

**City of Lino Lakes  
Environmental Board Meeting**

**Wednesday, September 25, 2019  
6:30 PM**

**AGENDA**

1. Call to Order
2. Pledge of Allegiance
3. Approval of Agenda
4. Approval of Minutes – August 28, 2019
5. Open Mike
6. Shared Information From Board, John Sullivan
7. Action Items
  - A. Stern Addition-Preliminary Plat (6820 West Shadow Lake Dr), Marty Asleson
8. Discussion Items
  - A. Resource Inventory Revisited, Marty Asleson
  - B. Recycling Updates, Connor Kvendru
  - C. City Newsletter Information (Due Date: October 11)
  - D. Board Members Interests/Goals
7. Adjourn

**CITY OF LINO LAKES  
ENVIRONMENTAL BOARD MEETING**

<b>DATE</b>	<b>: August 28, 2019</b>
<b>TIME STARTED</b>	<b>: 06:30 P.M.</b>
<b>TIME ENDED</b>	<b>: 08:00 P.M.</b>
<b>MEMBERS PRESENT</b>	<b>: John Sullivan, Paula Andrzejewski, Eric Flowers, Shawn Holmes, Liz Kaufenberg, Wendy Nelson</b>
<b>MEMBERS ABSENT</b>	<b>: Alex Schwartz</b>
<b>STAFF PRESENT</b>	<b>: Marty Asleson, Connor Kvendru</b>

Wollan's Park pre-meeting

**I. CALL TO ORDER AND ROLL CALL:**

Mr. Sullivan called the Lino Lakes Environmental Board meeting to order at 6:30 p.m. on August 28, 2019.

**II. PLEDGE OF ALLEGIANCE**

**III. APPROVAL OF AGENDA**

The Agenda discussed with the following changes:

Omit: Action Item

B. Rehbein Stock Pile

Add: Discussion Item

F. Blue Heron Parade

Change: Discussion Item

E. Environmental Updates from Board members - Mr. Sullivan would like this as a permanent item

Ms. Andrzejewski made a MOTION to approve the agenda with the changes stated. Motion was supported by Ms. Kaufenberg. Motion carried 6 - 0.

**IV. SWEARING IN OF WENDY NELSON**

**V. APPROVAL OF MINUTES:**

July 31, 2019

Ms. Kaufenberg made a MOTION to approve the July 31, 2019 meeting minutes. Motion was supported by Ms. Holmes. Motion carried 6 - 0.

**VI. OPEN MIKE**

Mr. Sullivan declared Open Mike at 6:37 p.m.

Mr. Sullivan closed Open Mike at 6:38 p.m.

**VII. ACTION ITEMS –**

**A. Direct Bore (502 and 510 Lilac Street) – Conditional Use Permit**

This is a request for a Conditional Use Permit for a small family owned underground directional drilling company.

The application has no significant environmental changes before and after the project.

The vast majority of this application involves zoning issues. Because of that, there is no recommendation at this time.

**VIII. DISCUSSION ITEMS**

**A. Resource Inventory –**

Mr. Asleson presented a report on what is included the Resource Inventory that we should be using to help the Environmental Board make recommendation for the action items that come before the board.

In the Resource Management Plan is the Wetlands Preserves Corridor, unique wetlands, rare plant communities, Blanding turtle area, Blue Heron nest count, drinking water service management area, tree inventory that includes diseases like oak wilt and emerald ash borer.

Ms. Holmes brought up that when there is a city project introduced to the Environmental Board, she likes that Mr. Asleson has headings in the report that highlights these items.

The Resource Management Plan is available on-line

**B. Interests/Goals**

Mr. Sullivan would like to send out an email about his interest and goals. And would like the other board members to do the same.

C. **Recycling Updates**

Mr. Kvendru reported that from Blue Heron Days 16 pounds of organics and 41 pounds of recycling was collected.

The volunteers did not find much organics in the garbage. One thought that organics was down was because people were eating most of their food.

Our 2019 goal of recycling and organics from Anoka County is 2,240 tons and for the months of January – June the total was 1,043 tons.

Recycling Saturday should see an increase as it has in the past. With residents cleaning up before winter.

There are more issues at organics compost sites. Mr. Kvendru will add signs stating “No Plastic” signs.

Ms. Nelson mentioned that people are using the containers for garbage not for organics. Maybe move the garbage can next to organics.

Ms. Kaufenberg suggested a sign that catches people attention into being aware of what is organics.

Ms. Kaufenberg would like to see how to get businesses to volunteer in recycling and then we could acknowledge that business.

D. **City Newsletter, October 15** (Articles Due Date)

Mr. Asleson stated there is always an article of Stormwater information in every newsletter.

Mr. Sullivan suggested an article of 10 things to help compost, organics, etc.

Ms. Kaufenberg would like to more information out to the public about organics, recycling etc.

Ms. Nelson was wondering sending out flyers and then wondering how they heard about the program for those that are using the organics bags.

Ms. Holmes was wondering about putting a flyer in the water bill.

E. **Environmental Updates from Environmental Board Members**

Mr. Sullivan attended the year-end recycling meeting in Anoka County and he has adopted a street drain.

**F. Blue Heron Parade**

The VFW composted organics last year but not this year. Could have gotten a lot more organics but the VFW is under a new manager from last year.

Mr. Sullivan thought the celebration went pretty well.

Mr. Kvendru had a great idea and put the banner out front.

**VIII. ADJOURNMENT**

Ms. Andrzejewski made a MOTION to adjourn the meeting at 8:00 p.m. Motion was supported by Ms. Kaufenberg. Motion carried 6 - 0.

Respectfully submitted,  
Mary Fogarty  
City of Lino Lakes

**ENVIRONMENTAL BOARD  
AGENDA ITEM 7A**

**STAFF ORIGINATOR:** Marty Asleson, Environmental Coordinator

**MEETING DATE:** September 25, 2019

**REQUEST:** Stern Addition  
6820 West Shadow Lake Dr.

**APPLICANT:** James & Sheryl Stern

---

**PROPOSED DEVELOPMENT**

The project consists of a new lot that will be created by splitting a lot with an existing residence located at 6820 West Shadow Lake Drive. The total gross area is 0.98 acres, with .07 acres of existing wetlands. The property is currently zoned R-1X (Single Family Executive). The project is in a Shoreland Management Overlay District. The property is in MUSA.

Lot area 1 (future home sit) is 20, 832 square feet. Lot area two (existing home site) is 21, 925 square feet. The percentage of impervious is 18%, and 19.8 % respectively.

**EXISTING SITE CONDITIONS**

Soils

The soils consist of Zimmerman fine sands and closer to the lake, Beach Sand.

Land Cover

The land cover on this lot is classified as 11% to 25% impervious cover with deciduous trees.

Significant Resources/Wetlands

The Lake is significant. Wetlands on the site are significant. Both must be protected. There are no National Heritage points on this site, or other local resources indicators of rare species.

Wetlands

There are three wetlands identified on the site. Wetlands total .12 acres. Rice Creek Watershed is reviewed the wetland delineation for this site and approved it. There are no wetland impacts proposed.

### Flood Plain

There must be compensation for proposed floodplain. There are 38 cubic yards of flood plain loss and a proposed 39 yards of compensatory floodplain. The mitigation of this loss is proposed in a constructed mitigation pond.

### Tree Preservation

A Tree Inventory was submitted. There are 8 trees proposed for removal in the construction areas for the house and the mitigation pond. Adjacent trees to the disturbance areas should be protected with a barrier.

## ANALYSIS

### Storm Water Management and Erosion and Sediment Control

Reshenau Lake is classified as a Recreational Development Lake with an ordinary high water elevation of 883.5.

Setbacks from the Ordinary High Water elevation must be at least 75 feet on a sewerred recreational lake.

The proposed subdivision is in a Shoreland Management Overlay District. With regards to this, the overlay district is a statutory requirement to regulate the development of land along lake shores. The purpose of the Overlay District is to protect surface water quality, near shore habitat, and shoreland aesthetics.

Shoreland Alterations are regulated in a Shoreland Management area. For instance, The removal or alteration of natural vegetation, except for agricultural and forest management uses shall be restricted to prevent erosion into protected waters, to consume nutrients in the soil and to preserve shoreland aesthetic.

Removal of natural vegetation in the Shoreland Overlay District is allowed subject to the following standards:

1. Clear cutting of natural vegetation is prohibited.
2. Limited clearing of trees and shrubs and cutting, pruning and trimming of trees are allowed in the District.

