BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS.
- BINDER COURSE AGGREGATE: THE AGGREGATE FOR THE BINDER COURSE SHALL CONFORM TO SECTIONS 460.2.7 AND 315. STATE HIGHWAY SPECIFICATIONS.
- 16.6. SURFACE COURSE AGGREGATE: THE AGGREGATE FOR THE SURFACE COURSE SHALL CONFORM TO SECTIONS 460.2.7 AND 465, STATE HIGHWAY SPECIFICATIONS.
- ASPHALTIC MATERIALS: THE ASPHALTIC MATERIALS SHALL CONFORM TO SECTION 455 AND 460, STATE HIGHWAY SPECIFICATIONS.
- SURFACE PREPARATION: NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
- TRAFFIC CONTROL SHALL BE PER M.U.T.C.D.
- 18. PUBLIC CURB & GUTTER REPLACEMENT SHALL BE TIED TO EXISTING CURB & GUTTER WITH #4 TIE BARS. PUBLIC CURB & GUTTER SHALL BE A 6-BAG MIX.
- 19. TIE BARS: PLACE AT ALL LONGITUDINAL JOINTS IN ENTRANCE AREAS/ROADS PER WISDOT 13C01. PLACE IN CURB AND GUTTER PER WISDOT 8D01.

GRADING NOTES

- CONTRACTOR SHALL VERIFY ALL GRADES, ENSURE ALL AREAS DRAIN PROPERLY AND REPORT ANY DISCREPANCIES TO PINNACLE ENGINEERING GROUP PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
- ALL EXISTING CONTOURS REPRESENT EXISTING SURFACE GRADES UNLESS OTHERWISE NOTED. ALL PROPOSED GRADES SHOWN ARE FINISH SURFACE GRADES UNLESS OTHERWISE NOTED.
- SPOT ELEVATIONS REPRESENT THE GRADE ALONG THE CURB AND GUTTER FLANGELINE UNLESS OTHERWISE NOTED.
- ALL EXCAVATIONS AND MATERIAL PLACEMENT SHALL BE COMPLETED TO DESIGN ELEVATIONS AS DEPICTED IN THE PLANS.
- 4.1. CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATION(S) OF ALL GRADING QUANTITIES. WHILE PEG ATTEMPTS TO PROVIDE A COST EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARD OF CARE, THEREFORE NO GUARANTEE CAN BE MADE FOR A BALANCED SITE. THE CONTRACTOR MAY SOLICIT APPROVAL FROM ENGINEER/OWNER TO ADJUST FINAL GRADES FROM DESIGN GRADES TO PROVIDE AN OVERALL SITE BALANCE AS A RESULT OF FIELD CONDITIONS.
- GRADING ACTIVITIES SHALL BE IN A MANNER TO ALLOW POSITIVE DRAINAGE ACROSS DISTURBED SOILS, WHICH MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES TO PREVENT PONDING, AND IF NECESSARY PUMPING TO ALLEVIATE PONDING. CONTRACTOR SHALL PREVENT SURFACE WATER FROM ENTERING INTO EXCAVATIONS. IN NO WAY SHALL OWNER BE RESPONSIBLE FOR REMEDIATION OF UNSUITABLE SOILS CREATED/ORIGINATED AS A RESULT OF IMPROPER SITE GRADING OR SEQUENCING. CONTRACTOR SHALL SEQUENCE GRADING ACTIVITIES TO LIMIT EXPOSURE OF DISTURBED SOILS DUE TO WEATHER.
- THE CONTRACTOR IS RESPONSIBLE FOR MEETING MINIMUM COMPACTION STANDARDS. THE CONTRACTOR SHALL NOTIFY ENGINEER/OWNER IF PROPER COMPACTION CANNOT BE OBTAINED. THE PROJECT'S GEOTECHNICAL CONSULTANT SHALL DETERMINE WHICH IN-SITU SOILS ARE TO BE CONSIDERED UNSUITABLE SOILS. THE ENGINEER/OWNER AND GEOTECHNICAL TESTING CONSULTANT WILL DETERMINE IF REMEDIAL MEASURES WILL BE NECESSARY.
- IN THE EVENT THAT ANY MOISTURE-DENSITY TEST(S) FAIL TO MEET SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL PERFORM CORRECTIVE WORK AS NECESSARY TO BRING THE MATERIAL INTO COMPLIANCE AND RETEST THE FAILED AREA AT NO COST TO THE OWNER.
- WITH THE AUTHORIZATION OF THE ENGINEER/OWNER, MATERIAL THAT IS TOO WET TO PERMIT PROPER COMPACTION MAY BE SPREAD ON FILL AREAS IN AN EFFORT TO DRY. CONTRACTOR SHALL CLEARLY FIELD MARK THE EXTERIOR LIMITS OF SPREAD MATERIAL WITH PAINTED LATH AND SUBMIT A PLAN TO THE ENGINEER/OWNER THAT IDENTIFIES THE LIMITS. UNDER NO CONDITION SHALL THE SPREAD MATERIAL DEPTH EXCEED THE MOST RESTRICTIVE OF: THE EFFECTIVE TREATMENT DEPTH OF MACHINERY THAT WILL BE USED TO TURNOVER THE SPREAD MATERIAL; OR THE MAXIMUM COMPACTION LIFT DEPTH.
- THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER/OWNER IF GROUNDWATE IS ENCOUNTERED DURING EXCAVATION. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ADEQUATE AND SAFE TEMPORARY SHORING, BRACING, RETENTION STRUCTURES, AND EXCAVATIONS.
- THE SITE SHALL BE COMPLETED TO WITHIN 0.10-FT (+/-) OF THE PROPOSED GRADES AS INDICATED WITHIN THE PLANS PRIOR TO PLACEMENT OF TOPSOIL OR STONE. CONTRACTOR IS ENCOURAGED TO SEQUENCE CONSTRUCTION SUCH THAT THE SITE IS DIVIDED INTO SMALLER AREAS TO ALLOW STABILIZATION OF DISTURBED SOILS IMMEDIATELY UPON COMPLETION OF INDIVIDUAL SMALLER AREAS.
- 11. CONTRACTOR SHALL CONTACT "DIGGER'S HOTLINE" FOR LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR PROTECTING SAID UTILITIES FROM ANY DAMAGE DURING CONSTRUCTION.
- CONTRACTOR SHALL PROTECT INLETS AND ADJACENT PROPERTIES WITH SILT FENCING OR APPROVED EROSION CONTROL METHODS UNTIL CONSTRUCTION IS COMPLETED. CONTRACTOR SHALL PLACE SILT FENCING AT DOWN SLOPE SIDE OF GRADING LIMITS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING FACILITIES OR UTILITIES. ANY DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
- 4. WORK WITHIN ANY ROADWAY RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPAL OFFICIAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES. GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS. RESTORATION OF RIGHT-OF-WAY IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF GRADING. RESTORATION SHALL INCLUDE ALL ITEMS NECESSARY TO RESTORE RIGHT-OF-WAY IN-KIND INCLUDING LANDSCAPING.
- 15. CONTRACTOR SHALL COMPLY WITH ALL CITY OF FRANKLIN AND MILWAUKEE COUNTY CONSTRUCTION STANDARDS/ORDINANCES.
- 16. LANDSCAPE AND TURF AREAS SHALL HAVE A MINIMUM OF 4-INCH TOPSOIL REPLACEMENT, UNLESS OTHERWISE SPECIFIED ON THE LANDSCAPE PLANS.
- 17. TOPSOIL BERMING SHALL ACHIEVE 90% STANDARD PROCTOR DENSITY AT 3%(±) OPTIMUM MOISTURE CONTENT.
- 18. SURVEY BENCHMARKS AND MAPPING HAS BEEN PROVIDED BY PINNACLE ENGINEERING GROUP. IN NO WAY DOES PEG WARRANT THE BASEMAP IS ALL INCLUSIVE OR REPRESENTATIVE OF ACTUAL CONDITIONS. CONTRACTOR SHALL PROVIDE CHECKS AS NECESSARY TO VERIFY THE BASEMAP CONTENT AND ACCURACY.

GENERAL UTILITY NOTES

- EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE TYPE, LOCATION, SIZE AND ELEVATION OF UNDERGROUND UTILITIES AS THEY DEEM NECESSARY FOR PROPOSED UTILITY CONNECTIONS AND/OR TO AVOID DAMAGE THERETO. CONTRACTOR SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.
- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (LATEST EDITION AND ADDENDUM) AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.
- UTILITY CONSTRUCTION AND SPECIFICATIONS SHALL COMPLY WITH THE CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS AND WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES SPS 382.
- LENGTHS OF PROPOSED UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS ARE SHOWN FOR CONTRACTOR CONVENIENCE ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPUTATIONS OF MATERIALS REQUIRED TO COMPLETE WORK. LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION.
- CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT EXISTING UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH FINISHED GRADES OF THE AREAS DISTURBED DURING CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY LOCATIONS, ELEVATIONS, AND SIZES OF PROPOSED UTILITIES AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS PRIOR TO ATTEMPTING CONNECTIONS AND BEGINNING UTILITY CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
- ALL NEW ON-SITE SANITARY, STORM AND WATER UTILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE PROPERTY OWNER, EXCEPT FOR THOSE UTILITIES IDENTIFIED AS PUBLIC.
- THE CONTRACTOR SHALL CONTACT THE CITY OF FRANKLIN PUBLIC WORKS DEPARTMENT 48-HOURS IN ADVANCE OF SANITARY, WATER AND STORM CONNECTIONS TO THE VILLAGE-OWNED SYSTEM TO SCHEDULE INSPECTIONS.
- ROUTING OF GAS, ELECTRIC AND TELEPHONE SERVICES ARE SHOWN ON THE ARCHITECTURAL PLANS 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.
- . IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE PROPER AUTHORITIES FOR ANY REQUIRED PERMITS, AUTHORIZATIONS, TRAFFIC CONTROL AND
- FIELD TILE CONNECTION ALL FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE(S) FOR STORM SEWER. TILE LINES CROSSED BY THE TRENCH SHALL BE REPLACED WITH THE SAME MATERIAL AS THE STORM
- THE CONTRACTOR IS RESPONSIBLE FOR THE SIZE, TYPE AND NUMBER OF WATER MAIN BENDS. HORIZONTAL AND VERTICAL. REQUIRED TO COMPLETE CONSTRUCTION. COST FOR BENDS, HORIZONTAL AND VERTICAL, SHALL BE INCIDENTAL AND INCLUDED IN THE OVERALL COST OF THE CONTRACT.
- TRACER WIRE: COPPERHEAD TRACER WIRE #10 SOLID CCS SUPERFLEX (BLUE). WIRE CONNECTORS SHALL BE SNAKEBITE (BLUE) MADE BY COPPERHEAD INDUSTRIES, LLC. THE TRACER WIRE FOR THE SANITARY SEWER LATERAL (GREEN) SHALL BE CONTINUOUS AND SHALL BE EXTENDED ABOVE GRADE VIA A 4-INCH PVC PIPE WITH SCREW-ON CAP ADJACENT TO THE PROPOSED TERMINATION POINT OF THE LATERAL FOR THE PROPOSED BUILDING. TRACER WIRE FOR WATER MAIN SHALL BE INSTALLED WITH #12-GAUGE TRACER WIRE AND SHALL TERMINATE IN TRACER WIRE ACCESS BOXES AT ALL FIRE HYDRANTS.
- WATER MAIN AND SANITARY SEWER SHALL BE INSULATED WHEREVER THE DEPTH OF COVER IS LESS THAN 6.5 FEET. INSULATION AND PLACING OF INSULATION SHALL CONFORM TO CHAPTER 4.17.0 "INSULATION" OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN 6TH EDITION UPDATED WITH ITS LATEST ADDENDUM (TYP.).
- SEE UTILITY PLANS AND CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION.

STORM SEWER NOTES

- PIPE REINFORCED CONCRETE PIPE (RCP) SHALL MEET THE REQUIREMENTS OF ASTM CLASS C-76 WITH RUBBER GASKET JOINTS CONFORMING TO ASTM C-443. STRENGTH CLASSIFICATIONS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
- HEIGHT OF COVER (FEET): 0-2 2-3 3-6 6-15 15-25 25+
- MINIMUM CONCRETE PIPE CLASSIFICATION: IV III II III IV ENGINEER TO SPECIFY
- HIGH DENSITY DUAL-WALL POLYETHYLENE N-12 CORRUGATED PIPE (HDPE) SHALL BE AS MANUFACTURED BY ADS OR EQUAL WITH WATER TIGHT JOINTS, AND SHALL MEET THE REQUIREMENTS OF AASHTO DESIGNATION M-294 TYPE "S", OR POLYVINYL CHLORIDE (PVC) - CLASS PS46 MEETING AASHTO M278, AS NOTED. IF HDPE PIPE IS USED FOR POND OUTFALLS, A MINIMUM OF THREE (3) SECTIONS (2 STRAPS) SHALL BE
- INLETS INLETS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FILE NO. 25 OF THE "STANDARD SPECIFICATIONS" WITH A 1'-8" X 2'-6" MAXIMUM OPENING. SEE CONSTRUCTION DETAILS FOR FRAME AND GRATE TYPES. STRUCTURE SHOP DRAWINGS SHALL BE SUBMITTED TO PINNACLE ENGINEERING GROUP FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURING AND INSTALLATION.
- BACKFILL AND BEDDING STORM SEWER SHALL BE CONSTRUCTED WITH GRAVEL BACKFILL AND CLASS "B" BEDDING IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL.
- LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS". MANHOLE FRAMES AND COVERS - SEE CONSTRUCTION DETAILS.
- IF HDPE PIPE IS USED FOR POND OUTFALLS, A MINIMUM OF THREE (3) SECTIONS (2) STRAPS) SHALL BE STRAPPED TOGETHER. 15. TRACER WIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF THESE CODE SECTIONS AS PER 182.0715(2R) OF THE STATUTES.

WATER MAIN NOTES

- PIPE WATER MAIN SHALL BE POLYVINYL CHLORIDE (PVC) PIPE MEETING THE REQUIREMENTS OF AWWA STANDARD C-900, CLASS 235, DR-18, WITH CAST IRON O.D. AND INTEGRAL ELASTOMERIC BELL AND SPIGOT JOINTS.
- VALVES AND VALVE BOXES GATE VALVES SHALL BE AWWA GATE VALVES MEETING THE REQUIREMENTS OF AWWA C-500 AND CHAPTER 8.27.0 OF THE "STANDARD SPECIFICATIONS". GATE VALVES AND VALVE BOXES SHALL CONFORM TO LOCAL PLUMBING ORDINANCES.
- HYDRANTS HYDRANTS SHALL CONFORM TO THE CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS AND IN ACCORDANCE WITH FILE NO. 38 OF THE "STANDARD SPECIFICATIONS." THE DISTANCE FROM THE GROUND LINE TO THE CENTERLINE OF THE LOWEST NOZZLE AND THE LOWEST CONNECTION OF THE FIRE DEPARTMENT SHALL BE NO LESS THAN 18-INCHES AND NO GREATER THAN 24-INCHES. HYDRANT MANUFACTURE: WATEROUS PACER WITH WATER SERIES 2500 VALVES.
- BEDDING AND COVER MATERIAL PIPE BEDDING AND COVER MATERIAL SHALL BE SAND, CRUSHED STONE CHIPS OR CRUSHED STONE SCREENINGS CONFORMING TO CHAPTER 8.43.2 OF THE "STANDARD SPECIFICATIONS".
- ALL DUCTILE FITTINGS, VALVES, AND VALVE BOXES SHALL CONFORM WITH ALL CITY OF FRANKLIN STANDARD SPECIFICATIONS FOR DEVELOPMENT AND SHALL BE TRIPLE WRAPPED AND SECURELY TAPED AROUND WITH POLYETHYLENE AS SPECIFIED IN CHAPTER 4.4.4 AND 8.21.0 OF THE "STANDARD SPECIFICATIONS".
- BACKFILL BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE WITH CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS".
- GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL.
- SLURRY BACK FILL UNDER PUBLIC ROAD PAVEMENT. SLURRY LIMITS: FROM TOP OF COVER STONE TO PAVEMENT. SLURRY TO BE 1-BAG PORTLAND MIX
- LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS".