The maximum amount of impervious allowed per lot is 30%. The lots meet the requirement.

An NPDES permit is not needed for this site. A stormwater management plan is needed, and must be submitted.

The submittal shows silt fence around the wetland basin

Stormwater discharge rates must not change for the site.

Stormwater quality is proposed with an impervious disconnect. In other words, drain pipes from house are not piped to the lake, but allowed to flow over a vegetated area.

The DNR standards for shoreland should be applied, including minimizing vegetation loss, and a buffer from the lake that must average 20 feet. Landscaping in this area would exclude sod-type grasses that are mowed. The property owner should submit a planting plan for alternative ground cover in this area. This could consist of native forbes and grasses, or where there are existing trees, a shade tolerant woodland seed mix, alternative no-mow lawn. A garden area based on design of Rice Creek Watershed, or Conservation District models are also acceptable.

There are wetlands on the site. The wetlands will not be impacted. Wetlands on the site must be protected.

There is a proposed 0.19 acres of land disturbance. An erosion control plan is required. Wetlands on the site are shown with silt-fence for a BMP.

Flood plain mitigation is shown as a created basin on the downslope side of the wetlands. A native seed mix is proposed for restoration of the created basin.

There is a boulevard tree required for each site. The costs for these trees should be escrowed.

### **RECOMMENDATION**

Recommend the approval of the subdivision plan at 6820 West Shadow Lake Drive with Staff recommendations and any further recommendations of the Lino Lakes Environmental Board.

### **ATTACHMENTS**

1. Stern Addition Plan Set
2. Wetland Information and Other Resources Inventory



# CERTIFICATE OF SURVEY WITH RESOURCE INVENTORY MAP

~for~ JAMES AND SHERYL STERN  
 ~of~ 6820 W. SHADOW LAKE DRIVE  
 LINO LAKES, MN 55014

## PROPERTY DESCRIPTION:

Lot 1, Block 1, LAKES ADDITION NO. 5, Anoka County, Minnesota.

## NOTES:

- Field survey was completed by E.G. Rud and Sons, Inc. on 7/18/2019.
- Bearings shown are on Anoka County datum.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion.
- Parcel ID No: 20-31-22-44-0008.
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance floodplain) and Flood Zone AE (base flood elevation 887) according to Flood Insurance Rate Map Community No. 270015 Panel No. 0365 Suffix E by the Federal Emergency Management Agency, effective date December 16, 2015.
- W. Shadow Lake Drive was under construction at the time this survey was completed.
- Wetland delineation completed by Jacobson Environmental.

## LEGEND

- DENOTES IRON MONUMENT FOUND AS LABELED
- ⊕ DENOTES ANOKA COUNTY CAST IRON MONUMENT
- ⊕ DENOTES CABLE PEDESTAL
- X 952.36 DENOTES EXISTING SPOT ELEVATION
- OHW DENOTES GUY WIRE
- DENOTES POWER POLE AND OVERHEAD WIRES
- ⊕ DENOTES WELL
- DENOTES EXISTING CONTOURS
- DENOTES GRAVEL SURFACE
- DENOTES CONCRETE SURFACE
- WET DENOTES DELINEATED WETLAND BY JACOBSON ENVIRONMENTAL, PLLC IN JULY 2019.

## TREE DETAIL

- DENOTES ELEVATION
- DENOTES TAG NUMBER

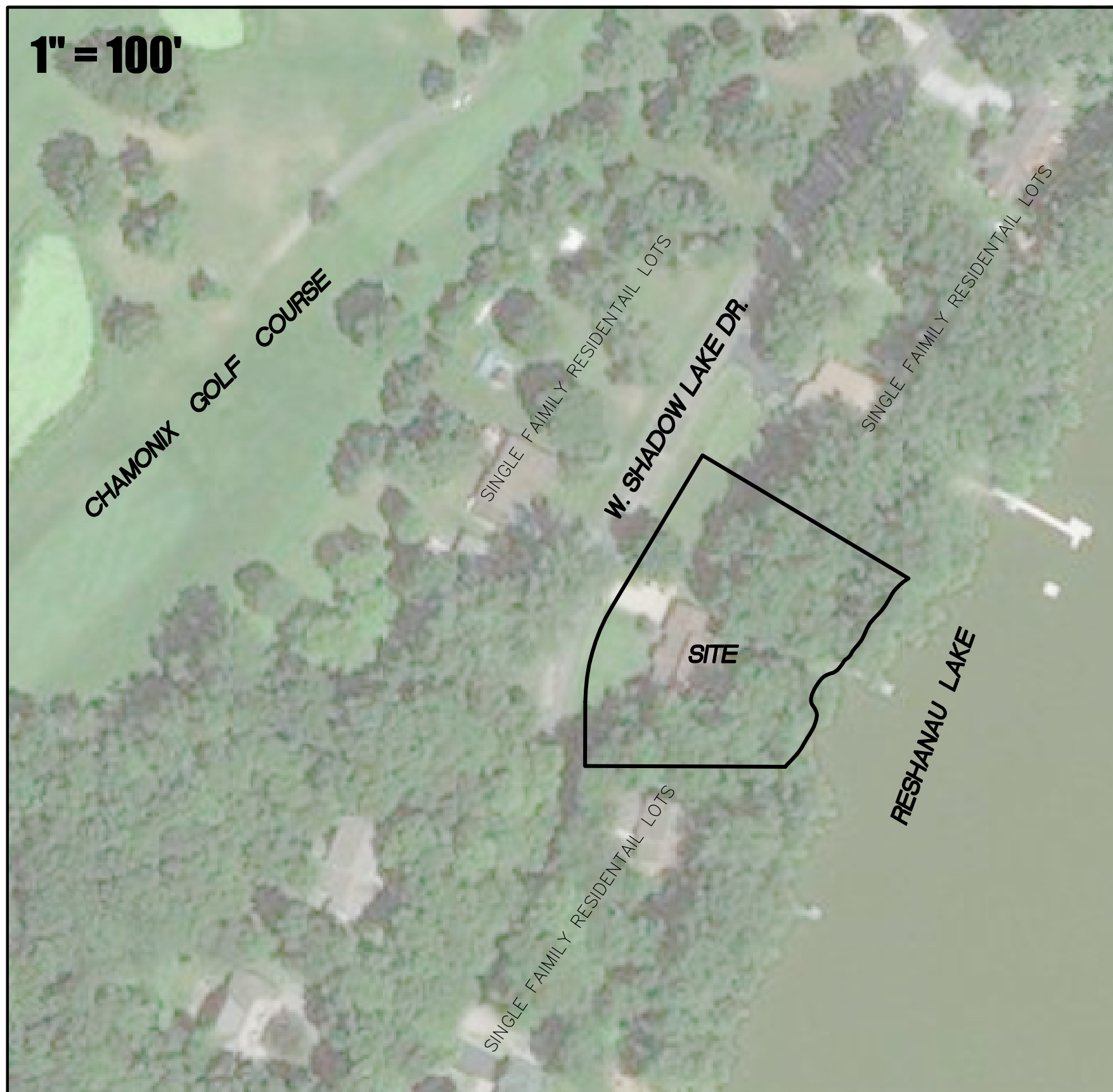
(SEE SHEET 4 FOR TREE SPECIES AND SIZES)

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

*Jason E. Rud*  
 JASON E. RUD

Date: 9/12/2019 License No. 41578

## NEIGHBORHOOD CONTEXT



## AREAS

TOTAL GROSS AREA = 42,757 S.F. (0.98 ACRES) 100%  
 EXISTING WETLAND = 2,100 S.F. (0.07 ACRES) 4.9%

## ZONING

THIS PROPERTY IS CURRENTLY ZONED R-1X (SINGLE FAMILY EXECUTIVE) AND IS IN A SHORELAND MANAGEMENT OVERLAY DISTRICT PER CITY OF LINO LAKES PLANNING DEPARTMENT.

## GUIDING

EXISTING GUIDANCE: LOW DENSITY RESIDENTIAL.

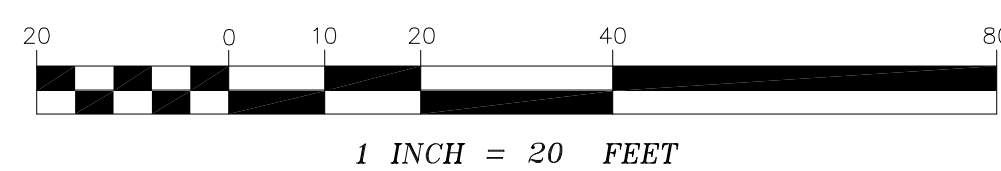
## MUSA

PROPERTY IS IN THE MUSA DISTRICT.