SANITARY SEWER NOTES

- PIPE SANITARY SEWER PIPE MATERIAL SHALL BE POLYVINYL CHLORIDE (PVC) MEETING REQUIREMENTS OF ASTM D 3034, SDR-35 (UP TO 15' OF COVER) & SDR-26 (GREATER THAN 15'), WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS MEETING THE REQUIREMENTS OF ASTM D-3212.
- BEDDING AND COVER MATERIAL BEDDING AND COVER MATERIAL SHALL CONFORM TO THE APPROPRIATE SECTIONS OF THE "STANDARD SPECIFICATION" WITH THE FOLLOWING MODIFICATION: "COVER MATERIAL SHALL BE THE SAME AS USED FOR BEDDING AND SHALL CONFORM TO SECTION 8.43.2 (A).
- BEDDING AND COVER MATERIAL SHALL BE PLACED IN A MINIMUM OF THREE SEPARATE LIFTS, OR AS REQUIRED TO INSURE ADEQUATE COMPACTING OF THESE MATERIALS. WITH ONE LIFT OF BEDDING MATERIAL ENDING AT OR NEAR THE SPRINGLINE OF THE PIPE. THE CONTRACTOR SHALL TAKE CARE TO COMPLETELY WORK BEDDING MATERIAL UNDER THE HAUNCH OF THE PIPE TO PROVIDE ADEQUATE SIDE SUPPORT."
- BACKFILL BACKFILL MATERIAL AND INSTALLATION SHALL BE IN ACCORDANCE CHAPTER 2.6.0 OF THE "STANDARD SPECIFICATIONS."
- SLURRY BACK FILL UNDER PUBLIC ROAD PAVEMENT. SLURRY LIMITS: FROM TOP OF COVER STONE TO PAVEMENT. SLURRY TO BE 1-BAG PORTLAND MIX.
- GRAVEL BACKFILL IS REQUIRED IN ALL PAVED AREAS AND TO A POINT 5 FEET BEYOND THE EDGE OF PAVEMENT. TRENCHES RUNNING PARALLEL TO AND LESS THAN 5 FEET FROM THE EDGE OF PAVEMENT SHALL ALSO REQUIRE GRAVEL BACKFILL.
- LANDSCAPED AREAS MAY BE BACKFILLED WITH EXCAVATED MATERIAL IN CONFORMANCE WITH SECTION 8.43.5 OF THE "STANDARD SPECIFICATIONS."
- MANHOLES MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH FILE NOS. 12 13 AND 15 OF THE "STANDARD SPECIFICATIONS" AND ALL STANDARDS AND SPECIFICATIONS OF THE CITY OF FRANKLIN. STRUCTURE SHOP DRAWINGS SHALL BE SUBMITTED TO PINNACLE ENGINEERING GROUP FOR REVIEW AND APPROVAL PRIOR TO MANUFACTURING AND INSTALLATION.
- MANHOLE FRAMES AND COVERS MANHOLE FRAMES AND COVERS SHALL BE NEENAH R-1661.

EROSION & SEDIMENT CONTROL NOTES

- ALL CONSTRUCTION SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER GENERAL PERMIT ("WPDES" PERMIT NO. WI-S067831-4) FOR CONSTRUCTION SITE LAND DISTURBANCE ACTIVITIES. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL TECHNICAL STANDARDS AND PROVISIONS IN EFFECT AT THE TIME OF CONSTRUCTION. THESE PROCEDURES AND STANDARDS SHALL BE REFERRED TO AS BEST MANAGEMENT PRACTICES (BMP'S). IT IS THE RESPONSIBILITY OF ALL CONTRACTORS ASSOCIATED WITH THE PROJECT TO OBTAIN A COPY OF, AND UNDERSTAND, THE BMP'S PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL CONTROL MEASURES AS DIRECTED BY OWNER/ENGINEER OR GOVERNING AGENCIES SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST
- MODIFICATIONS TO THE APPROVED SWPPP IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS ARE ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL MODIFICATIONS MUST BE APPROVED BY OWNER/ENGINEER/GOVERNING AGENCY PRIOR TO DEVIATION OF THE APPROVED PLAN.
- INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN IN ORDER TO PROTECT ADJACENT PROPERTIES/STORM SEWER SYSTEMS FROM SEDIMENT TRANSPORT
- CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATION(S) WITH THE PROPER AUTHORITIES, PROVIDE NECESSARY FEES AND OBTAIN ALL REQUIRED APPROVALS OR PERMITS. ADDITIONAL CONSTRUCTION ENTRANCES OTHER THAN AS SHOWN ON THE PLANS MUST BE APPROVED BY THE APPLICABLE GOVERNING AGENCIES PRIOR TO INSTALLATION.
- PAVED SURFACES ADJACENT TO CONSTRUCTION ENTRANCES SHALL BE SWEPT AND/OR SCRAPED TO REMOVE ACCUMULATED SOIL. DIRT AND/OR DUST IMMEDIATELY AND AS REQUESTED BY THE GOVERNING AGENCIES.
- ALL EXISTING STORM SEWER FACILITIES THAT WILL COLLECT RUNOFF FROM DISTURBED AREAS SHALL BE PROTECTED TO TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS. INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND SILT FENCE SHALL BE IMMEDIATELY FITTED AT ALL INSTALLED CULVERT INLETS. ALL INLETS, STRUCTURES,
- PIPES, AND SWALES SHALL BE KEPT CLEAN AND FREE OF SEDIMENTATION AND DEBRIS EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, WATER MAIN, ETC.) OUTSIDE OF THE PERIMETER CONTROLS SHALL INCORPORATE THE FOLLOWING:

PREVENT ANY DIRECT DISCHARGE FROM DISTURBED SOILS.

- 8.1. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
- 8.2. BACKFILL, COMPACT AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.

8.3. DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK

- IN ACCORDANCE WITH BMP'S PRIOR TO RELEASE INTO STORM SEWER OR AT A MINIMUM, SEDIMENT BASINS AND NECESSARY TEMPORARY DRAINAGE PROVISIONS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE BEGINNING OF
- SIGNIFICANT MASS GRADING OPERATIONS TO PREVENT OFFSITE DISCHARGE OF UNTREATED RUNOFF. . ALL WATERCOURSES AND WETLANDS SHALL BE PROTECTED WITH SILT FENCE TO

- 11. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION. THE OWNER WILL BE RESPONSIBLE IF EROSION CONTROL IS REQUIRED AFTER THE CONTRACTOR HAS COMPLETED THE PROJECT.
- 12. TOPSOIL STOCKPILES SHALL HAVE A BERM OR TRENCH AROUND THE CIRCUMFERENCE AND PERIMETER SILT FENCE TO CONTROL SILT. IF TOPSOIL STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IS REQUIRED.
- 13. EROSION CONTROL MEASURES TEMPORARILY REMOVED FOR UNAVOIDABLE CONSTRUCTION ACTIVITIES SHALL BE IN WORKING ORDER IMMEDIATELY FOLLOWING COMPLETION OF SUCH ACTIVITIES OR PRIOR TO THE COMPLETION OF EACH WORK DAY, WHICH EVER OCCURS FIRST.
- 14. MAINTAIN SOIL EROSION CONTROL DEVICES THROUGH THE DURATION OF THIS PROJECT. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. DISTURBANCES ASSOCIATED WITH EROSION CONTROL REMOVAL SHALL BE IMMEDIATELY STABILIZED.
- 15. PUMPS MAY BE USED AS BYPASS DEVICES. IN NO CASE SHALL PUMPED WATER BE DIVERTED OUTSIDE THE PROJECT LIMITS. PUMP DISCHARGE SHALL BE DIRECTED INTO AN APPROVED FILTER BAG OR APPROVED SETTLING DEVICE.
- 16. GRADING EFFORTS SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY OR PERMANENT MEASURES. ALL DISTURBED AREAS THAT WILL NOT BE WORKED FOR A PERIOD OF FOURTEEN (14) DAYS REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR
- 17. ALL DISTURBED SLOPES 4:1 OR GREATER, SHALL BE STABILIZED WITH NORTH AMERICAN GREEN S75BN EROSION MATTING (OR APPROVED EQUAL) AND ALL CHANNELS SHALL BE STABILIZED WITH NORTH AMERICAN GREEN C125BN (OR APPROVED EQUAL) OR APPLICATION OF AN APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S

EROSION CONTROL SHALL BE IN ACCORDANCE WITH TECHNICAL STANDARDS.

- . DURING PERIODS OF EXTENDED DRY WEATHER, THE CONTRACTOR SHALL KEEP A WATER TRUCK ON SITE FOR THE PURPOSE OF WATERING DOWN SOILS WHICH MAY OTHERWISE BECOME AIRBORNE.THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING WIND EROSION (DUST) DURING CONSTRUCTION AT HIS/HER EXPENSE.
- 19. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE VISUALLY INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM ON A DAILY
- 20. QUALIFIED PERSONNEL (PROVIDED BY THE GENERAL/PRIME CONTRACTOR) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED AND EROSION AND SEDIMENT CONTROLS WITHIN 24 HOURS OF ALL 0.5-INCH, OR MORE, PRECIPITATION EVENTS WITH A MINIMUM INSPECTION INTERVAL OF ONCE EVERY SEVEN (7) CALENDAR DAYS IN THE ABSENCE OF A QUALIFYING RAIN OR SNOWFALL EVENT. REPORTING SHALL BE IN ACCORDANCE WITH OF THE GENERAL PERMIT. CONTRACTOR SHALL IMMEDIATELY ARRANGE TO HAVE ANY DEFICIENT ITEMS REVEALED DURING INSPECTIONS REPAIRED/REPLACED.
- 21. SEE ADDITIONAL DETAILS AND NOTES ON SITE STABILIZATION AND CONSTRUCTION DETAILS.