## TABLE OF CONTENTS

- SHEET 1 - CERT. OF SURVEY
- SHEET 2 - PRELIMINARY PLAT
- SHEET 3 - PRELIMINARY GRADING, DRAINAGE AND EROSION CONTROL PLAN
- SHEET 4 - TREE INVENTORY/REMOVAL PLAN
- SHEET 5 - UTILITY EXHIBIT
- SHEET 6 - CLOMR-F EXHIBIT

## GRAPHIC SCALE



NORTH



## BENCHMARK

MNDOT STATION: OTTER MNDT RESET  
 ELEVATION: 888.77 (NAVD 88)

NO.	DATE	DESCRIPTION	BY
1	9/12/19	CITY COMMENTS	BAB
2			
3			

**E. G. RUD & SONS, INC.**  
 Professional Land Surveyors  
 6776 Lake Drive NE, Suite 110  
 Lino Lakes, MN 55014  
 Tel. (651) 361-8200 Fax (651) 361-8701

PRELIMINARY PLAT OF:

# STERN ADDITION

**PROPERTY OWNER**  
**JAMES AND SHERYL STERN**  
 6820 W. SHADOW LAKE DRIVE  
 LINO LAKES, MN 55014

**PROPERTY DESCRIPTION:**

Lot 1, Block 1, LAKES ADDITION NO. 5, Anoka County, Minnesota.

**NOTES:**

- Field survey was completed by E.G. Rud and Sons, Inc. on 7/18/2019.
- Bearings shown are on Anoka County datum.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion.
- Parcel ID No: 20-31-22-44-0008. Parcel area = 42,757 sq. ft. to shoreline (41,741 above OHWL).
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance floodplain.) and Flood Zone AE (base flood elevation 887) according to Flood Insurance Rate Map Community No. 270015 Panel No. 0365 Suffix E by the Federal Emergency Management Agency, effective date December 16, 2015.
- W. Shadow Lake Drive was under construction at the time this survey was completed.
- Wetland delineation completed by Jacobson Environmental.

**LEGEND**

- DENOTES IRON MONUMENT FOUND AS LABELED
- DENOTES ANOKA COUNTY CAST IRON MONUMENT
- ⊗ DENOTES CABLE PEDESTAL
- x 952.36 DENOTES EXISTING SPOT ELEVATION
- DENOTES GUY WIRE
- CHW — DENOTES POWER POLE AND OVERHEAD WIRES
- ⊕ DENOTES WELL
- DENOTES EXISTING CONTOURS
- ▨ DENOTES GRAVEL SURFACE
- ▩ DENOTES CONCRETE SURFACE
- WET — DENOTES DELINEATED WETLAND BY JACOBSON ENVIRONMENTAL, PLLC IN JULY 2019.
- BLD5B — DENOTES MINIMUM BUILDING SETBACK

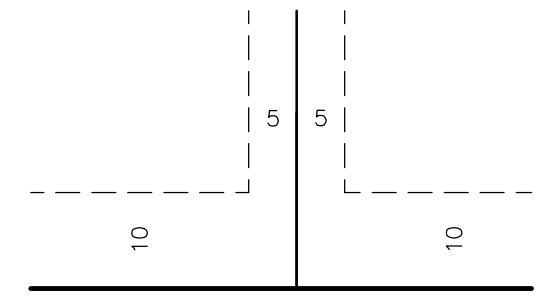
**TREE DETAIL**

- DENOTES ELEVATION
- DENOTES TAG NUMBER

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

*Jason E. Rud*  
 JASON E. RUD  
 Date: 9/12/2019 License No. 41578

DRAINAGE AND UTILITY EASEMENTS ARE SHOWN THUS:



BEING 5 FEET IN WIDTH AND ADJOINING SIDE LOT LINES AND 10 FEET IN WIDTH AND ADJOINING STREET LINES AND REAR LOT LINES, UNLESS OTHERWISE SHOWN ON THIS PLAT.

**ZONING:**

This property is currently zoned R-1X (Single Family Executive) and is in a Shoreland Management Overlay District per City of Lino Lakes Planning Department. Lot standards are as follows:

Minimum lot size = 20,000 sq. ft.  
 Minimum lot width (interior) = 90 ft.  
 Minimum lot depth = 135 ft.

Principal Structure Setbacks:  
 Front = 30 ft.  
 Side = 10 ft.  
 OHWL = 75 ft.

Maximum impervious surface coverage = 30%

Comprehensive Plan = Low Density Residential.

**AREAS:**

Total existing parcel area = 42,757 sq. ft.  
 Existing parcel area above OHWL = 41,741 sq. ft.  
 Existing upland area = 40,657 sq. ft. (excludes wetlands)

Proposed Lot 1  
 Total area = 20,832 sq. ft.  
 Area above OHWL = 20,018 sq. ft.  
 Impervious surface area = 3,612 sq. ft. (18.0% of area above OHWL)

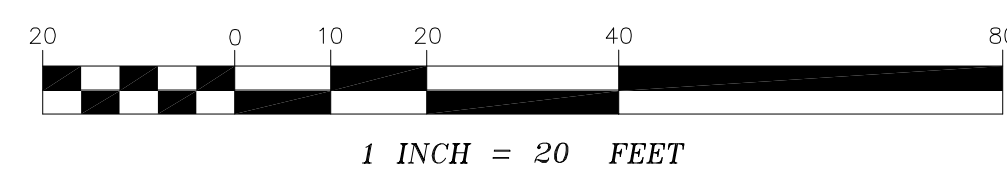
Proposed Lot 2  
 Total area = 21,925 sq. ft.  
 Area above OHWL = 21,723 sq. ft.  
 Impervious surface area = 4,295 sq. ft. (19.8% of area above OHWL)

MAXIMUM DRIVEWAY WIDTH OF 26 FEET IN RIGHT OF WAY



NORTH

GRAPHIC SCALE



**BENCHMARK**

MNDOT STATION: OTTER MNDT RESET  
 ELEVATION: 888.77 (NAVD 88)

**E. G. RUD & SONS, INC.**  
 Professional Land Surveyors  
 6776 Lake Drive NE, Suite 110  
 Lino Lakes, MN 55014  
 Tel. (651) 361-8200 Fax (651) 361-8701

DRAWN BY: BAB	JOB NO: 19544PP	DATE: 9/3/2019
CHECK BY: JER	SCANNED <input type="checkbox"/>	
1	9/12/19	CITY COMMENTS
2		
3		
NO.	DATE	DESCRIPTION
		BY

PRELIMINARY GRADING, DRAINAGE AND EROSION CONTROL PLAN OF:

# STERN ADDITION

PROPERTY OWNER  
**JAMES AND SHERYL STERN**  
 6820 W. SHADOW LAKE DRIVE  
 LINO LAKES, MN 55014

## PROPERTY DESCRIPTION:

Lot 1, Block 1, LAKES ADDITION NO. 5, Anoka County, Minnesota.

## NOTES:

- Field survey was completed by E.G. Rud and Sons, Inc. on 7/18/2019.
- Bearings shown are on Anoka County datum.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion.
- Parcel ID No: 20-31-22-44-0008. Parcel area = 42,757 sq. ft. to shoreline (41,741 above OHWL).
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance floodplain.) and Flood Zone AE (base flood elevation 887) according to Flood Insurance Rate Map Community No. 270015 Panel No. 0365 Suffix E by the Federal Emergency Management Agency, effective date December 16, 2015.
- W. Shadow Lake Drive was under construction at the time this survey was completed.
- Wetland delineation completed by Jacobson Environmental.
- FLOODPLAIN FILL = 38± cu. yd. (below 887.0)
- COMPENSATORY STORAGE = 39± cu. yd. (between 883.8-887.0)

## LEGEND

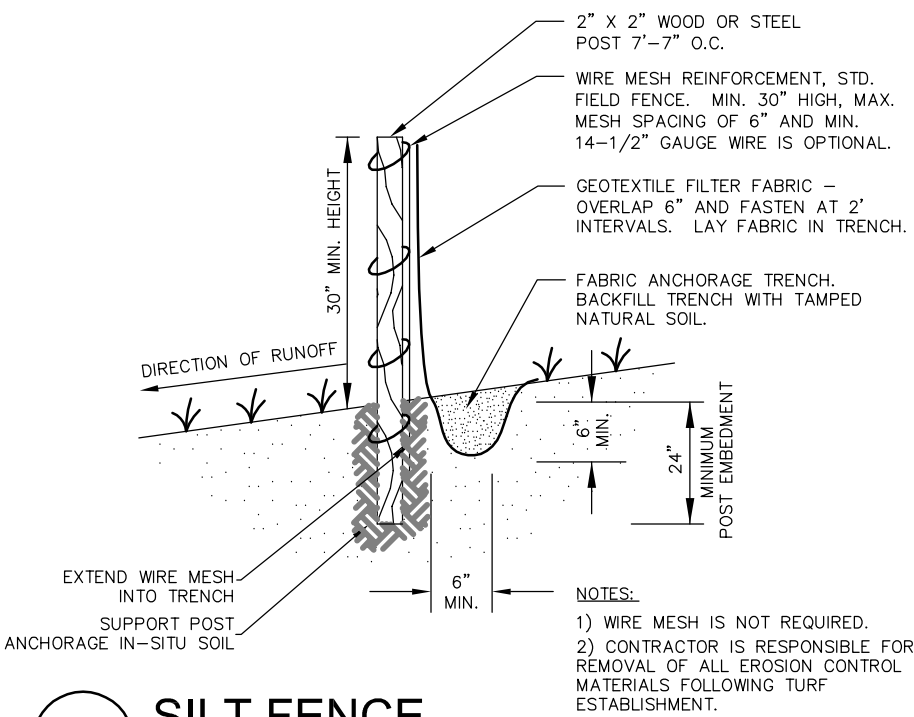
- DENOTES IRON MONUMENT FOUND AS LABELED
- DENOTES ANOKA COUNTY CAST IRON MONUMENT
- DENOTES CABLE PEDESTAL
- x 952.36 DENOTES EXISTING SPOT ELEVATION
- DENOTES GUY WIRE
- ⊕ DENOTES POWER POLE AND OVERHEAD WIRES
- ⊙ DENOTES WELL
- DENOTES EXISTING CONTOURS
- ▨ DENOTES GRAVEL SURFACE
- ▩ DENOTES CONCRETE SURFACE
- WET DENOTES DELINEATED WETLAND BY JACOBSON ENVIRONMENTAL, PLLC IN JULY 2019.
- BLDSS DENOTES MINIMUM BUILDING SETBACK
- S DENOTES PROPOSED SILT FENCE
- DENOTES SOIL BORING BY ALLIED ENGINEERING
- DENOTES DIRECTION OF SURFACE DRAINAGE

## TREE DETAIL

- DENOTES ELEVATION
- DENOTES TAG NUMBER

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

*Jason E. Rud*  
 JASON E. RUD  
 Date: 9/12/2019 License No. 41578



## ZONING:

This property is currently zoned R-1X (Single Family Executive) and is in a Shoreland Management Overlay District per City of Lino Lakes Planning Department. Lot standards are as follows:

Minimum lot size = 20,000 sq. ft.  
 Minimum lot width (interior) = 90 ft.  
 Minimum lot depth = 135 ft.

Principal Structure Setbacks:  
 Front = 30 ft.  
 Side = 10 ft.  
 OHWL = 75 ft.

Maximum impervious surface coverage = 30%

## AREAS:

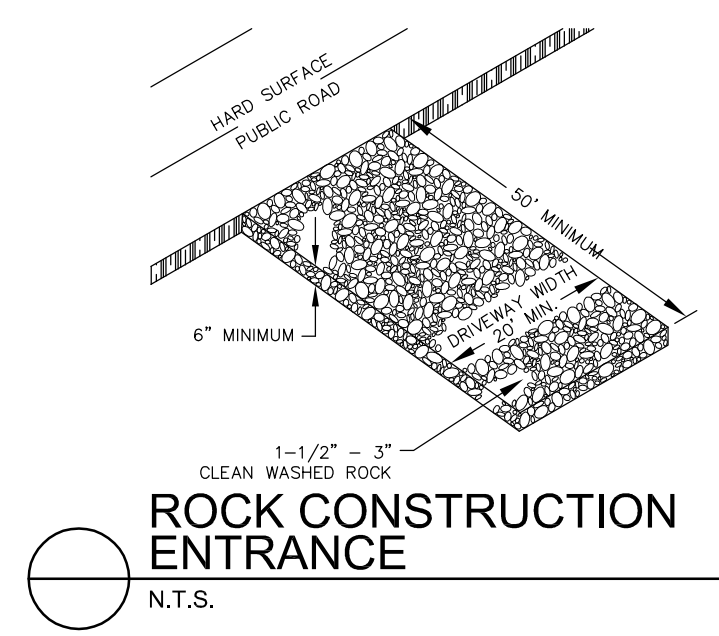
Total existing parcel area = 42,757 sq. ft.  
 Existing parcel area above OHWL = 41,741 sq. ft.  
 Existing upland area = 40,657 sq. ft. (excluding wetlands)

Proposed Lot 1  
 Total area = 20,832 sq. ft.  
 Area above OHWL = 20,018 sq. ft.  
 Impervious surface area = 3,612 sq. ft. (18.0% of area above OHWL)

Proposed Lot 2  
 Total area = 21,925 sq. ft.  
 Area above OHWL = 21,723 sq. ft.  
 Impervious surface area = 4,295 sq. ft. (19.8% of area above OHWL)

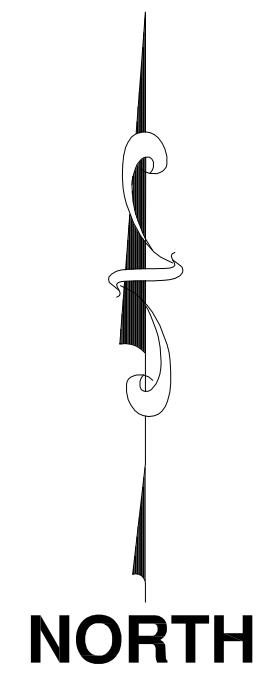
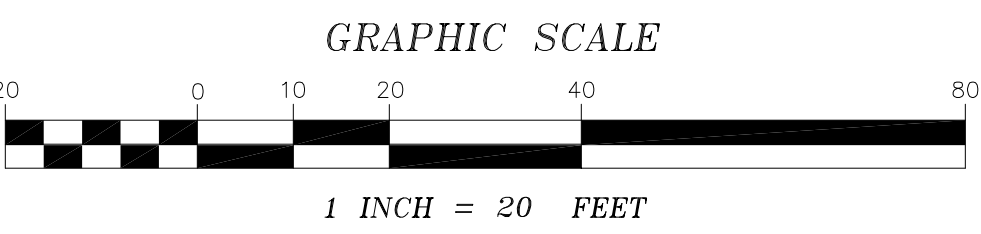
## EROSION CONTROL / REVEGETATION SPECS.

1. PRIOR TO ROUGH GRADING, INSTALL SILT STOP FENCE IN LOCATIONS SHOWN. ADDITIONAL SILT STOP FENCE WILL BE REQUIRED WHERE LOCAL CONDITIONS REQUIRE. INSTALL TREE PROTECTION AS DEEMED NECESSARY BY THE CITY FORESTER PRIOR TO ANY GRADING.
2. ANY GRADING SHALL PROCEED ON AN AREA BY AREA BASIS TO MINIMIZE UNCOMPLETED AREAS.
3. AS EACH AREA OUTSIDE THE STREET IS GRADED, PROVIDE NATIVE TOPSOIL, SEED, AND MULCH ANCHORED WITH A STRAIGHT SET DISC WITHIN 14 DAYS AFTER ROUGH GRADING.
4. MAINTAIN AND REPAIR SILT STOP FENCES (INCLUDING REMOVAL OF ACCUMULATED SILT) UNTIL VEGETATION IS ESTABLISHED.



ROCK CONSTRUCTION ENTRANCE  
 N.T.S.