PINNACLE ENGINEERING GROUP

PLAN I DESIGN I DELIVER

20725 WATERTOWN ROAD, SUITE 100

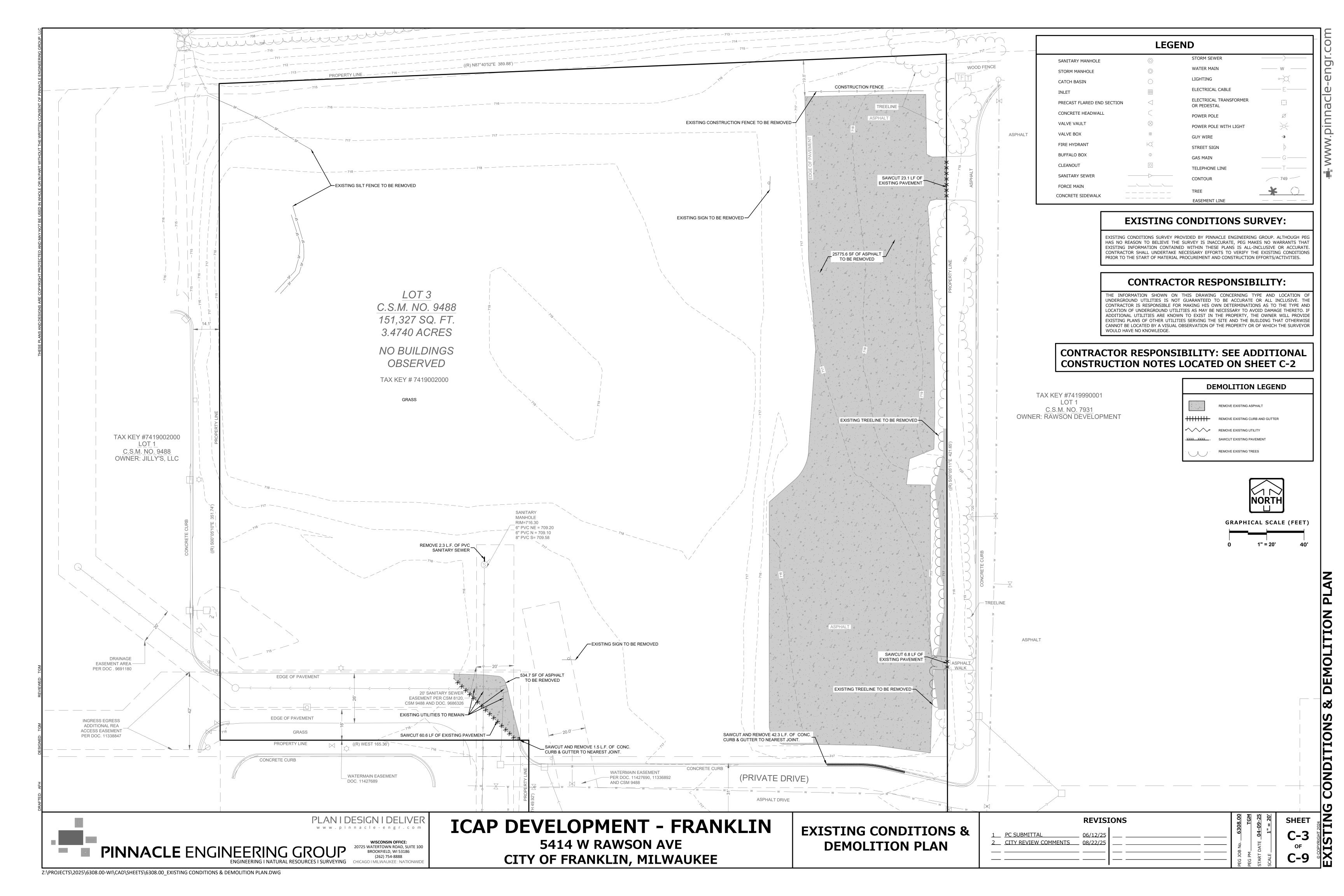
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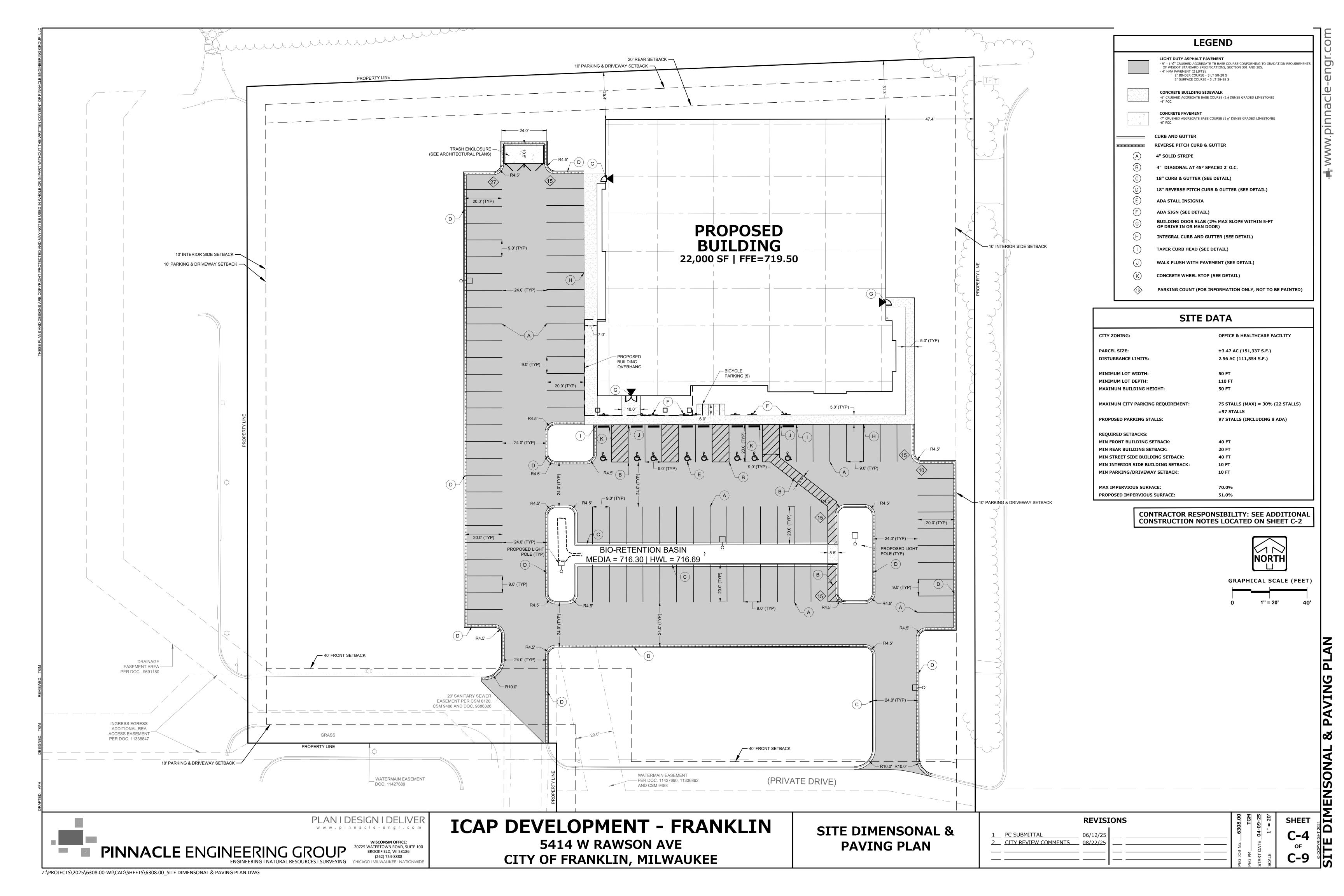
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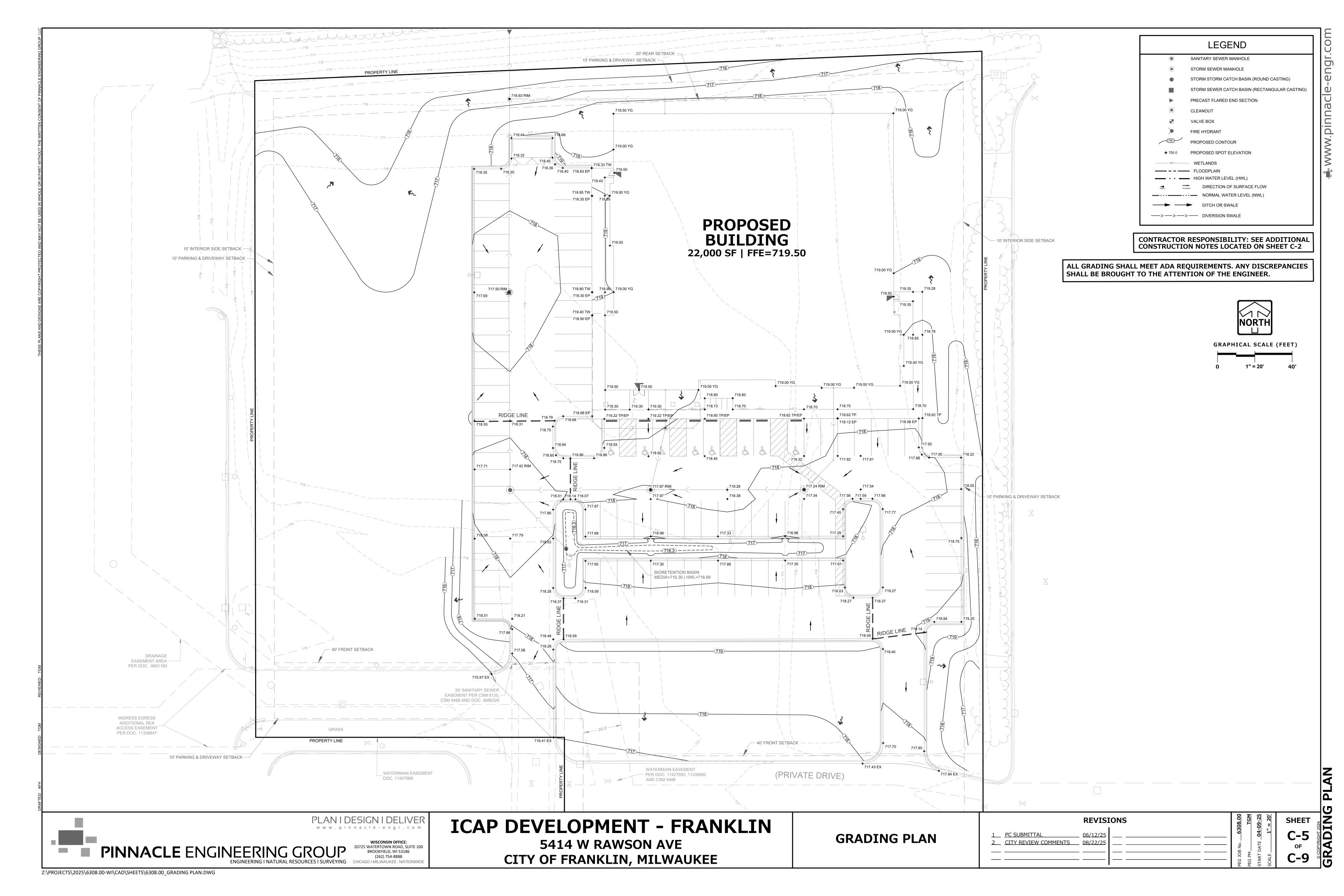
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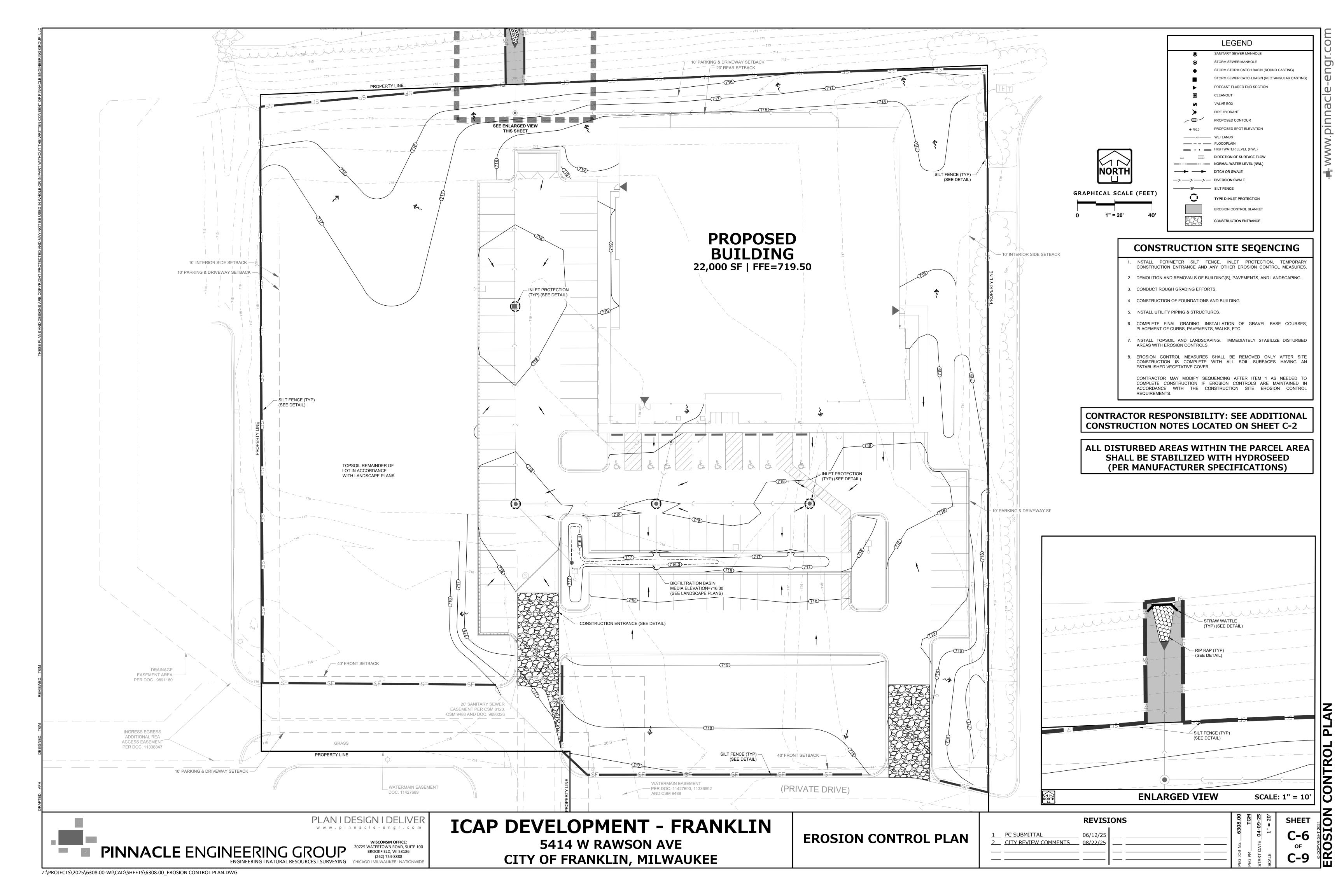
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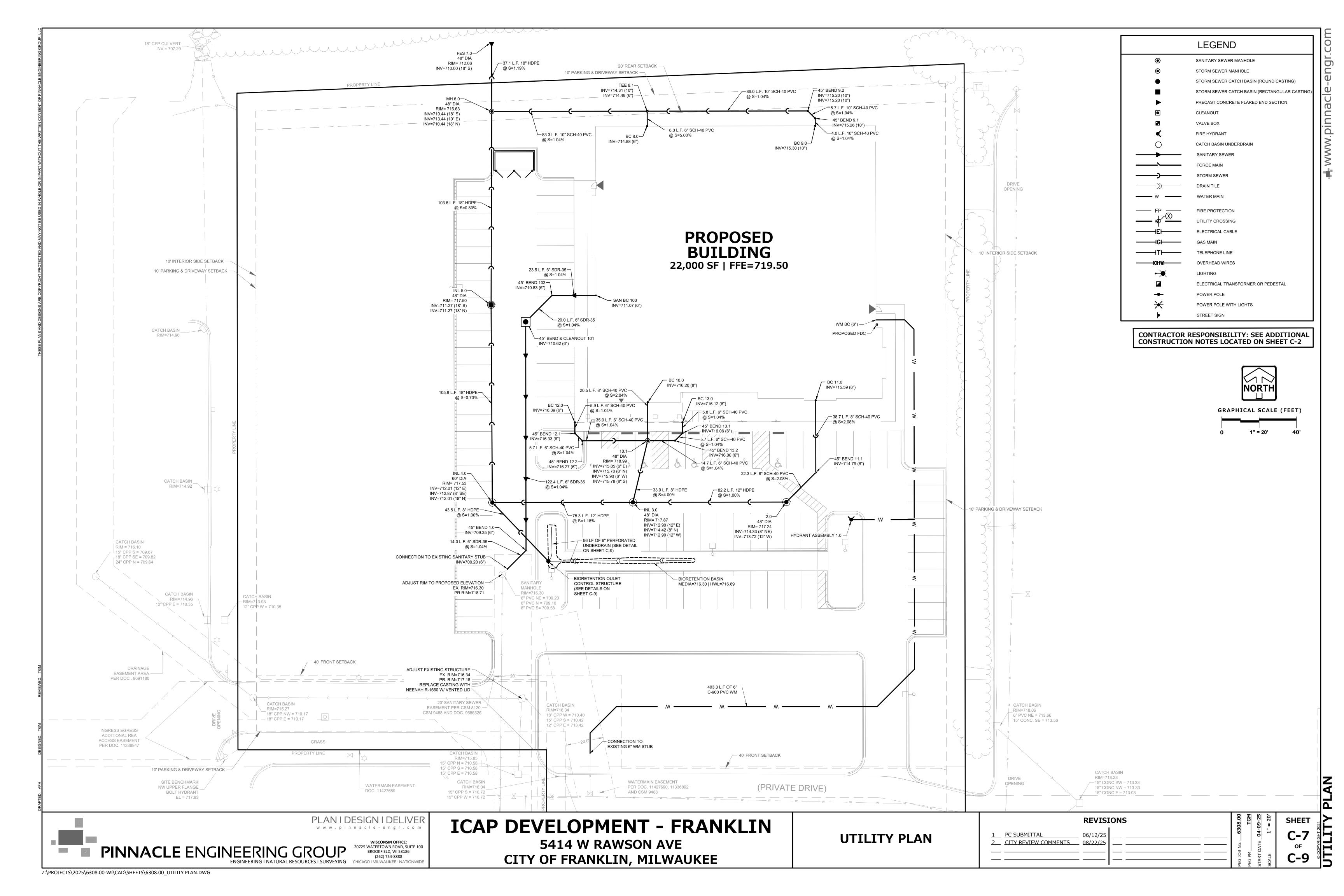
SHEET











SIVEN THE PROPOSED ACTIVITY ON THE PROJECT SITE, THE PRIMARY POTENTIAL POLLUTANT SOURCE ASSOCIATED WITH THIS CONSTRUCTION PROJECT

SHALL BE PLACED TO CONSTRUCT DIVERSION BERMING OR PLACED WITHIN THE STOCKPILE LIMITS

IS SOIL EROSION AND TRANSPORTATION: REFER TO SECTION 4 OF THIS PLAN. ADDITIONAL POTENTIAL SOURCES OF POLLUTION MAY INCLUDE: FUEL TANKS, WASTE CONTAINERS, OIL OR OTHER PETROLEUM PRODUCTS, DETERGENTS, PAINTS, CONSTRUCTION DEBRIS, SANITARY STATIONS, FERTILIZERS, AND DUST; REFER TO SECTION 5 OF THIS PLAN.

2.0 EROSION AND SEDIMENT CONTROL IMPLEMENTATION

1.0 POTENTIAL POLLUTANT SOURCES

THE FOLLOWING ARE DESCRIPTIONS OF THE EROSION AND SEDIMENT CONTROL PRACTICES THAT SHALL BE IMPLEMENTED DURING CONSTRUCTION OF HIS PROJECT. IN ADDITION TO THESE MEASURES, CONTRACTOR SHALL DISTURB ONLY AREAS NECESSARY TO COMPLETE THE CONSTRUCTION PROJECT. ALL PRACTICES SHALL BE CONDUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES (BMP).

2.1 CONSTRUCTION AND EROSION CONTROL SEQUENCING

CONSTRUCTION SEQUENCING WILL BE UTILIZED AS A MEANS OF CONTROLLING EROSION AND LIMITING SEDIMENT TRANSPORT. SEQUENCING AS LISTED BELOW IS GENERAL IN NATURE AND MAY VARY DEPENDING ON WEATHER CONDITIONS AND/OR PHASING OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SITE SEQUENCING PLAN TO OWNER FOR APPROVAL AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION CTIVITIES. CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM 6 AS NEEDED TO COMPLETE CONSTRUCTION ONLY IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL REQUIREMENTS.

- 1. INSTALL TEMPORARY CONSTRUCTION ENTRANCES, INLET PROTECTION ON EXISTING STORM SEWER AND CULVERT INLET LOCATIONS, AND PERIMETER SILT FENCING.
- INSTALL SILT FENCING ALONG THE PERIMETER OF PROPOSED TOPSOIL STOCKPILE LOCATIONS. THE FIRST TOPSOIL DEPOSITED WITHIN THE STOCKPILE LIMITS SHALL BE PLACED TO CREATE TEMPORARY BERMING ALONG THE SILT FENCE TO PREVENT DIRECT STORMWATER RUNOFF
- AGAINST SILT FENCING. CONTRACTOR SHALL LIMIT LAND DISTURBING ACTIVITIES ASSOCIATED WITH TEMPORARY BERMING TO A MINIMUM. 3. STRIP TOPSOIL WITHIN THE LIMITS OF THE SEDIMENT TRAPS THAT WILL BE USED FOR TEMPORARY SEDIMENT CONTROL. STRIPPED TOPSOIL
- 4. STRIP TOPSOIL ALONG THE REMAINDER OF DIVERSION BERMING AND IMMEDIATELY PLACE TOPSOIL TO CREATE THE BERMING. MASS TOPSOIL
- STRIPPING SHALL NOT OCCUR UNTIL ALL DOWNSTREAM SEDIMENT CONTROLS ARE IN PLACE 5. CONDUCT ROUGH GRADING OPERATIONS AND UTILITY PIPING INSTALLATION. DRAIN TILE SHALL NOT BE INSTALLED UNTIL UPLAND AREAS
- CONTRIBUTING STORMWATER RUNOFF ARE STABILIZED. DITCH CHECKS SHALL BE INSTALLED WITHIN DRAINAGE DITCHES IMMEDIATELY FOLLOWING CREATION OF DITCHES AND INLET PROTECTION SHALL BE INSTALLED TO PROTECT ANY STORM SEWER OR CULVERTS THAT WILL
- 6. FINE GRADE SUB-GRADE SOILS WITHIN PAVEMENT AND BUILDING LIMITS. PLACE STONE BASE MATERIAL AS SOON AS POSSIBLE FOLLOWING
- FINE GRADE REMAINING DISTURBED AREAS. PLACE SALVAGED TOPSOIL, EROSION BLANKETS/MATTING, AND SEED/MULCH AS SOON AS POSSIBLE
- 8. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF SILT FENCE, TEMPORARY FENCING/PRETECTION, DITCH CHECKS, AND OTHER TEMPORARY CONTROLS, AND RESTORATION PRACTICES AS NECESSARY, TO THE SATISFACTION OF THE OWNER.

2.2 STABILIZATION PRACTICES

THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED, SHALL BE RECORDED ON THE STABILIZATION SCHEDULE FOR MAJOR GRADING ACTIVITIES. TABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED UNLESS:

THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION MEASURE SHALL BE INITIATED AS SOON AS PRACTICABLE.

CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITIES CEASED. (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAYS). IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED. SEE THE SOIL PROTECTION CHART PRESENTED IN THE CONSTRUCTION DOCUMENTS FOR RATES OF PERMANENT AND

TABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME CONSTRUCTION ACTIVITY HAS CEASED. INCLUDING BUT NOT IMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES.

PERMANENT SEEDING; IN ACCORDANCE WITH APPROVED LANDSCAPING PLAN TEMPORARY SEEDING MAY CONSIST OF SPRING OATS (100LBS/ACRE) AND/OR WHEAT OR CEREAL RYE (150LBS/ACRE) HYDRO-MULCHING WITH A TACKIFIER GEOTEXTILE EROSION MATTING

2.3 STRUCTURAL PRACTICES

HE FOLLOWING ARE DESCRIPTIONS OF STRUCTURAL PRACTICES TO BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS, OR THERWISE LIMIT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE INCLUDING THE PROPOSED AND EXISTING WETLAND AREAS. SUCH PRACTICES COULD INCLUDE SILT FENCE, PROTECTION FENCE, CONSTRUCTION ENTRANCE, DITCH CHECK, EROSION CONTROL MATTING, DIVERSION 5.0 INSPECTION BERM/SWALE SEDIMENT TRAP LEVEL SPREADER INLET PROTECTION OUTLET PROTECTION AND TEMPORARY OR PERMANENT SEDIMENT BASIN THE FOLLOWING STRUCTURAL PRACTICES ARE TO BE UTILIZED DURING THIS PROJECT.

SILT FENCE SHALL BE PLACED DOWN SLOPE OF DISTURBED AREAS OF THE CONSTRUCTION SITE AND AROUND THE PERIMETER OF THE TOPSOIL FOCKPILE. THIS INCLUDES PROTECTION OF EXISTING WETLAND AREAS TO BE MAINTAINED. SILT FENCE MAY ALSO BE USED AS A TEMPORARY CONTROL DEVICE WHERE SEDIMENTATION RUNOFF IS DISCOVERED.

CONSTRUCTION ENTRANCE SHALL BE INSTALLED TO REDUCE SOIL EROSION POLLUTANTS FROM LEAVING THE SITE DURING CONSTRUCTION CTIVITIES. IF THE CRUSHED STONE DOES NOT ADEQUATELY REMOVE MUD FROM VEHICLE TIRES, THEY SHALL BE HOSED OFF BEFORE ENTERING A PAVED ROADWAY. ANY SOIL DEPOSITED ON THE PUBLIC PAVED ROAD WAY SHALL BE REMOVED IMMEDIATELY.

<u>EROSION CONTROL MATTING</u> SHALL BE PLACED ON AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, BEFORE VEGETATION IS ESTABLISHED.

<u>SION BERM/SWALE</u> SHALL BE CONSTRUCTED TO DIVERT RUNOFF AROUND THE SITE AND TO DIVERT RUNOFF FROM THE DISTURBED AREA TO A SEDIMENT TRAP OR OTHER CONTROL. BERMS/SWALES SHALL BE STABILIZED WITH EQUIPMENT TRACKING AND TEMPORARY SEEDING <u>SEDIMENT TRAPS/BASIN</u> SHALL BE CONSTRUCTED TO COLLECT RUNOFF AND RUNOFF FROM SITE DIVERSION BERMS/SWALES.

INLET PROTECTION SHALL BE INSTALLED AT STORMWATER DRAINAGE INLETS TO REDUCE SEDIMENT WITHIN STORM SEWER CONVEYANCE

<u>OUTLET SCOUR PROTECTION</u> SHALL BE INSTALLED AT STORMWATER DRAINAGE OUTLETS TO DIFFUSE FLOWS.

<u>DITCH CHECK (STRAW BALES)</u> SHALL BE INSTALLED IN DRAINAGE CHANNELS AS NEEDED.

ADDITIONAL POLLUTANT CONTROL MEASURES TO BE IMPLEMENTED DURING CONSTRUCTION ACTIVITIES SHALL INCLUDE, BUT NOT BE LIMITED TO THE

CONSTRUCTION WASTE SHALL BE PROPERLY DISPOSED OF. THIS INCLUDES ALL CONSTRUCTION SITE WASTE MATERIAL, SANITARY WASTE, AND WASTE FROM VEHICLE TRACKING OF SEDIMENTS. THE CONTRACTOR SHALL ENSURE THAT NO MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, BURNED, OR DISCHARGED TO THE WATERS OF THE STATE. VEHICLES HAULING MATERIAL AWAY FROM THE SITE SHALL BE COVERED WITH A TARPAULIN TO PREVENT BLOWING DEBRIS.

<u>DUST CONTROL</u> SHALL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS: COVERING 30% OR MORE OF THE SOIL SURFACE WITH A NON-ERODIBLE MATERIAL.

ROUGHENING (EQUIPMENT TRACKING) THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND. RIDGES SHALL BE AT LEAST

PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES, PARKING AREAS AND TRANSIT PATHS.

STREET SWEEPING SHALL BE PERFORMED TO IMMEDIATELY REMOVE ANY SEDIMENT TRACKED ON PAVEMENTS.

4.0 EROSION AND SEDIMENT STRUCTURAL PRACTICE MAINTENANCE

FREQUENT WATERING OF EXCAVATION AND FILL AREAS.

THE FOLLOWING MAINTENANCE PRACTICES SHALL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN. UPON IDENTIFICATION, DEFICIENCIES IN STORMWATER CONTROLS SHALL BE ADDRESSED IMMEDIATELY. THE MAINTENANCE PROCEDURES FOR THIS DEVELOPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO THE

<u>SILT FENCE</u> - REPAIR OR REPLACE ANY DAMAGED FILTER FABRIC AND/OR STAKES. REMOVE ACCUMULATED SEDIMENT WHEN IT HAS REACHED ONE-HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

CONSTRUCTION ENTRANCE - AS NEEDED, ADD STONE TO MAINTAIN CONSTRUCTION ENTRANCE DIMENSIONS AND EFFECTIVENESS. <u>DITCH CHECK (STRAW BALES)</u> - RE-SECURE STAKES; ADJUST OR REPOSITION BALES TO ADDRESS PROPER FLOW OF STORMWATER; AND REMOVE UMULATED SEDIMENT WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE BALE.

EROSION CONTROL MATTING - REPAIR MATTING IMMEDIATELY IF INSPECTION REVEALS BREACHED OR FAILED CONDITIONS. REPAIR AND RE-GRADE

$\underline{\textit{DIVERSION BERM/SWALE}} \text{ - REPLACE OR RE-COMPACT THE CONSTRUCTION MATERIALS AS NECESSARY}.$

SEDIMENT TRAP - REMOVE AND DISPOSE OF THE ACCUMULATED SEDIMENT WHEN IT HAS REACHED THE SEDIMENT STORAGE ELEVATION. I<u>NLET PROTECTION</u> - CLEAN, REPAIR OR REPLACE FILTER FABRIC AND/OR STONE WHEN CONTROL MEASURE IS CLOGGED. INLET FILTER BAGS SHALL

OUTLET PROTECTION - CLEAN, REPAIR OR REPLACE FILTER FABRIC, TURF REINFORCEMENT MATTING AND/OR STONE WHEN CONTROL MEASURE IS

<u>SEDIMENT BASIN</u> - AT THE END OF CONSTRUCTION, CONTRACTOR SHALL REMOVE AND DISPOSE OF THE ACCUMULATED SEDIMENT AND RESTORE BASIN AREA TO INTENDED POST-CONSTRUCTION DESIGN GRADES.

INSPECTIONS SHALL BE COMPLETED WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS ONE-HALF INCH OR GREATER OR EQUIVALENT SNOWFALL, OR AT A MINIMUM ONCE EVERY SEVEN (7) CALENDAR DAYS, INSPECTIONS SHALL BE UNDERTAKEN BY QUALIFIED PERSONNEL PROVIDED BY THE CONTRACTOR, AND SHALL INCLUDE: DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. A STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT SHALL BE COMPLETED AND ADDED TO THE SWPPP. RAINFALL SHALL BE RECORDED ON THE SWPPP RAINFALL LOG. CONTRACTOR SHALL IMMEDIATELY ARRANGE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED OR DEFICIENT CONTROL MEASURES OBSERVED DURING THE

QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER, A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, A CERTIFIED EROSION SEDIMENT OR

6.0 SPILL PREVENTION

6.1 GENERAL MATERIAL MANAGEMENT PRACTICES

THE GOOD HOUSEKEEPING PRACTICES LISTED BELOW SHALL BE FOLLOWED THROUGHOUT THE CONSTRUCTION PROJECT.

. CONTRACTOR SHALL STORE ONLY ENOUGH PRODUCTS REQUIRED TO COMPLETE THIS PROJECT. ALL MATERIAL SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL CONTAINERS CONTAINING MANUFACTURER'S LABEL. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.

MATERIALS REQUIRED TO HAVE A MATERIAL SAFETY DATA SHEET (MSDS) SHALL HAVE A COPY STORED IN THE PROJECT'S MSDS DATABASE. 6.2 SPILL CONTROL PRACTICES

THE PRACTICES LISTED BELOW SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE MAINTAINED ONSITE. IMMEDIATELY UPON DISCOVERY, ALL SPILLS SHALL BE CLEANED UP ACCORDING TO THE MANUFACTURERS' RECOMMENDED METHODS.
- PERSONNEL CLEANING UP A SPILL SHALL USE PERSONAL PROTECTIVE EQUIPMENT. IMMEDIATELY UPON DISCOVERY, SPILLS OF TOXIC OR HAZARDOUS MATERIALS SHALL BE REPORTED TO THE OWNER AND GENERAL CONTRACTOR. 5. NOTIFICATION AND REPORTING TO THE APPROPRIATE FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES SHALL BE MADE AS REQUIRED.

GENERAL INFORMATION:

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO FULFILL ONE OF THE REQUIREMENTS OF THE GENERAL ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (WISCONSIN POLLUTION DISCHARGE ELIMINATION SYSTEM "WPDES" PERMIT NO. WI-S067831-4) FOR THE DISCHARGE OF STORMWATER ASSOCIATED WITH CONSTRUCTION PROJECTS DISTURBING ONE ACRE OR MORE. THE OWNER AND CONTRACTORS SHALL COMPLY WITH ALL REQUIREMENTS OF THE WPDES FOR ALL SUCH CONSTRUCTION PROJECTS. THE STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY FROM THIS SITE ARE SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF

THE EXECUTED OWNER CERTIFICATION AND THE CONTRACTOR CERTIFICATIONS SHALL BE KEPT ONSITE WITH THE APPROVED PLANS.

THE OWNER SHALL RETAIN A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF THE PROJECT INITIATION TO THE DATE OF FINAL

SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SITE ACTIVITY. IN ADDITION, THE THE PLAN SHALL BE AMENDED TO IDENTIFY ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A MEASURE OF THE PLAN. AMENDMENTS TO THE PLAN MAY BE REQUIRED BY THE MUNICIPALITY, OWNER, OR OTHER REVIEWING AGENCY. COPIES OF THE AMENDMENTS SHALL BE KEPT ONSITE AS PART OF THE SWPPP.

THE CONTRACTOR SHALL AMEND THE PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A

THE OWNER SHALL RETAIN COPIES OF THIS AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY THE REQUEST OF THE AGENCY AT ANY TIME. IN ADDITION, THE OWNER SHALL RETAIN A COPY OF THE PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

A NOTICE OF INTENT (NOI) APPLICATION MUST BE COMPLETED AND INCORPORATED INTO THE SWPPP.

WPDES NOTICE OF TERMINATION GUIDANCE:

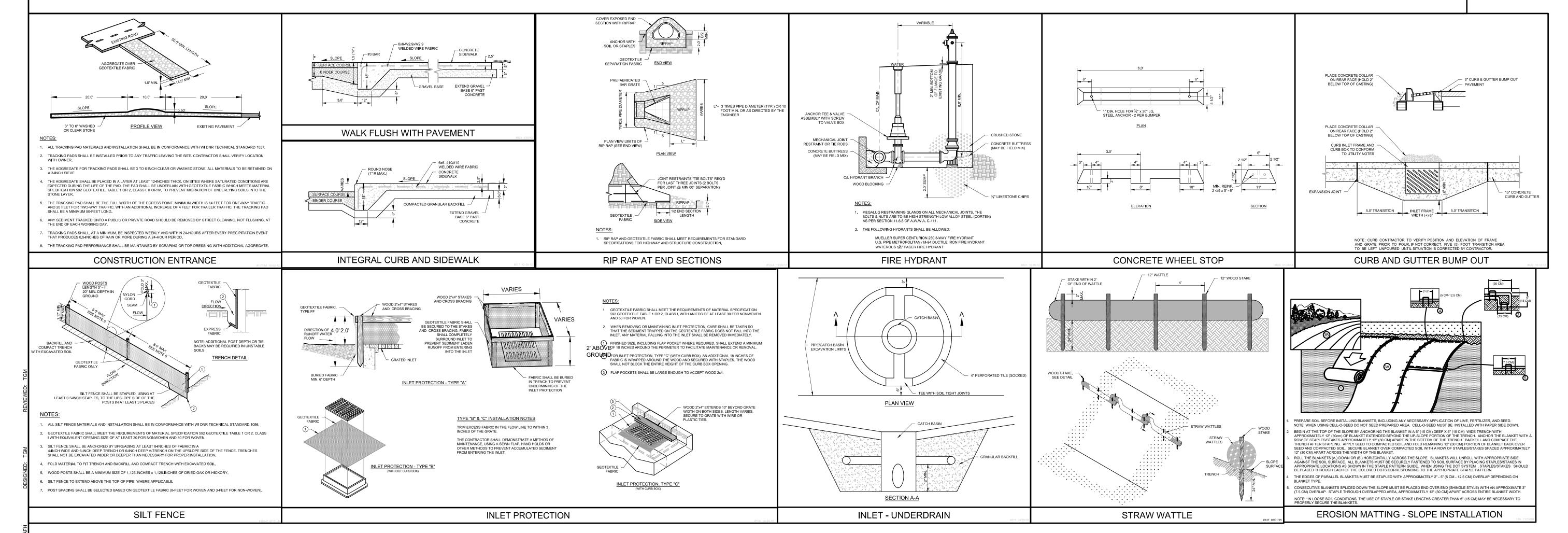
WHEN A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED, THE OWNER OF THE FACILITY MUST SUBMIT A COMPLETED NOTICE OF TERMINATION THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT. CONTRACTOR SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION TO OWNER FOR EXECUTION PRIOR TO THEIR FINAL PAY APPLICATION REQUEST

CONTROL MEASURE GROUP	CONTROL MEASURE	CONTROL MEASURE CHARACTERISTICS							
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.							
	PERMANENT SEEDING	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.							
NON VEGETATIVE SOIL COVER	AGGREGATE COVER	PROVIDES TEMPORARY COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.							
	PAVING	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.							
DIVERSIONS	DIVERSION BERM / SWALE	DIVERTS RUNOFF TO A SEDIMENT TRAP OR OTHER CONTROL.							
ENCLOSED DRAINAGE	STORM SEWER	CONVEYS SEDIMENT LADEN WATER TO A SEDIMENT BASIN.							
OUTLETS	APRON ENDWALL OR RIPRAP	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURE.							
SEDIMENT BASINS	TEMPORARY SEDIMENT TRAP	CONSTRUCTED TO REMOVE SILTATION FROM RUNOFF FROM SITE DIVERSION BERMS/SWALES AND IN OVERLAND FLOOD ROUTE. CAN BE CONVERTED TO PERMANENT SEDIMENT BASIN.							
SEDIMENT FILTERS	SILT FENCE	PLACED DOWN SLOPE OF DISTURBED AREA TO KEEP RUNOFF CONTAINED ON-SITE.							
	INLET PROTECTION	INSTALLED IN OPEN GRATE STRUCTURES TO COLLECT SEDIMENT.							
	DITCH CHECK	PLACED IN DRAINAGE CHANNELS TO FILTER SEDIMENT FROM RUNOFF.							
MUD AND DUST CONTROL	CONSTRUCTION ENTRANCE	REDUCES SOIL EROSION POLLUTANTS BEING TRANSPORTED OFF-SITE.							
	STREET SWEEPING	REDUCES POLLUTANTS TRACKED FROM CONSTRUCTION SITE.							
	DUST CONTROL	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.							