ZONED R-1X



## BENCHMARK

MNDOT STATION: OTTER MNDT RESET  
 ELEVATION: 888.77 (NAVD 88)

DRAWN BY: BAB		JOB NO: 19544PP		DATE: 9/6/2019	
CHECK BY: JER		SCANNED			
1	9/12/19	CITY COMMENTS		BAB	
2					
3					
NO.	DATE	DESCRIPTION		BY	

**E. G. RUD & SONS, INC.**  
 Professional Land Surveyors  
 6776 Lake Drive NE, Suite 110  
 Lino Lakes, MN 55014  
 Tel. (651) 361-8200 Fax (651) 361-8701

TREE INVENTORY/REMOVALS FOR:

# STERN ADDITION

PROPERTY OWNER  
**JAMES AND SHERYL STERN**  
 6820 W. SHADOW LAKE DRIVE  
 LINO LAKES, MN 55014

**PROPERTY DESCRIPTION:**

Lot 1, Block 1, LAKES ADDITION NO. 5, Anoka County, Minnesota.

**NOTE:**

Any required replacement plantings to be determined by city. Replacement to be incorporated with construction of new home on Lot 1.

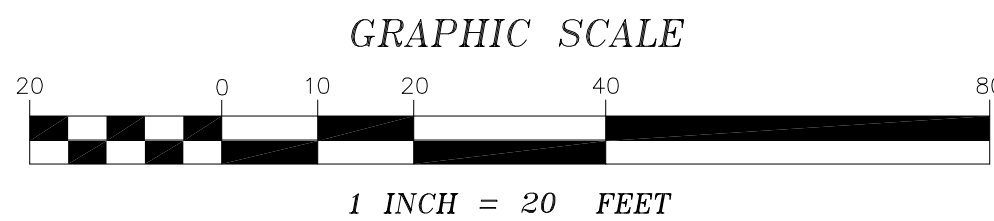
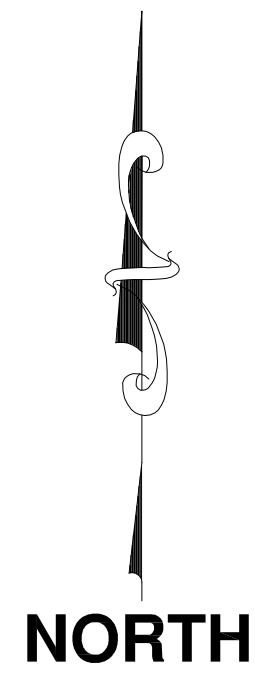
✕ ----- DENOTES TREE TO BE REMOVED

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

  
 JASON E. RUD

Date: 9/12/2019 License No. 41578

TREE NO.	SPECIES	CALIPER (IN.)	TRUNKS
460	ASH	7	
461	ELM	13	
462	ASH	10	3
463	BASSWOOD	8	
464	ASH	9	
465	ASH	7	
466	COTTONWOOD	17	
467	COTTONWOOD	18	7
468	COTTONWOOD	18	
469	COTTONWOOD	7	
470	ASH	8	
471	COTTONWOOD	14	
472	MAPLE	12	4
473	COTTONWOOD	18	
474	COTTONWOOD	20	
475	COTTONWOOD	18	
476	ASH	14	
477	COTTONWOOD	12	
478	COTTONWOOD	24	
479	COTTONWOOD	20	
480	COTTONWOOD	20	
481	COTTONWOOD	22	
482	COTTONWOOD	22	
483	COTTONWOOD	22	
484	ASH	10	
485	ASH	16	
486	ELM	8	
487	COTTONWOOD	30	
488	BASSWOOD	27	
489	BASSWOOD	9	
490	BASSWOOD	12	
491	COTTONWOOD	36	
492	MAPLE	30	
493	MAPLE	30	
494	MAPLE	12	3
495	ELM	15	
496	APPLE	12	
497	MAPLE	20	3
498	ASH	24	
499	COTTONWOOD	40	
500	ASH	8	
501	BASSWOOD	36	
502	MAPLE	50	
503	MAPLE	12	
504	MAPLE	9	
505	COTTONWOOD	18	



**BENCHMARK**

MNDOT STATION: OTTER MNDT RESET  
 ELEVATION: 888.77 (NAVD 88)

DRAWN BY: BAB	JOB NO: 19544PP	DATE: 9/3/2019	
CHECK BY: JER	SCANNED <input type="checkbox"/>		
1	9/12/19	CITY COMMENTS	
2			
3			
NO.	DATE	DESCRIPTION	BY

 **E. G. RUD & SONS, INC.**  
 EST. 1977 Professional Land Surveyors  
 6776 Lake Drive NE, Suite 110  
 Lino Lakes, MN 55014  
 Tel. (651) 361-8200 Fax (651) 361-8701  
 www.egrud.com

UTILITY EXHIBIT FOR:

# STERN ADDITION

**PROPERTY OWNER**  
**JAMES AND SHERYL STERN**  
 6820 W. SHADOW LAKE DRIVE  
 LINO LAKES, MN 55014

**PROPERTY DESCRIPTION:**

Lot 1, Block 1, LAKES ADDITION NO. 5, Anoka County, Minnesota.

**NOTES:**

- Field survey was completed by E.G. Rud and Sons, Inc. on 7/18/2019.
- Bearings shown are on Anoka County datum.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion.
- Parcel ID No: 20-31-22-44-0008.  
Parcel area = 42,757 sq. ft. to shoreline (41,741 above OHWL).
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance floodplain.) and Flood Zone AE (base flood elevation 887) according to Flood Insurance Rate Map Community No. 270015 Panel No. 0365 Suffix E by the Federal Emergency Management Agency, effective date December 16, 2015.
- W. Shadow Lake Drive was under construction at the time this survey was completed.
- Wetland delineation completed by Jacobson Environmental.

**ZONING:**

This property is currently zoned R-1X (Single Family Executive) and is in a Shoreland Management Overlay District per City of Lino Lakes Planning Department. Lot standards are as follows:

Minimum lot size = 20,000 sq. ft.  
 Minimum lot width (interior) = 90 ft.  
 Minimum lot depth = 135 ft.

Principal Structure Setbacks:  
 Front = 30 ft.  
 Side = 10 ft.  
 OHWL = 75 ft.

Maximum impervious surface coverage = 30%

**AREAS:**

Total existing parcel area = 42,757 sq. ft.  
 Existing parcel area above OHWL = 41,741 sq. ft.  
 Existing upland area = 40,657 sq. ft.

Proposed Lot 1  
 Total area = 20,832 sq. ft.  
 Area above OHWL = 20,018 sq. ft.  
 Impervious surface area = xxxx sq. ft. (xxx% of area above OHWL)

Proposed Lot 2  
 Total area = 21,925 sq. ft.  
 Area above OHWL = 21,723 sq. ft.  
 Impervious surface area = 4,295 sq. ft. (19.8% of area above OHWL)

**LEGEND**

- DENOTES IRON MONUMENT FOUND AS LABELED
- ◻ DENOTES ANOKA COUNTY CAST IRON MONUMENT
- ◻ DENOTES CABLE PEDESTAL
- DENOTES EXISTING SPOT ELEVATION
- DENOTES GUY WIRE
- DENOTES POWER POLE AND OVERHEAD WIRES
- DENOTES WELL
- DENOTES EXISTING CONTOURS
- DENOTES GRAVEL SURFACE
- DENOTES CONCRETE SURFACE
- DENOTES DELINEATED WETLAND BY JACOBSON ENVIRONMENTAL, PLLC IN JULY 2019.
- DENOTES MINIMUM BUILDING SETBACK
- DENOTES PROPOSED WATERMAIN
- DENOTES PROPOSED SANITARY FORCEMAIN

**TREE DETAIL**

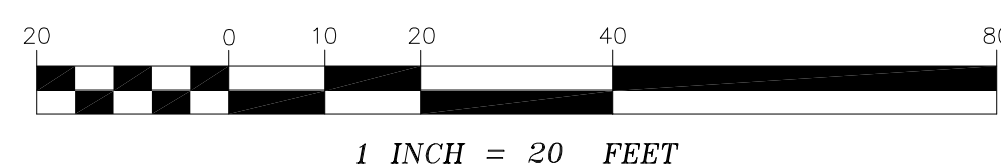
- DENOTES ELEVATION
- DENOTES TAG NUMBER

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

*JASON E. RUD*  
 JASON E. RUD  
 Date: 9/12/2019 License No. 41578

NORTH

GRAPHIC SCALE



**BENCHMARK**

MNDOT STATION: OTTER MNDT RESET  
 ELEVATION: 888.77 (NAVD 88)

**E. G. RUD & SONS, INC.**  
 Professional Land Surveyors  
 6776 Lake Drive NE, Suite 110  
 Lino Lakes, MN 55014  
 Tel. (651) 361-8200 Fax (651) 361-8701

DRAWN BY: BAB	JOB NO: 19544PP	DATE: 9/3/2019
CHECK BY: JER	SCANNED	
1	9/12/19	CITY COMMENTS
2		
3		
NO.	DATE	DESCRIPTION
		BY

# CLOMR-F EXHIBIT

~for~ JAMES AND SHERYL STERN  
 ~of~ 6820 W. SHADOW LAKE DRIVE  
 LINO LAKES, MN 55014


## PROPERTY DESCRIPTION:

Lot 1, Block 1, LAKES ADDITION NO. 5, Anoka County, Minnesota.