STABILIZATION TYPE		STABILIZATION UTILIZATION PERIODS										
STABILIZATION TIPE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			Ą	*	*	*	*	*	* \			
T ERWANENT SEEDING												
DORMANT SEEDING	В										Ŗ	
BONNANT SEEDING	•										'	
TEMPORARY SEEDING			Ç	*	*	* \	D *	*	<u> </u>			
TEIVII ORAIRT SEEDING							•					
SODDING			Ē	*	*	*	*	*	* \			
SODDING		l	,									

A. KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE. B. KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE.

- C. SPRING OATS 100 LBS/ACRE. D. WHEAT OR CEREAL RYE 150 LBS/ACRE.
- F. STRAW MULCH 2 TONS/ACRE.
- * IRRIGATION/WATERING REQUIRED TO SUPPORT ESTABLISHMENT AS NEEDED.





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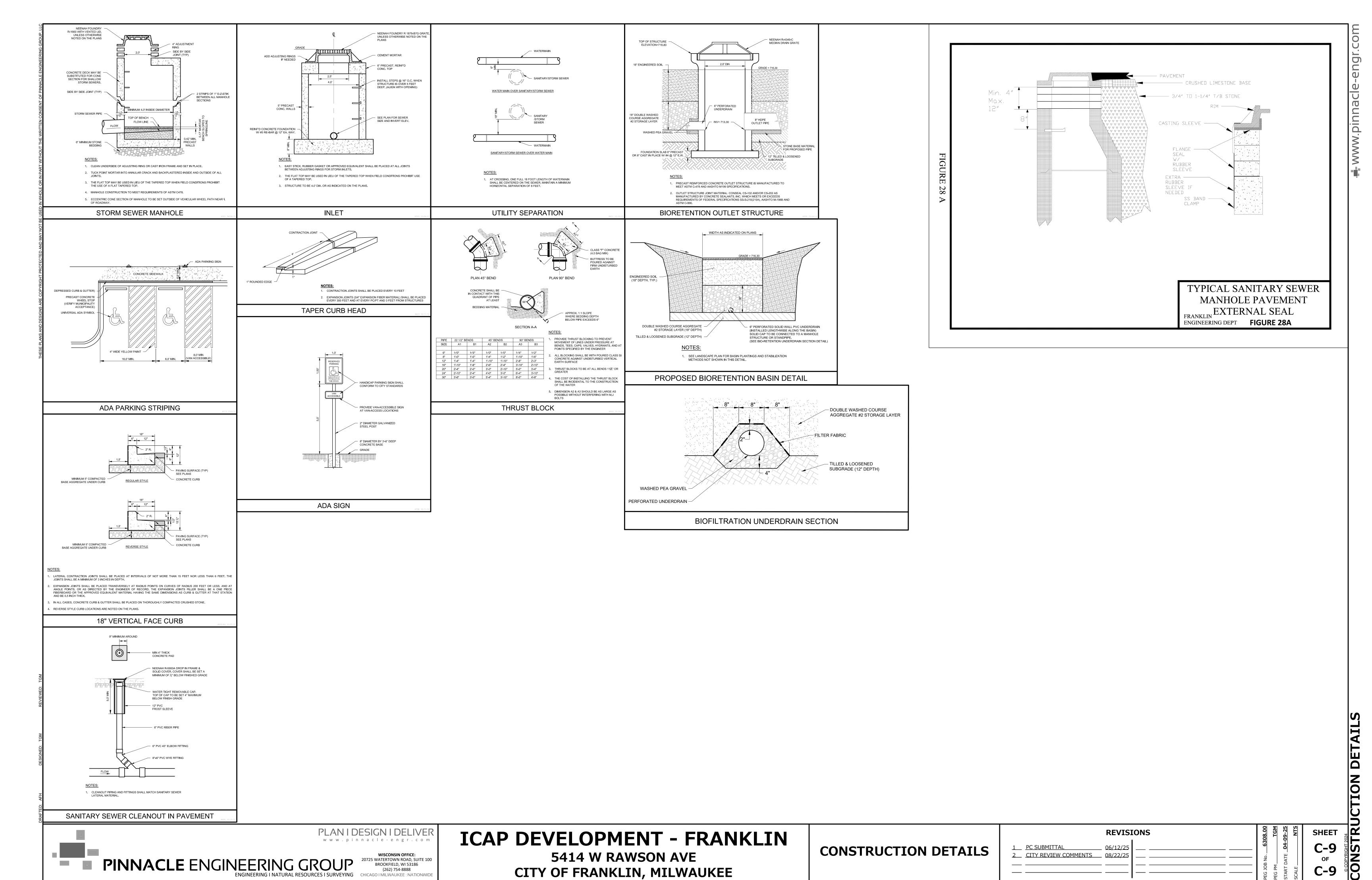
ICAP DEVELOPMENT - FRANKLIN **5414 W RAWSON AVE** CITY OF FRANKLIN, MILWAUKEE

CONSTRUCTION DETAILS

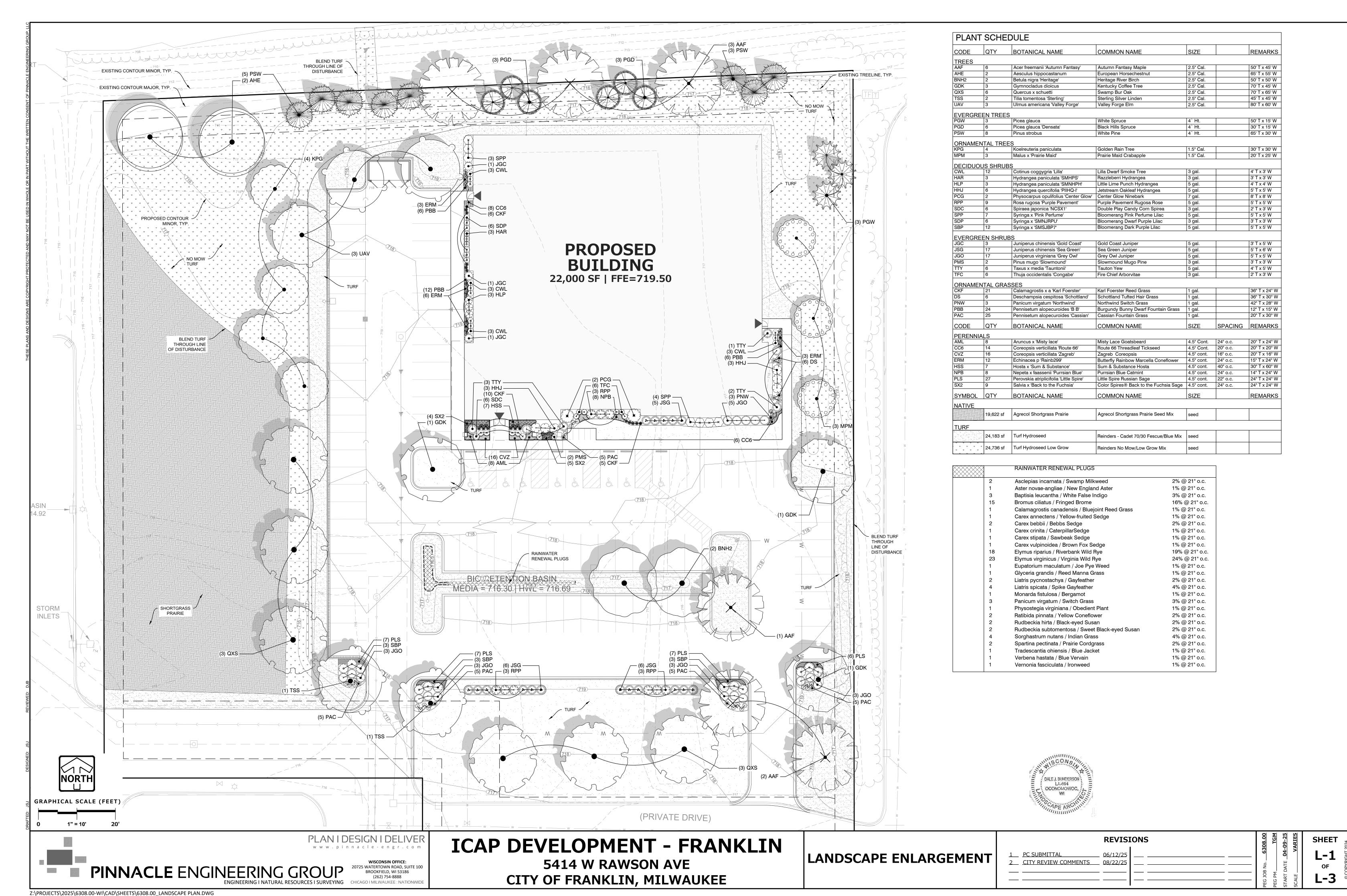
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CAPE ENLARGEMENT

- THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING THE PLANT MATERIAL QUANTITIES REQUIRED BY THE LANDSCAPE PLANS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- 3. NO PLANT MATERIAL OR PLANT SIZE SUBSTITUTIONS WILL BE ACCEPTED WITHOUT APPROVAL BY THE LANDSCAPE ARCHITECT. ANY CHANGES SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO INSTALLATION.
- 4. ALL BNB STOCK SHALL BE NURSERY GROWN IN A CLAY LOAM SOIL FOR A MINIMUM OF THREE GROWING SEASONS WITHIN 200 MILES OF PROJECT LOCATION, IN A ZONE COMPATIBLE WITH USDA HARDINESS ZONE 5A. SEED SHALL BE PROVIDED FROM A NURSERY (WITHIN 200 MILES) WITH A SIMILAR PLANT HARDINESS ZONE AS PROJECT LOCATION. EXISTING SOIL SHALL BE AMENDED PER SOIL ANALYSIS REPORT TO ENSURE A PROPER GROWING MEDIUM IS ACHIEVED.
- ALL PLANT MATERIAL SHALL COMPLY WITH STANDARDS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK - Z60.1 ANSI. LANDSCAPE ARCHITECT OR OWNERS AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND POTENTIALLY REJECT ANY PLANT MATERIAL DEEMED TO NOT MEET THE REQUIRED STANDARDS.
- ALL STOCK SHALL BE FREE OF DISEASES AND HARMFUL INSECTS, DAMAGE, DISORDERS AND DEFORMITIES.
- TREES SHALL HAVE SINGLE, STRAIGHT TRUNKS AND WELL BALANCED BRANCH SYSTEMS MUTLI-STEM TREES SHALL HAVE 3-4 STRAIGHT TRUNKS AND WELL BALANCED BRANCH SYSTEMS. HEIGHT-TO-CALIPER RATIOS SHALL BE CONSISTENT WITH THE LATEST EDITION OF ANSI Z60.1
- 8. ROOT SYSTEMS SHALL BE LARGE ENOUGH TO ALLOW FOR FULL RECOVERY OF THE TREE, AND SHALL CONFORM TO STANDARDS AS THEY APPEAR IN THE MOST CURRENT REVISION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1
- 9. BNB TREES SHALL BE DUG WITH A BALL OF SOIL, NOT SOFT BALLED OR POTTED AND SHALL BE FIRM IN THEIR ROOTBALL. ROOT BALL SHALL BE WRAPPED (WITH BIODEGRADABLE MATERIAL). THE TREE ROOT FLARE, OR COLLAR, SHALL BE AT OR WITHIN THE TOP THREE INCHES OF GRADE.
- 10. ALL SPRING TREES MUST BE FRESHLY DUG IN THE MOST RECENT SPRING.
- 11. ALL AUTUMN TREES MUST BE FRESHLY DUG IN THE MOST RECENT AUTUMN.
- 12. TREES SHALL BE ALIVE, HEALTHY AND APPROPRIATELY MOIST, AT TIME OF DELIVERY. TREES SHALL BE SUBJECT TO INSPECTION FOR CONFORMITY TO SPECIFICATION REQUIREMENTS AND APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE. THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY TREES THAT DO NOT MEET THE SPECIFICATIONS OR THAT HAVE BEEN DAMAGED DURING SHIPMENT. THE LANDSCAPE INSTALLER MUST RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT FOR ANY SUBSTITUTIONS OR ALTERATIONS.
- 13. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH PLANTING DETAILS.
- 14. ALL PLANTING BEDS SHALL HAVE A MINIMUM 10" DEPTH OF PREPARED SOIL. WITH APPROVAL. EXISTING SOIL MAY BE UTILIZED PROVIDED THE PROPER SOIL AMENDMENTS ARE TILLED THOROUGHLY INTO THE TOP 10" OF SOIL. REFER TO SOIL PLACEMENT NOTES.
- 15. WHILE PLANTING TREES AND SHRUBS, BACKFILL 2 OF PLANTING HOLE AND WATER TREE THOROUGHLY BEFORE INSTALLING THE REMAINDER OF SOIL MIXTURE. AFTER ALL SOIL HAS BEEN PLACED INTO THE PLANTING HOLE WATER THOROUGHLY AGAIN.
- 16. THE CONTRACTOR MUST LABEL ALL TREES WITH THE COMMON AND BOTANICAL NAMES PRIOR TO FINAL INSPECTION
- 17. OAK TREES SHALL BE TREATED FOR TWO-LINE CHESTNUT BORER BOTH AT THE TIME OF INSTALLATION AND DURING THE SECOND GROWING SEASON.
- 18. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" DEEP SHREDDED HARDWOOD MULCH, AND ALL TREES PLANTED IN TURF AREAS SHALL RECEIVE A 3" DEEP SHREDDED HARDWOOD MULCHED RING AS SHOWN IN PLANTING DETAILS.
- 19. ALL PLANTING BEDS AND TREE RINGS SHALL HAVE A 4" DEEP TRENCHED BED EDGE CREATED BY EITHER A FLAT LANDSCAPE SPADE OR MECHANICAL EDGER. BED EDGES ARE TO BE CUT CLEAN AND SMOOTH AS SHOWN ON LANDSCAPE PLANS WITH A CLEAN DEFINITION BETWEEN TURF AND PLANTING AREAS.
- 20. ALL TURF SEED AREAS SHALL RECEIVE A MINIMUM OF 6" DEPTH OF TOPSOIL. WITH APPROVAL, EXISTING SOIL MAY BE UTILIZED PROVIDED THE PROPER SOIL AMENDMENTS ARE TILLED THOROUGHLY INTO THE TOP 6" OF SOIL AS INDICATED IN THE SOIL PLACEMENT NOTES. REQUIRED AMENDMENTS SHALL BE DETERMINED BASED ON A SOIL ANALYSIS TO BE PERFORMED. ALL TOPSOIL AMENDMENT SHALL BE AGED WEED FREE MANURE OR CLASS 1 ORGANIC MATTER.
- 21. FOR LAWN SEEDING, APPLY A STARTER FERTILIZER AND SEED UNIFORMLY AT THE RATE RECOMMENDED BY MANUFACTURER, AND PROVIDE A MULCH COVERING THAT IS SUITABLE TO PROMOTE SEED GERMINATION AND TURF ESTABLISHMENT. CONTRACTOR TO PROVIDE FERTILIZER, SEED, AND MULCH SPECIFICATIONS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. EROSION CONTROL MEASURES ARE TO BE INSTALLED IN THOSE AREAS REQUIRING STABILIZATION (SWALES, SLOPES EXCEEDING 1:3, AND THOSE LOCATIONS INDICATED IN CIVIL DRAWINGS).
- 22. THE CONTRACTOR TO ENSURE A SMOOTH, UNIFORM QUALITY TURF IS ACHIEVED WITH NO BARE SPOTS LARGER THAN 6" X 6". ANY BARE SPOTS LARGER THAN 6" X6" AT THE END OF ESTABLISHMENT PERIOD SHALL BE RESEEDED AT THE CONTRACTORS EXPENSE TO OBTAIN A DENSE, UNIFORM LAWN.
- 23. FOLLOWING ESTABLISHMENT, STANDARD TURF TO BE MOWED WEEKLY AS NEEDED THROUGHOUT THE GROWING SEASON. No MOW TURF SHALL BE MOWED ONE TO TWO TIMES THROUGHOUT THE GROWING SEASON AS NEEDED.
- 24. ALL FINISH GRADING AND LAWN AREAS TO BE INSTALLED BY LANDSCAPE CONTRACTOR.
- 25. ALL DISTURBED AREAS WITHIN THE PROJECT SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.

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26. ALL DISTURBED AREAS OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL OR

BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.

- 27. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, INCLUDING ANY IRRIGATION LINES, PRIOR TO DIGGING. CONSULT DIGGERS HOTLINE.
- 28. TREES SHALL BE INSTALLED NO CLOSER THAN:
 - -10 FEET FROM ANY FIRE HYDRANT - 7 FEET FROM STORM SEWER, SANITARY SEWER LATERALS, DRIVEWAYS, AND WATER
- 29. THE CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN ALL AREAS
- 30. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, AND LICENSES NECESSARY FOR THE INSTALLATION OF THIS PLAN.
- 31. THE CONTRACTOR IS TO REVIEW ALL SITE ENGINEERING DOCUMENTS PRIOR TO INSTALLATION. ANY CONFLICTS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT. THESE LANDSCAPE DRAWINGS ARE FOR THE INSTALLATION OF PLANT MATERIALS ONLY UNLESS OTHERWISE STATED.
- 32. THE CONTRACTOR SHALL PROVIDE WATERING AND MAINTENANCE SERVICES FOR A PERIOD OF 60 DAYS TO ENSURE VEGETATIVE ESTABLISHMENT. UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL SUPPLY THE OWNER IN WRITING WITH ONGOING WATERING AND MAINTENANCE INSTRUCTIONS.
- 33. PLANT MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM TIME OF OWNER ACCEPTANCE. ONLY ONE REPLACEMENT PER PLANT WILL BE REQUIRED DURING THE WARRANTY PERIOD EXCEPT IN THE EVENT OF FAILURE TO COMPLY WITH THE SPECIFIED REQUIREMENTS.

THE CONTRACTOR IS RESPONSIBLE TO CONDUCT A FINAL WALK THROUGH WITH THE SOLLAND SCAFE ARCHITECT AND OR OWNERS REPRESENTATIVE TO ANSWER QUESTIONS,

LOOSEN SUBGRADE TO A MINIMUM DEPTH INDICATED IN PLANTING NOTES USING A CULTI-MULCHER OR SIMILAR EQUIPMENT, AND REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSION, STICKS, RUBBISH AND OTHER EXTRANEOUS MATTER. AREAS ADJACENT TO WALKS AND PAVEMENT SHALL BE FREE OF EXCESS STONE AND PAVING MATERIALS SO AS TO PROVIDE AN UNINTERRUPTED CROSS SECTION OF SOIL. INTERNAL PARKING ISLANDS SHALL BE LOOSENED TO A DEPTH OF 30"

PROVIDE INSTRUCTIONS, AND ENSURE THAT PROJECT REQUIREMENTS HAVE BEEN MET.

- 2. THOROUGHLY BLEND PLANTING SOIL MIX FOR PLANTING BED AREAS. (1 PART EXISTING SOIL, 1 PART TOPSOIL, 1 PART ORGANIC SOIL AMENDMENT, 2.9 POUNDS PER CUBIC YARD OF 4-4-4 ANALYSIS SLOW-RELEASE FERTILIZER)
- TREE AND SHRUB HOLES SHALL BE FILLED WITH A PREPARED PLANTING MIXTURE OF 1 PART TOPSOIL, 2 PARTS PLANTING SOIL MIX.
- 4. SPREAD SOIL AND SOIL AMENDMENTS TO DEPTH INDICATED ON DRAWINGS, BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. (FINISH GRADE OF PLANTING BEDS SHALL BE 3" BELOW ALL ADJACENT SURFACES. FINISH GRADE OF TURF SEEDING AREAS SHALL BE 1" BELOW ALL ADJACENT HARD SURFACES, WALKS, AND CURBS.)
- 5. PLACE APPROXIMATELY 1/2 OF TOTAL AMOUNT OF SOIL REQUIRED. WORK INTO TOP OF LOOSENED SUBGRADE TO CREATE A TRANSITION LAYER, THEN PLACE REMAINDER OF THE SOIL. SOIL TRANSITION LAYER SHALL BE TILLED TO A MINIMUM DEPTH OF 6" BELOW THE DEPTH OF NEWLY PLACED SOIL. PARKING LOT ISLANDS SHALL BE CROWNED TO A HEIGHT OF 6" TO PROVIDE PROPER DRAINAGE UNLESS OTHERWISE NOTED.
- 6. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY
- 7. FINISH GRADING: GRADE SOIL TO A SMOOTH, UNIFORM SURFACE PLANE WITH A LOOSE, UNIFORMLY FINE TEXTURE.
- 8. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.
- 9. RESTORE PLANTING BEDS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING AND BEFORE PLANTING.

NATIVE SEEDING & PLUG PLANTINGS

ESTABLISHMENT OF A VIABLE VEGETATION COMMUNITY WILL BE COMPLETED BY HAND-BROADCASTING OF PRE-DESIGNED SEED MIXES AND PLANTING OF PERENNIALS TO CREATE A DYNAMIC PLANTING.

PRIOR TO SEEDING/PLUG PLANTING:

- A. ALL WEEDS AND EXISTING VEGETATION SHALL BE REMOVED. EXISTING VEGETATION SHALL BE TREATED WITH GLYPHOSATE OR SIMILAR HERBICIDE BY A LICENSED PROFESSIONAL. TREATMENT SHALL OCCUR A MINIMUM OF 10 DAYS PRIOR TO SEEDING/PLANTING. VEGETATION STILL ALIVE AFTER INITIAL HERBICIDE TREATMENT SHALL BE TREATED A SECOND TIME PRIOR TO TILLING INTO THE SOIL.TREATED VEGETATION SHALL BE TILLED INTO THE SOIL NO EARLIER THAN 1 DAY PRIOR TO
- B. PREPARATION OF SOIL PRIOR TO SEEDING
 - REFER TO CIVIL PLANS FOR SOIL MIXTURE. 2. ALL FOREIGN MATERIALS LARGER THAN 1-INCH SHALL BE REMOVED FROM THE SOIL PRIOR TO SEEDING OR PLANTING.
 - 3. AREA SHOULD BE FREE FROM UNSIGHTLY VARIATIONS, RIDGES, AND DEPRESSIONS
 - 4. AVOID DRIVING OVER THE SPECIFIED AREA WITH MACHINERY

SPECIFICATIONS FOR HAND BROADCASTING

SEEDING SHALL BE CONDUCTED IN LATE FALL (SEPTEMBER 1- SOIL FREEZE) SO THAT SEEDS MAY LIE DORMANT DURING THE WINTER, ALLOWING FOR STRATIFICATION, OR SPRING (MARCH 1-JUNE 1) TO ALLOW A COMPLETE GROWING SEASON TO BECOME ESTABLISHED.

- 1. ANNUAL RYE SHALL BE SPREAD AT A DENSITY OF 20 POUNDS PER ACRE DURING THE PLANTING OR SEEDING OF THE NATIVE PLANT SPECIES TO STABILIZE THE SOIL AND REDUCE THE GROWTH OF UNWANTED VEGETATION. THIS ANNUAL GRASS GROWS RAPIDLY WITHOUT COMPETING WITH THE WILDFLOWERS AND GRASSES THAT ARE PLANTED IN THE TARGET AREAS
- 2. WINTER WHEAT OR PERENNIAL RYE SHALL NOT BE USED AS A COVER CROP. THESE GRASSES MAY OUT COMPETE PRAIRIE SEEDLINGS, LEADING TO A REDUCTION IN THE SUCCESS OF THE PLANTINGS.

- 1. MIX ALL NATIVE SEED WITH VERMICULITE ACCORDING TO AGRECOL RECOMMENDATIONS AND INSTALLATION GUIDELINES.
- 2. BROADCAST HALF THE SEED OVER THE ENTIRE SITE OR TARGET AREA.
- 3. BROADCAST THE OTHER HALF OF SEED PERPENDICULAR TO THE DIRECTION THAT THE FIRST HALF OF THE SEED WAS BROADCAST.
- 4. COVER SEED WITH $\frac{1}{4}$ -INCH TO $\frac{1}{2}$ -INCH OF SOIL (USE ANY EXCESS SOIL FROM THE SITE) WITH RAKE OR DRAG.
- 5. ROLL SITE TO ENSURE FIRM SEED-TO-GROUND CONTACT.
- 6. KEEP SEED CONSTANTLY WET THROUGH GERMINATION PERIOD. GENERALLY 3 WEEKS.

ALL SEEDING SHALL BE COVERED WITH 1-INCH OF CLEAN, NON-INVASIVE STRAW (NO MARSH HAY, OR REED CANARY GRASS) WITHOUT SEEDS, WITHIN SEVEN DAYS. WHEAT, RYE, OATS, OR BARLEY ARE ACCEPTABLE FORMS OF STRAW. THOSE AREAS OF SLOPES STEEPER THAN 8:1 (EIGHT FEET HORIZONTAL TO ONE FOOT VERTICAL) SHALL BE PLANTED NO LATER THAN OCTOBER 1 AND STAKED WITH AN EROSION CONTROL BLANKET TO PREVENT EROSION

NATIVE PLUGS INSTALLATION

INSTALLATION OF PLUGS SHOULD OCCUR ON A CLOUDY, COOL DAY IN EITHER THE MORNING OR AFTERNOON. PLANTING SHOULD ALSO OCCUR AS EARLY IN THE SEASON AS POSSIBLE ONCE THE RISK

IF INSTALLING PLUGS IN COMBINATION WITH SEEDING, INSTALL PLUGS AFTER SEED HAS BEEN PLACED. INSTALL PLUGS PRIOR TO PLACEMENT OF STRAW MULCH EXCEPT WHERE AN EROSION CONTROL BLANKET WILL BE UTILIZED. ENSURE THAT NEWLY PLANTED PLUGS HAVE ADEQUATE STRAW MULCH COVERAGE FOLLOWING INSTALLATION.

- A. DIG A HOLE IN YOUR FRESHLY WORKED SOIL ABOUT TWICE THE DIAMETER AND THE SAME HEIGHT OF THE ROOT BALL OF THE PLANT. PUT THE SOIL ASIDE TO FILL THE HOLE BACK IN LATER. GENTLY REMOVE THE PLANT FROM ITS CONTAINER, AND BRUSH YOUR HAND OVER THE ROOT BALL TO STIMULATE THE ROOTS.
- B. PLACE THE PLANT IN THE HOLE. PLACE THE ROOTS AT THE PROPER LEVEL SO THAT THE PLANTS ROOTS AREN'T EXPOSED AND THE FOLIAGE OF LOW-LYING PLANTS DOESN'T GET TOO WET. FILL THE HOLE ABOUT HALF-WAY WITH THE ORIGINAL SOIL. GENTLY PACK THE SOIL TO REMOVE ANY TRAPPED AIR. WATER PLANT THOROUGHLY C. FINISH FILLING IN WITH SOIL AROUND THE PLANT, GENTLY PACK, AND WATER THOROUGHLY
- D. COVER THE BASE OF THE PLANT WITH 1" OF STRAW MULCH.
- E. AFTER PLANTING, KEEP YOUR PLANTS WELL WATERED FOR THE FIRST YEAR UNTIL THEY ESTABLISH A GOOD ROOT SYSTEM.

NATIVE PLANTINGS:

WEED SUPPRESSION MEASURES:

1st YEAR - PERFORM SPOT SPRAY WITH HERBICIDE TO SUPPRESS WEEDS. THIS SHOULD OCCUR APPROXIMATELY EVERY MONTH OF THE GROWING SEASON AFTER NATIVE PLANTINGS HAVE BEEN ROUGH GRADED.

2nd YEAR - IN MAY/JUNE MOW NATIVE PLANTINGS AT 6" HEIGHT TO SUPPRESS THE WEEDS. PERFORM SPOT SPRAY WITH HERBICIDE TO SUPPRESS WEEDS. HAVE PROFESSIONAL ASSESS PLANTINGS. REPEAT MOWING NATIVE PLANTINGS AND SPOT-SPRAY IN EARLY JULY.

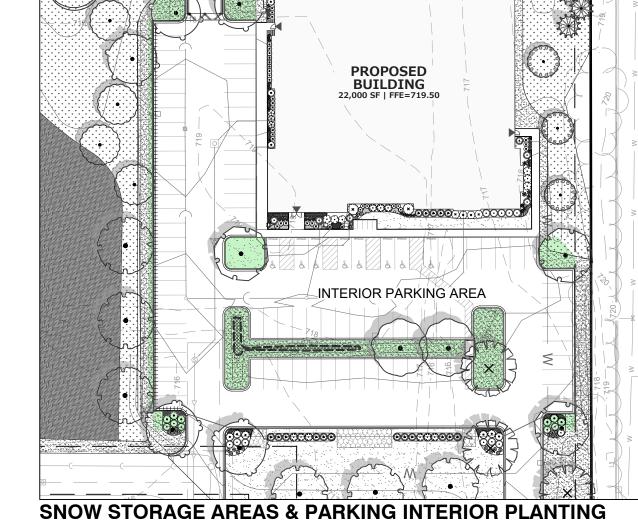
3rd YEAR - IN MAY/JUNE MOW NATIVE PLANTINGS AT 8" HEIGHT TO SUPPRESS THE WEEDS. PERFORM SPOT SPRAY WITH HERBICIDE TO SUPPRESS WEEDS.

4th YEAR - IN MAY PERFORM A PRESCRIBED BURN. IN JUNE HAVE A QUALIFIED PROFESSIONAL ASSESS PLANTINGS. IF A PRESCRIBED BURN CAN NOT BE UTILIZED, NATIVE PLANTINGS SHALL BE CUT TO THE GROUND AND ALL CUT MATERIAL SHALL BE REMOVED AND DISPOSED OF OFF SITE.

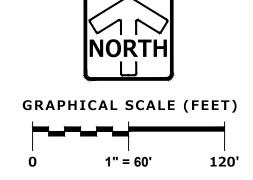
LANDSCAPE IMPROVEMENT TABLE REQUIRED **PROVIDED** • SHRUBS • PERENNIALS PARKING 100 SPACES + 20% PER BUFFER CODE • EVERGREEN OR ORNAMENTAL TREES 1/5 SPACES • EVERGREEN OR LG. DEC. SHRUBS 1/5 SPACES • SMALL SHRUBS OR NATIVE GRASS 1/5 SPACES PARKING SCREENING 160 F SHRUBS 1/15 FT INTERIOR PARKING PLANTING AREA INTERIOR PARKING AREA W/DRIVE ISLES= 38,427 SF 10% INTERIOR PARKING AREA WITH ADDITIONAL 15% OF THE INITIAL 10% 5,485 sf (14%)

IRRIGATION SYSTEM IS REQUIRED BY THE CITY

REFERENCE NOTES SCHEDULE **SNOW STORAGE AREAS** 5,606 sf PARKING INTERIOR PLANTING AREA 3,232 sf **PROPOSED**



SCALE: 1"=60'



PLAN I DESIGN I DELIVER www.pinnacle-engr.com 20725 WATERTOWN ROAD, SUITE 100 **PINNACLE** ENGINEERING GROUP