## DESCRIPTION OF TRACT TO BE REMOVED FROM FLOOD ZONE AE:

That part of Lot 1, Block 1, LAKES ADDITION NO. 5, Anoka County, Minnesota described as follows:


Beginning at the southwest corner of said Lot 1; thence South 89 degrees 47 minutes 05 seconds East, along the south line of said Lot 1, a distance of 47.64 feet; thence North 10 degrees 04 minutes 15 seconds East a distance of 5.94 feet; thence North 44 degrees 14 minutes 08 seconds East a distance of 17.64 feet; thence North 72 degrees 31 minutes 30 seconds East a distance of 14.43 feet; thence North 83 degrees 22 minutes 41 seconds East a distance of 11.43 feet; thence South 83 degrees 44 minutes 45 seconds East a distance of 14.70 feet; thence North 66 degrees 31 minutes 25 seconds East a distance of 4.54 feet; thence North 38 degrees 33 minutes 08 seconds East a distance of 9.75 feet thence North 12 degrees 12 minutes 03 seconds West a distance of 7.80 feet; thence North 52 degrees 38 minutes 48 seconds West a distance of 10.33 feet; thence North 21 degrees 21 minutes 36 seconds East a distance of 11.16 feet; thence South 77 degrees 57 minutes 26 seconds East a distance of 11.41 feet; thence North 82 degrees 09 minutes 35 seconds East a distance of 13.46 feet; thence North 50 degrees 35 minutes 27 seconds East a distance of 7.65 feet; thence North 21 degrees 24 minutes 08 seconds East a distance of 6.68 feet; thence North 06 degrees 02 minutes 47 seconds East a distance of 12.46 feet; thence North 06 degrees 02 minutes 35 seconds West a distance of 26.11 feet; thence North 15 degrees 15 minutes 31 seconds East a distance of 31.81 feet; thence North 30 degrees 45 minutes 11 seconds East a distance of 66.22 feet; thence North 10 degrees 12 minutes 02 seconds West a distance of 4.78 feet; thence North 58 degrees 55 minutes 38 seconds West a distance of 51.32 feet; thence North 32 degrees 03 minutes 30 seconds East a distance of 16.53 feet to the north line of said Lot 1; thence North 59 degrees 08 minutes 50 seconds West along said north line a distance of 34.44 feet to the northwest corner of said Lot 1; thence South 30 degrees 51 minutes 10 seconds West along the west line of said Lot 1 a distance of 145.59 feet; thence continuing on said west line along a tangential curve a distance of 81.57 feet, said curve being concave to the east, having a radius of 152.54 feet and a central angle of 30 degrees 38 minutes 13 seconds; thence continuing along said west line South 00 degrees 12 minutes 57 seconds West, tangent to last described curve, a distance of 52.77 feet to the point of beginning.

 DENOTES TRACT TO BE REMOVED FROM FLOOD ZONE AE (AREA = 24,036 SQ. FT.)

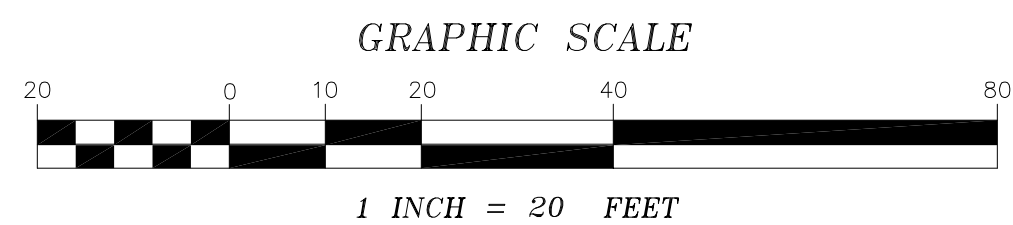
## NOTES:

- Field survey was completed by E.G. Rud and Sons, Inc. on 7/18/2019.
- Bearings shown are on Anoka County datum.
- This survey was prepared without the benefit of title work. Additional easements, restrictions and/or encumbrances may exist other than those shown hereon. Survey subject to revision upon receipt of a current title commitment or an attorney's title opinion.
- Parcel ID No: 20-31-22-44-0008.  
Parcel area = 42,757 sq. ft. to shoreline (41,741 above OHWL).
- Surveyed premises shown on this survey map is in Flood Zone X (Areas determined to be outside the 0.2% annual chance floodplain.) and Flood Zone AE (base flood elevation 887) according to Flood Insurance Rate Map Community No. 270015 Panel No. 0365 Suffix E by the Federal Emergency Management Agency, effective date December 16, 2015.
- W. Shadow Lake Drive was under construction at the time this survey was completed.
- Wetland delineation completed by Jacobson Environmental.
- FLOODPLAIN FILL = 38± cu. yd. (below 887.0)
- COMPENSATORY STORAGE = 39± cu. yd. (between 883.8-887.0)

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Registered Land Surveyor under the laws of the State of Minnesota.

  
 JASON E. RUD  
 Date: 9/12/2019 License No. 41578

  
**E. G. RUD & SONS, INC.**  
 EST. 1977  
 Professional Land Surveyors  
 6776 Lake Drive NE, Suite 110  
 Lino Lakes, MN 55014  
 Tel. (651) 361-8200 Fax (651) 361-8701  
 www.egrud.com



NORTH

## BENCHMARK

MNDOT STATION: OTTER MNDT RESET  
 ELEVATION: 888.77 (NAVD 88)

DRAWN BY: BAB	JOB NO: 19544PP	DATE: 9/12/2019
CHECK BY: JER	SCANNED <input type="checkbox"/>	
1	9/12/19	CITY COMMENTS
2		
3		
NO.	DATE	DESCRIPTION
		BY





## 6820 W Shadow Lake Dr

Circle Pines, MN 55014



Directions



Save



Nearby



Send to your  
phone



Share

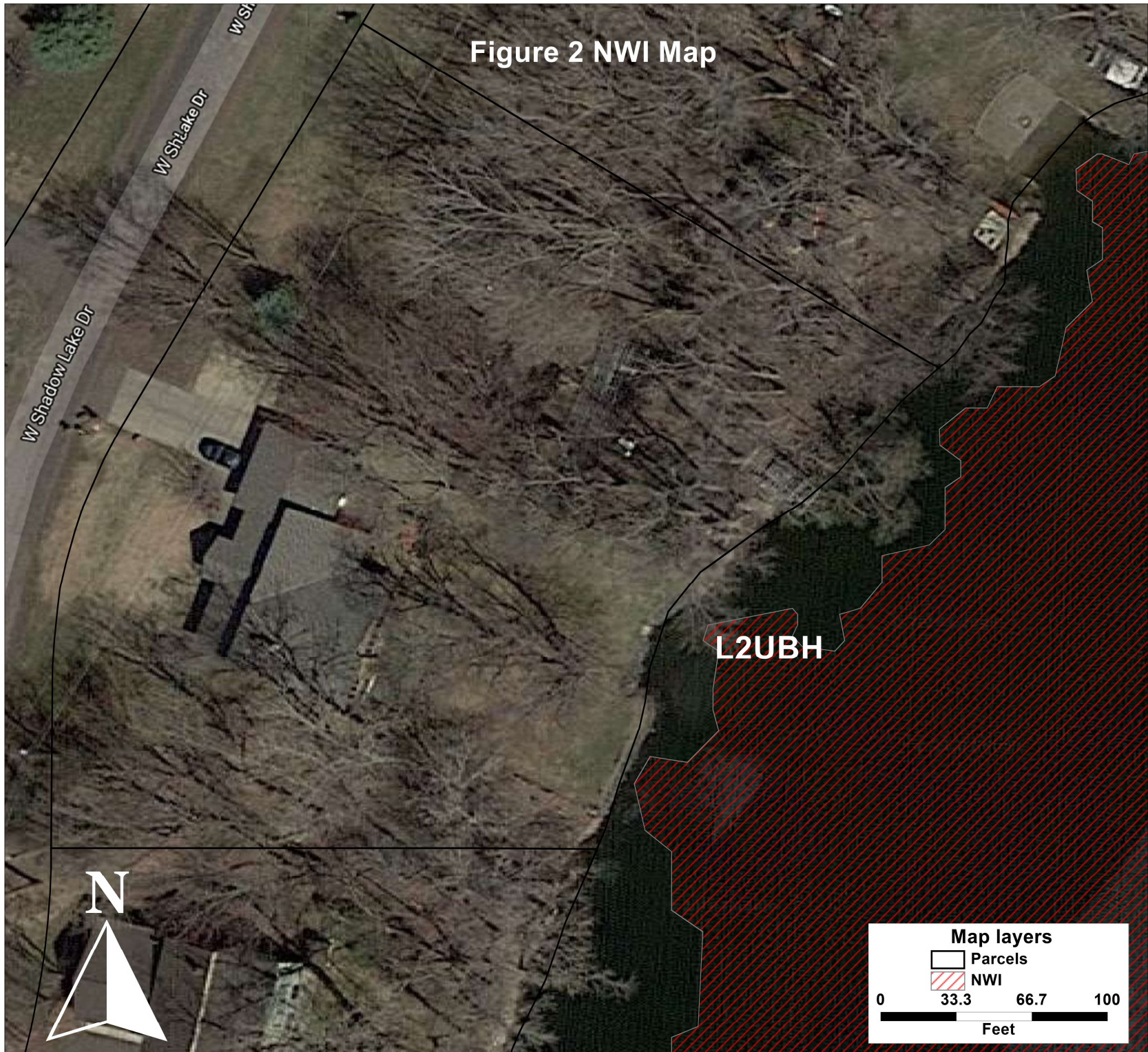
5V3W+85 Lino Lakes, White Bear Township, MN

### Photos





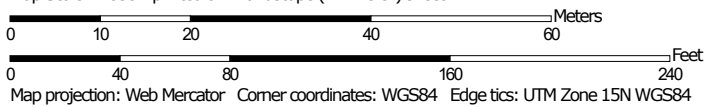
Figure 2 NWI Map



Soil Map—Anoka County, Minnesota  
(Figure 3 Soils Map)



Map Scale: 1:838 if printed on A landscape (11" x 8.5") sheet.



Soil Map—Anoka County, Minnesota  
(Figure 3 Soils Map)

### MAP LEGEND

**Area of Interest (AOI)**

 Area of Interest (AOI)




















**Soils**




 Soil Map Unit Polygons

 Soil Map Unit Lines


 Soil Map Unit Points

**Special Point Features**

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot

-  Spoil Area
-  Stony Spot
-  Very Stony Spot
-  Wet Spot
-  Other
-  Special Line Features


**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anoka County, Minnesota  
Survey Area Data: Version 16, Oct 9, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

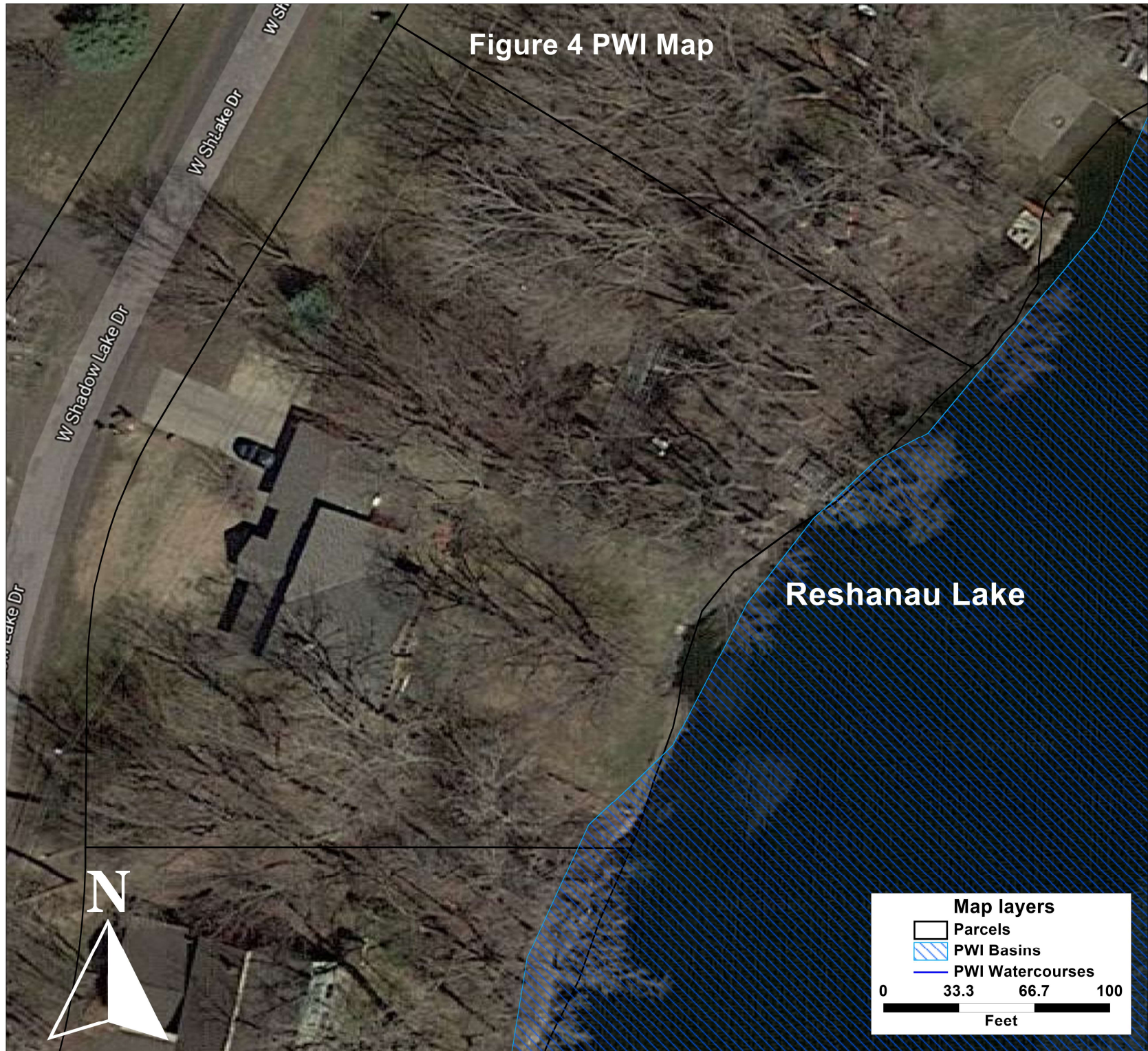
Date(s) aerial images were photographed: Apr 3, 2015—Sep 13, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Lb	Lake beaches	1.0	68.6%
W	Water	0.1	4.0%
ZmC	Zimmerman fine sand, 6 to 12 percent slopes	0.4	27.4%
<b>Totals for Area of Interest</b>		<b>1.4</b>	<b>100.0%</b>