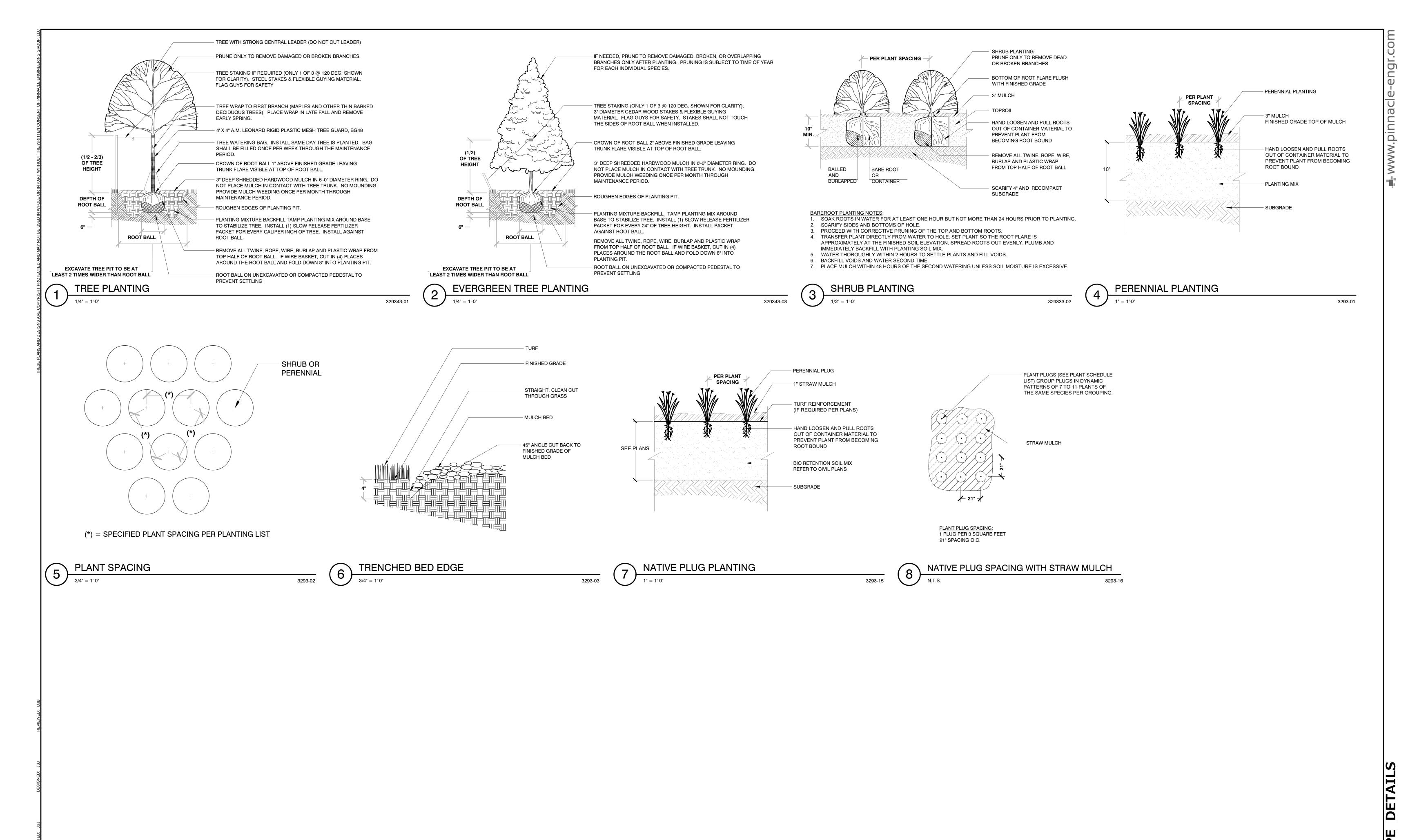
ICAP DEVELOPMENT - FRANKLIN **5414 W RAWSON AVE** CITY OF FRANKLIN, MILWAUKEE

LANDSCAPE GENERAL **NOTES**

06/12/25 CITY REVIEW COMMENTS 08/22/2

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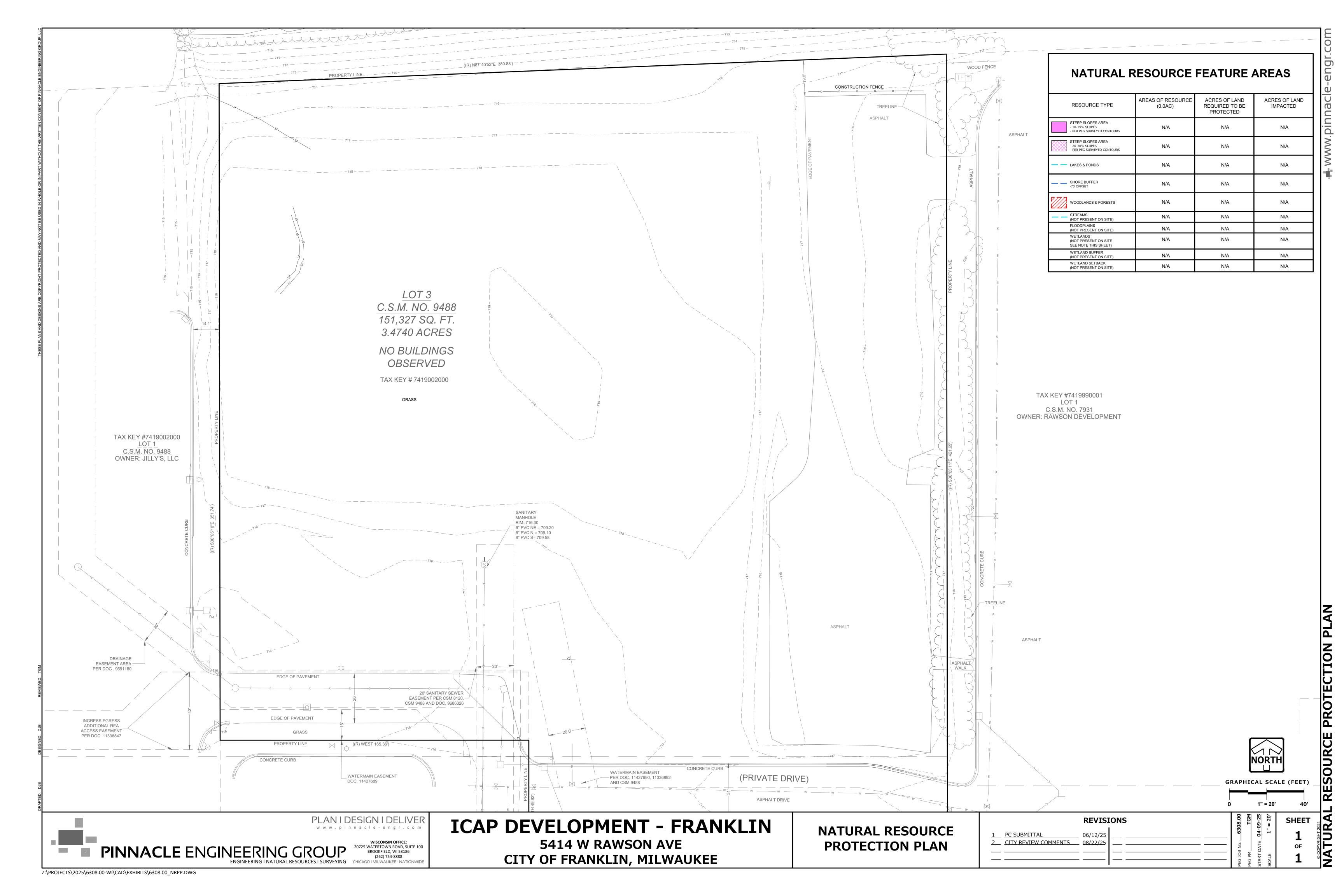
WWW.pinnacle-engr.com

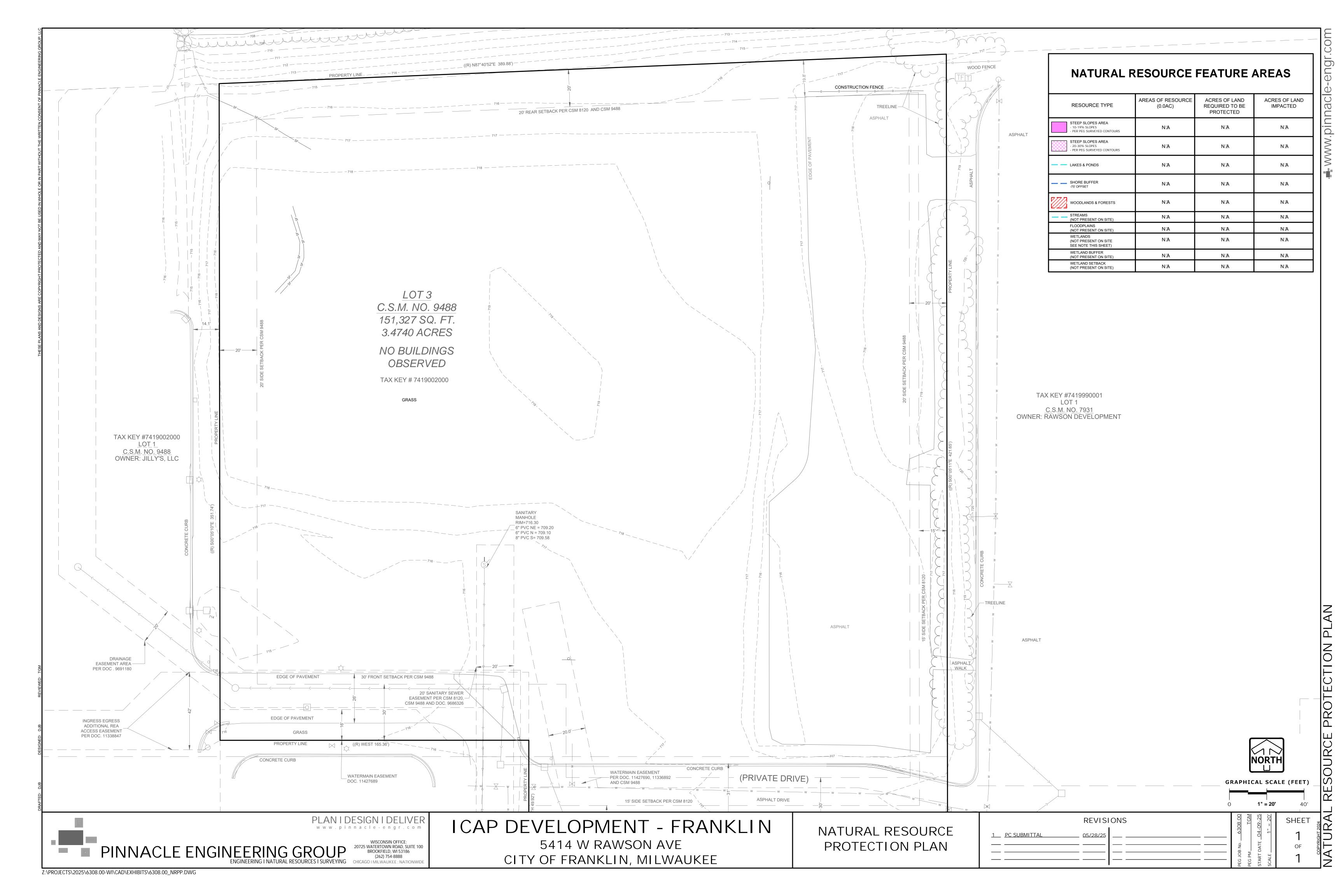
Wisconsin Office:
20725 WATERTOWN ROAD, SUITE 100

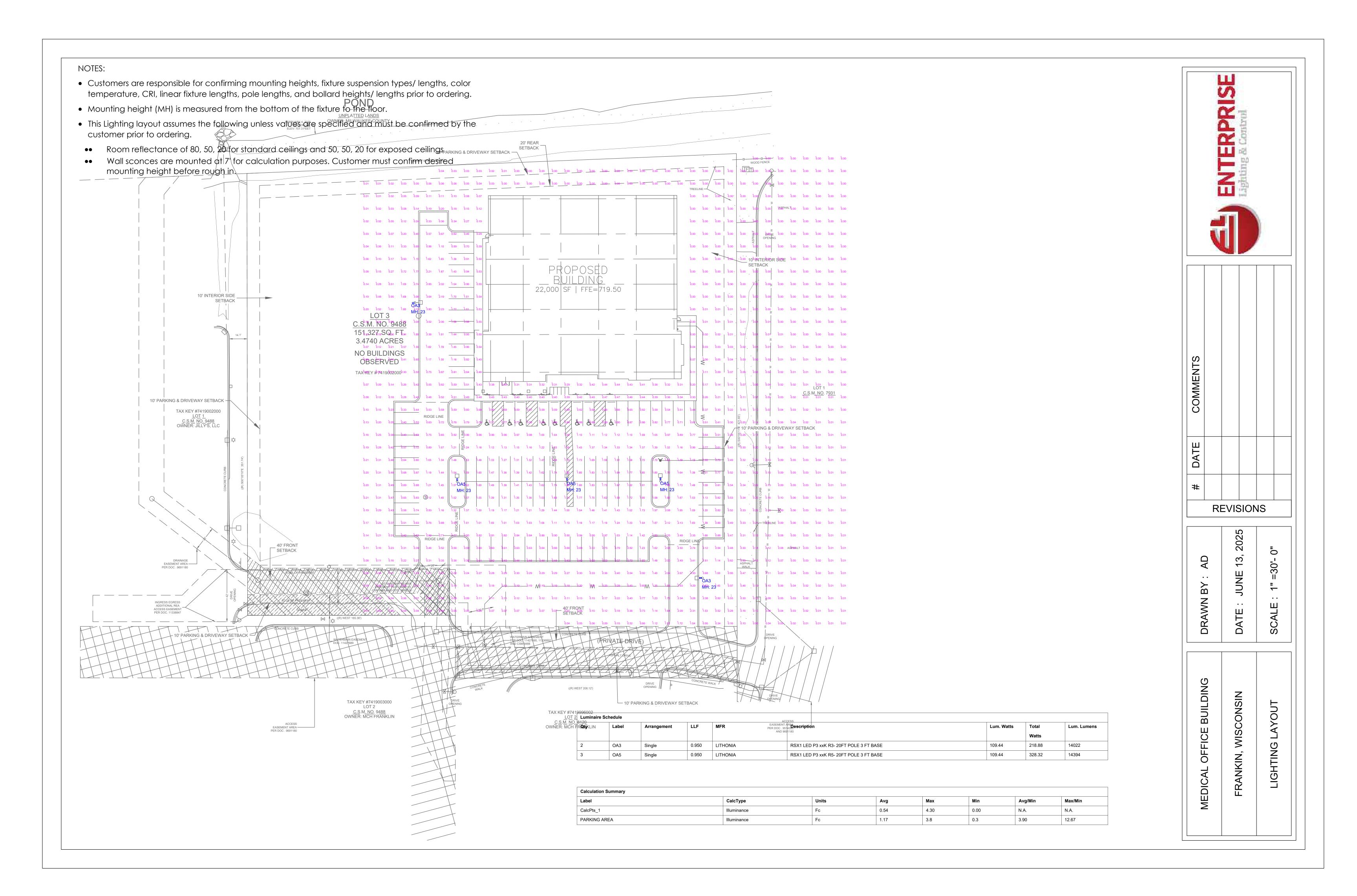
BROOKFIELD, WI 53186
(262) 754-8888

ICAP DEVELOPMENT - FRANKLIN
5414 W RAWSON AVE
CITY OF FRANKLIN, MILWAUKEE

LANDSCAPE DETAILS







TAG

BURNISHED BLOCK

SPLITFACE BLOCK

WOOD GRAIN - FIBER CEMENT PANEL

SOLID COLOR METAL PANEL

MASONRY SILL

KEYED EXTERIOR ELEVATIONS - CITY SUBMITTAL

DESCRIPTION

THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM

PREFINISHED ALUMINUM COPING PROPOSED BUILDING SIGNAGE LOCATION

PREFINISHED ALUMINUM SUNSHADE

PREFINISHED ALUMINUM EQUIPMENT SCREEN

TRASH ENCLOSURE GATE

GLAZING KEY

IG-1 & IG-1T INSULATED CLEAR VISION GLAZING

IG-2 & IG-2T INSULATED SPANDREL GLAZING

PROVIDED MASONRY MATERIAL: 168SF = 7% OF SOUTH ELEVATION T.O. GYM PARAPET 126' - 0" T.O. HIGH PARAPET T.O. MID PARAPET _ Children's Wisconsin c IG-1T T.O. LOW PARAPET 117' - 0" IG-1 IG-1(IG-2T LEVEL 1 100' - 0"

SOUTH ELEVATION

SCALE: 1/8" = 1'-0"

INTERIOR SIDE ELEVATION MATERIAL REQUIREMENTS

EAST ELEVATION TOTAL SF: 2,931SF MASONRY: MINIMUM 25% OF FACADE

FRONT ELEVATION MATERIAL REQUIREMENTS

SOUTH ELEVATION TOTAL SF LESS GLAZING AREA: 2,598SF

2,598SF x 50% = 1,299SF MINIMUM OF MASONRY MATERIAL

SOUTH ELEVATION TOTAL SF LESS GLAZING AREA: 2,598SF 2,598SF x 50% = 1,299SF MAXIMUM OF LAP SIDING MATERIAL

ARCHITECTURAL METAL SIDING: MAXIMUM 15% OF FACADE

SOUTH ELEVATION TOTAL SF LESS GLAZING AREA: 2,598SF

2,598SF x 15% = 390SF MAXIMUM OF METAL SIDING MATERIAL

PROVIDED MASONRY MATERIAL: 2,105SF = 81% OF SOUTH ELEVATION

PROVIDED LAP SIDING MATERIAL: 661SF = 26% OF SOUTH ELEVATION

SOUTH ELEVATION TOTAL SF: 3,734SF

MASONRY: MINIMUM 50% OF FACADE

LAP SIDING: MAXIMUM 50% OF FACADE

EAST ELEVATION TOTAL SF LESS GLAZING AREA: 2,901SF 2,901SF x 25% = 726SF MINIMUM OF MASONRY MATERIAL PROVIDED MASONRY MATERIAL: 2,691SF = 93% OF EAST ELEVATION

LAP SIDING: MAXIMUM 75% OF FACADE

EAST ELEVATION TOTAL SF LESS GLAZING AREA: 2,901SF 2,901SF x 75% = 2,176SF MAXIMUM OF LAP SIDING MATERIAL PROVIDED LAP SIDING MATERIAL: 27SF = 1% OF EAST ELEVATION

ARCHITECTURAL METAL SIDING: MAXIMUM 25% OF FACADE EAST ELEVATION TOTAL SF LESS GLAZING AREA: 2,901SF 2,901SF x 25% = 726SF MAXIMUM OF METAL SIDING MATERIAL PROVIDED MASONRY MATERIAL: 183SF = 6% OF EAST ELEVATION INTERIOR SIDE ELEVATION GLAZING REQUIREMENTS

FRONT ELEVATION GLAZING REQUIREMENTS

 $3,734SF \times 30\% = 1,120SF OF GLAZED AREA$

SOUTH ELEVATION GLAZED AREA: 1,136SF

SOUTH ELEVATION TOTAL SQUARE FOOTAGE: 3,734SF

MINIMUM REQUIRED GLAZED AREA: 30%

PROVIDED GLAZED AREA: 31%

MINIMUM REQUIRED GLAZED AREA: NO REQUIREMENT

EAST ELEVATION GLAZED AREA: 30SF

T.O. <u>GYM PARAPET</u> 126' - 0" T.O. HIGH PARAPET T.O. MID PARAPET

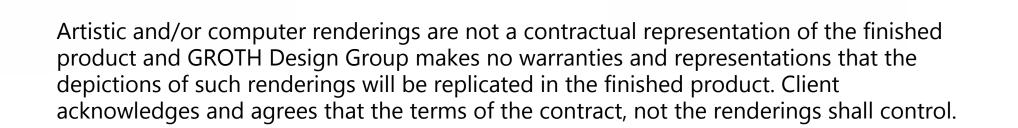
T.O. LOW PARAPET 117' - 0"

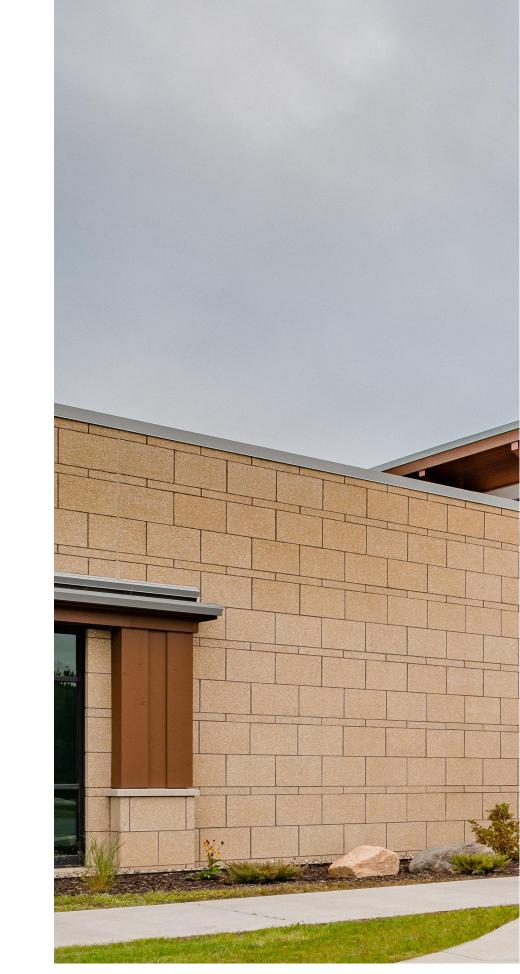
LEVEL 1 100' - 0"

EAST ELEVATION SCALE: 1/8" = 1'-0"









BURNISHED BLOCK PATTERN **PRECEDENT**



TAG# DESCRIPTION

BURNISHED BLOCK

SPLITFACE BLOCK

WOOD GRAIN - FIBER CEMENT PANEL

SOLID COLOR METAL PANEL MASONRY SILL

THERMALLY BROKEN ALUMINUM STOREFRONT SYSTEM

KEYED EXTERIOR ELEVATIONS - CITY SUBMITTAL

PREFINISHED ALUMINUM COPING PROPOSED BUILDING SIGNAGE LOCATION

TRASH ENCLOSURE GATE

B —

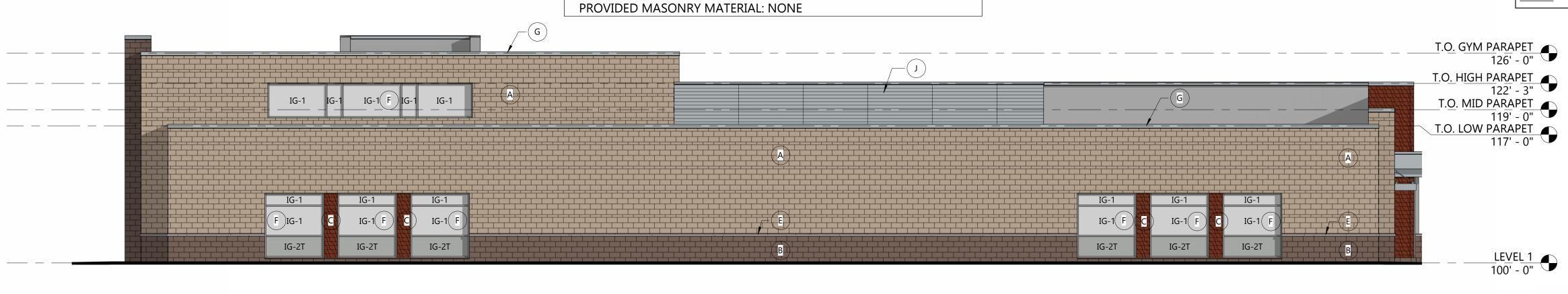
(K)—

PREFINISHED ALUMINUM SUNSHADE PREFINISHED ALUMINUM EQUIPMENT SCREEN

GLAZING KEY

IG-1 & IG-1T INSULATED CLEAR VISION GLAZING

IG-2 & IG-2T INSULATED SPANDREL GLAZING



NORTH ELEVATION

SCALE: 1/8" = 1'-0"

INTERIOR SIDE ELEVATION MATERIAL REQUIREMENTS

WEST ELEVATION TOTAL SF: 2,966SF MASONRY: MINIMUM 25% OF FACADE

REAR ELEVATION MATERIAL REQUIREMENTS

SOUTH ELEVATION TOTAL SF LESS GLAZING AREA: 3,018SF

NORTH ELEVATION TOTAL SF LESS GLAZING AREA: 3,018SF

ARCHITECTURAL METAL SIDING: MAXIMUM 25% OF FACADE SOUTH ELEVATION TOTAL SF LESS GLAZING AREA: 3,018SF

3,018SF x 25% = 755SF MAXIMUM OF METAL SIDING MATERIAL

PROVIDED MASONRY MATERIAL: 2,906SF = 96% OF NORTH ELEVATION

PROVIDED LAP SIDING MATERIAL: 112SF = 4% OF NORTH ELEVATION

NORTH ELEVATION TOTAL SF: 3,365SF

MASONRY: ANY % ALLOWED

LAP SIDING: ANY % ALLOWED

WEST ELEVATION TOTAL SF LESS GLAZING AREA: 2,500SF 2,500SF x 25% = 625SF MINIMUM OF MASONRY MATERIAL PROVIDED MASONRY MATERIAL: 1,765SF = 70% OF WEST ELEVATION

LAP SIDING: MAXIMUM 75% OF FACADE

WEST ELEVATION TOTAL SF LESS GLAZING AREA: 2,500SF 2,500SF x 75% = 1,875SF MAXIMUM OF LAP SIDING MATERIAL PROVIDED LAP SIDING MATERIAL: 582SF = 24% OF WEST ELEVATION

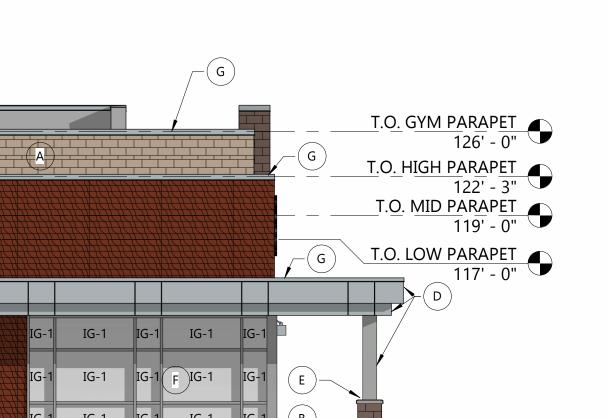
ARCHITECTURAL METAL SIDING: MAXIMUM 25% OF FACADE WEST ELEVATION TOTAL SF LESS GLAZING AREA: 2,500SF 2,500SF x 25% = 625SF MAXIMUM OF METAL SIDING MATERIAL PROVIDED MASONRY MATERIAL: 153SF = 6% OF WEST ELEVATION INTERIOR SIDE ELEVATION GLAZING REQUIREMENTS

REAR ELEVATION GLAZING REQUIREMENTS

NORTH ELEVATION GLAZED AREA: 347SF

MINIMUM REQUIRED GLAZED AREA: NO REQUIREMENT

MINIMUM REQUIRED GLAZED AREA: NO REQUIREMENT WEST ELEVATION GLAZED AREA: 466SF



LEVEL 1 100' - 0"

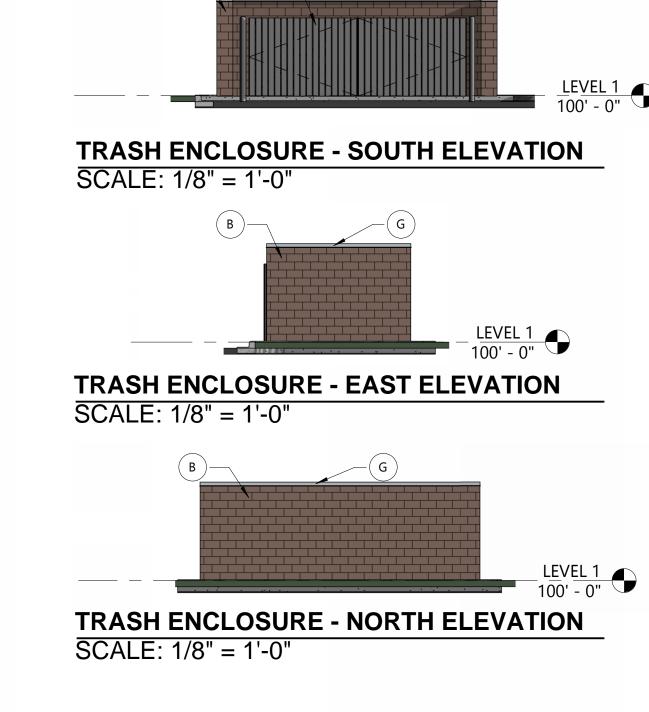
WEST ELEVATION SCALE: 1/8" = 1'-0"





Artistic and/or computer renderings are not a contractual representation of the finished product and GROTH Design Group makes no warranties and representations that the depictions of such renderings will be replicated in the finished product. Client acknowledges and agrees that the terms of the contract, not the renderings shall control.

SCALE: 1/8" = 1'-0"

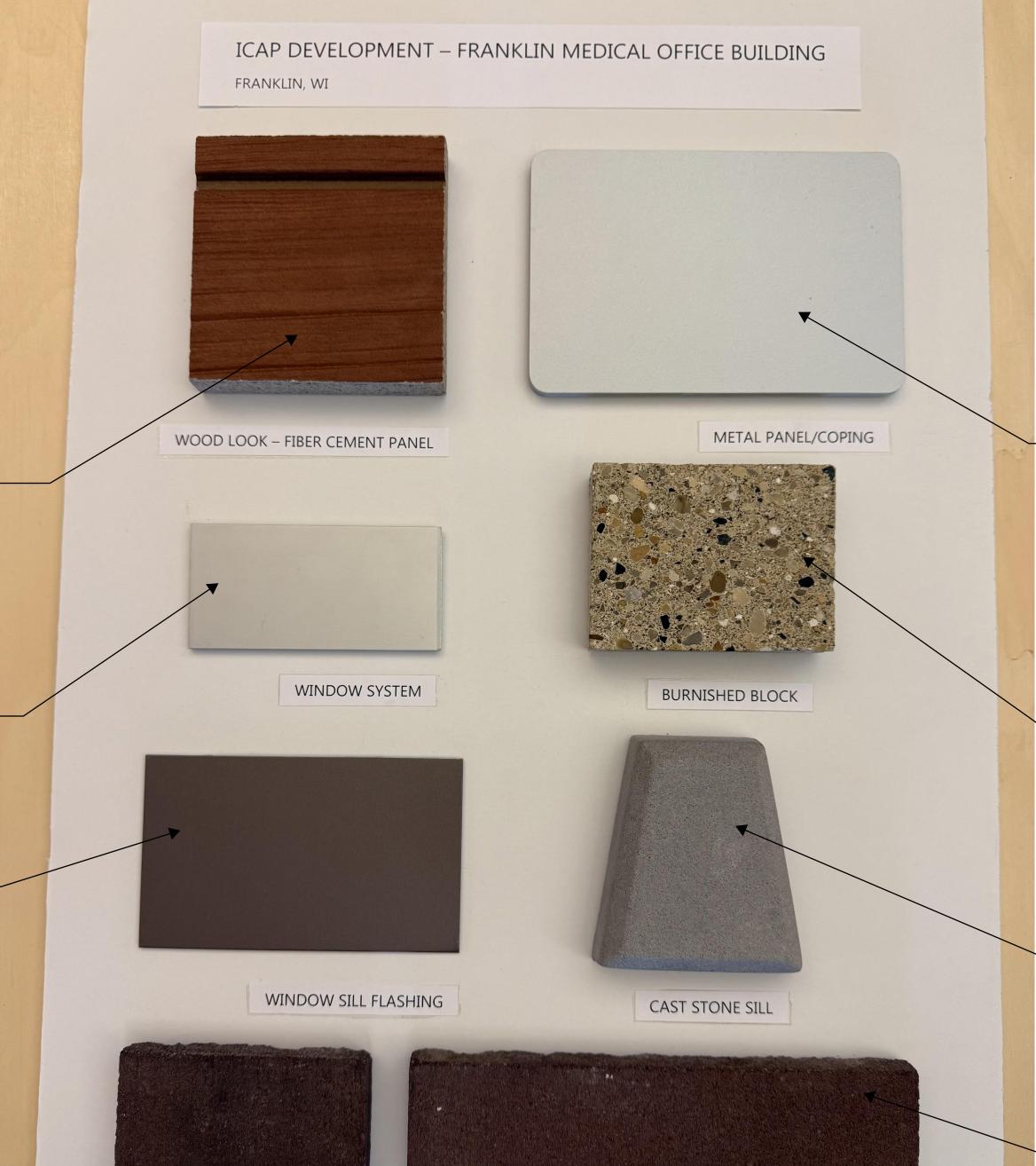


TRASH ENCLOSURE - WEST ELEVATION



Group





METAL PANEL/COPING/SUNSHADE REYNOBOND | COLORWELD 500 COLOR: SILVERSMITH

BURNISHED BLOCK COUNTY MATERIALS | PREMIER ULTRA COLOR: DAWN

CAST STONE SILL ROCKRIDGE COLOR: 2410

SPLITFACE BLOCK COUNTY MATERIALS | HERITAGE COLLECTION COLOR: COFFEE BLEND

> PROPOSED MATERIALS AGAINST ADJACENT SENDIK'S BUILDING





WOOD LOOK PANEL

COLOR: REDWOOD

WINDOW SYSTEM

COLOR: CLEAR

CENTRIA

KAWNEER | PERMADIZE

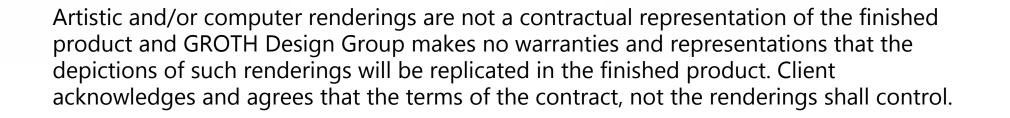
WINDOW SILL FLASHING

COLOR: BRONZE II

NICHIHA | VINTAGE WOOD



SPLITFACE BLOCK









PERSPECTIVE LOOKING NORTHWEST