Figure 4 PWI Map



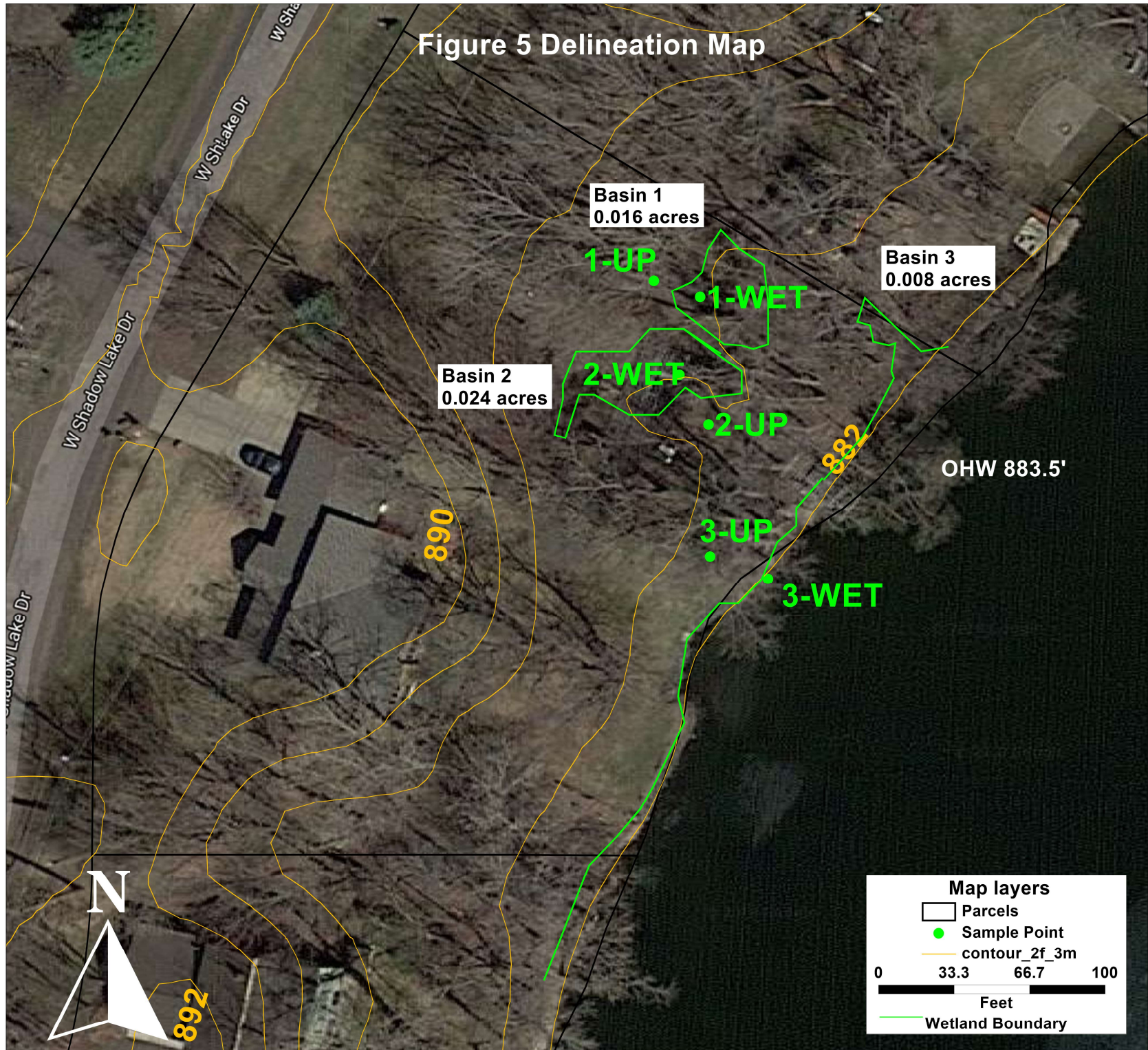
Reshanau Lake

Map layers

- Parcels
- PWI Basins
- PWI Watercourses

0 33.3 66.7 100  
Feet

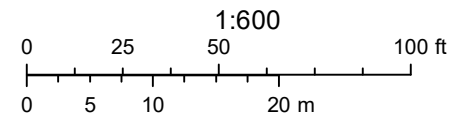
Figure 5 Delineation Map



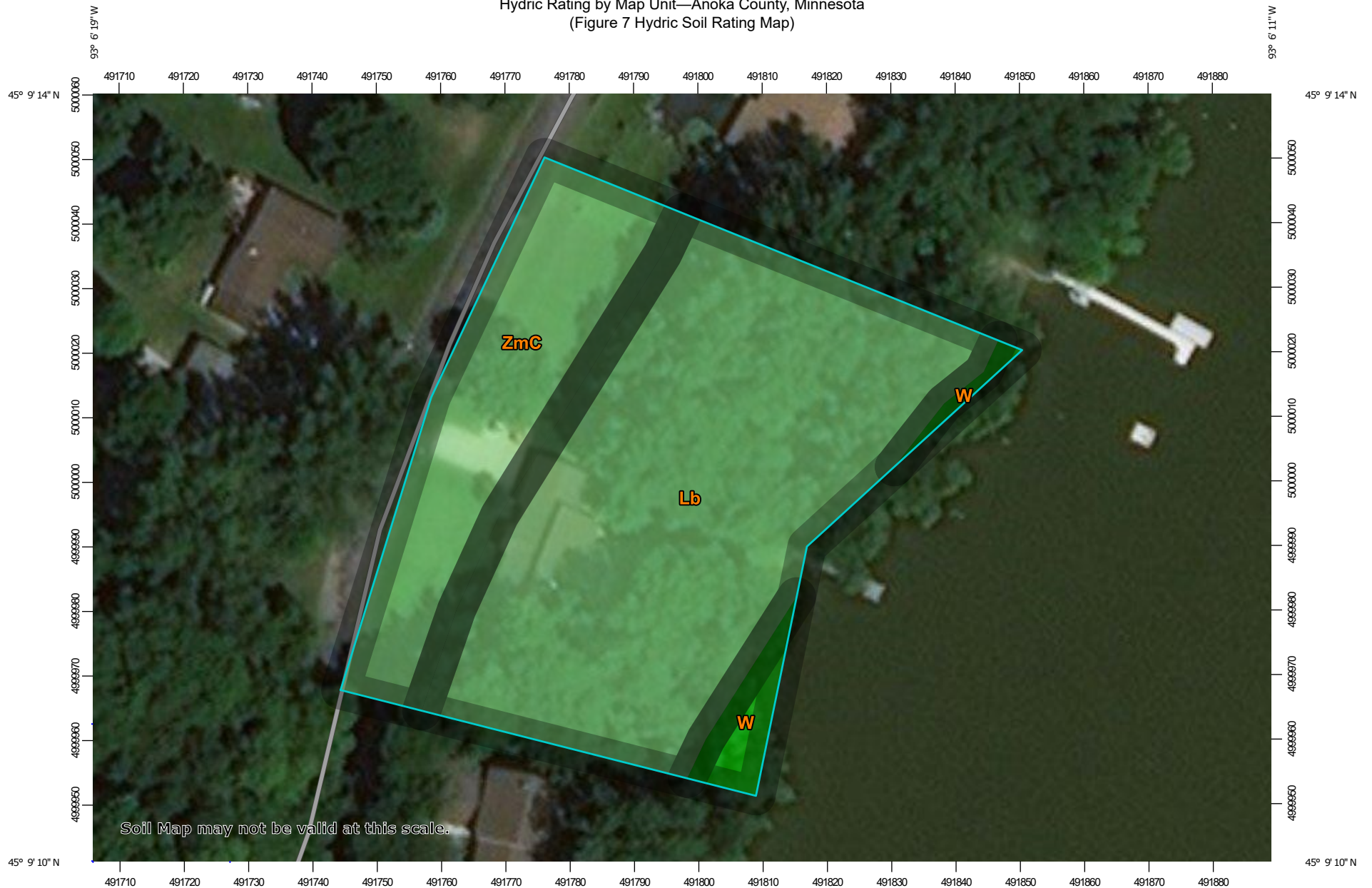
# Figure 6 Site Map



July 25, 2019



Hydric Rating by Map Unit—Anoka County, Minnesota  
(Figure 7 Hydric Soil Rating Map)



Map Scale: 1:838 if printed on A landscape (11" x 8.5") sheet.

0 10 20 40 60 Meters

0 40 80 160 240 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 15N WGS84



Hydric Rating by Map Unit—Anoka County, Minnesota  
(Figure 7 Hydric Soil Rating Map)







### MAP LEGEND

**Area of Interest (AOI)**







 Area of Interest (AOI)

**Soils**







**Soil Rating Polygons**

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


**Soil Rating Lines**

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available






**Soil Rating Points**

-  Hydric (100%)
-  Hydric (66 to 99%)
-  Hydric (33 to 65%)
-  Hydric (1 to 32%)
-  Not Hydric (0%)
-  Not rated or not available


**Water Features**

 Streams and Canals

**Transportation**

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

**Background**

 Aerial Photography

### MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

**Warning:** Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service  
Web Soil Survey URL:  
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Anoka County, Minnesota  
Survey Area Data: Version 16, Oct 9, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 3, 2015—Sep 13, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
Lb	Lake beaches	10	1.0	68.6%
W	Water	0	0.1	4.0%
ZmC	Zimmerman fine sand, 6 to 12 percent slopes	4	0.4	27.4%
<b>Totals for Area of Interest</b>			<b>1.4</b>	<b>100.0%</b>

### Rating Options

*Aggregation Method: Percent Present*

*Component Percent Cutoff: None Specified*

*Tie-break Rule: Lower*