

**CITY OF LINO LAKES  
ENVIRONMENTAL BOARD MEETING**

Wednesday, January 29, 2020  
6:30 PM

*Please be courteous and turn off all electronic devices during the meeting.*

**AGENDA**

1. CALL TO ORDER
2. PLEDGE OF ALLEGIANCE
3. APPROVAL OF AGENDA
4. APPROVAL OF MINUTES: November 20, 2019
5. OPEN MIKE
6. ACTION ITEMS
  - A. Preliminary Plat for Nadeau Acres
7. DISCUSSION ITEMS
  - A. EAB Discussion
  - B. Recycling Updates
  - C. Other Updates
8. ADJOURN

**CITY OF LINO LAKES  
ENVIRONMENTAL BOARD MINUTES**

<b>DATE</b>	: November 20, 2019
<b>TIME STARTED</b>	: 6:31 P.M.
<b>TIME ENDED</b>	: 8:08 P.M.
<b>MEMBERS PRESENT</b>	: John Sullivan (chair), Paula Andrzejewski, Liz Kaufenberg, Shawn Holmes, Wendy Nelson, Alex Schwartz
<b>MEMBERS ABSENT</b>	: Eric Flower
<b>STAFF PRESENT</b>	: Marty Asleson, Connor Kvendru, Andrew Nelson

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

Mr. Sullivan called the Lino Lakes Environmental Board meeting to order at 6:31 p.m. on November 20, 2019

Mr. Asleson introduced Andy Nelson, the new City of Lino Lakes Environmental Coordinator to the Environmental Advisory Board. Andy shared his prior experience with the group.

Mr. Nelson gave a brief history of his education and background. Mr. Nelson graduated with a Conservation Biology degree from the University of MN. He spent time working with Anoka County as a Natural Resources Technician and most recently was the forester for the City of Mounds View.

**II. APROVAL OF AGENDA**

Mr. Sullivan added to the Agenda the following discussion items:

**ADD:**

Pledge of Allegation

Board members share information, special interest and goals

City Newsletter

Agenda approved as presented

**DRAFT MINUTES**

### **III. APPROVAL OF MINUTES:**

Ms. Andrzejewski made a MOTION to approve the September 25, 2019 Meeting Minutes. Ms. Kaufman supported motion. Motion carried 6 - 0.

### **IV. OPEN MIKE**

Mr. Sullivan declared Open Mike at 6:40 p.m.

Open Mike closed at 6:41p.m.

### **V. ACTION ITEMS – No Action Items**

### **VI. DISCUSSION ITEMS**

#### **A. Woolens Park Wetland Restoration and Banking Credits, Jason Husveth**

Mr. Asleson introduced Jason Husveth, owner of Critical Connections Ecological Services, and he discussed the wetland resortation and banking credits. Mr. Husveth shared a power point with the history of the wetland restoration project.

Mr. Husveth has worked with the Anoka Sandplain since the 1990s and has focused work to incentivize and justify ecological restoration of very important wetlands. He worked on the Lino Lakes Natural Resources Assessment and Comprehensive Plan and recommendations for the city to develop a wetland mitigation process to be followed by future developers. Mr. Husveth reviewed the abundance of wetlands across the city and the potential impacts and opportunity to identify high quality and unique habitat, such as Woolens Park. He shared a series of maps to show the amount of wetlands, the areas that are suitable for development, new rare plant detections, aerial photos, wetland credit area maps, and rare plant locations.

Mr. Sullivan asked whether the Nature's Refugee project had come back through the Environmental Board and noted the board's concerns about how the developer's would pump water. Mr. Asleson responded that the project had not come back to the board yet.

Mr. Husveth said the Wetland Banking Application for Woolan's Park was completed in 2010, which earned the city credits for restoring an existing wetland. This process also manages evasive plants and trees by using seeds from the original seed bank. The Wetland Banking Plan for Woolens was approved in 2014 and the implementation stage went through 2018. The park is still undergoing restoration and management.

Ms. Kaufenberg asked what type of herbicides are being used. Jason acknowledged the recent scrutiny about using Roundup.

Mr. Husveth shared several photos of area's transformation resulting in over 150 species coming up in the seed bank. Annual monitoring reports on Woolens Park are developed and available to share. He also shared some estimates of the credit costs and noted the city is intending to use the credits for their own projects.

Mr. Asleson mentioned how neat it is to see the new wildlife coming back into these restoration areas, such as birds, dragonflies, and insects.

### **B. Emerald Ash Borer Grant**

The City of Lino Lakes submitted an Emerald Ash Borer Preapplication to the DNR in October for \$100,000 to replace the 127 Ash trees in the Clearwater Creek development. The city removed 275 Ash trees out of Country Lakes Park last year, but there are many more to deal with. Last winter delayed the progression of the borer. West Shadow Lake Drive also has another long line of Ash trees. Most of the other parks have had the Ash trees removed.

### **C. Recycling Updates, Connor Kvendru**

Mr. Kvendru said they were working on recreating the design that board members chose for the t-shirts.

The Fall Recycling Saturdays have had a good turnout. Residential recycling numbers have been about the same as last year. He also noted that there has been no contamination seen recently with organics recycling. We do not need to put locks on the compost bins at this point. The Lino Park organics site will be open as soon as the bins are there. Ms. Kaufenberg recommended that we send a flyer to people in that area to raise awareness about the opportunity for organics recycling and how easy enrollment is by signing up online.

The City of Lino Lakes will be hosting a Fix-It Clinic on February 1<sup>st</sup> at the senior center. Anyone wanting to volunteer should let Mr. Kvendru know.

Mr. Sullivan talked about the city newsletter that is printed three times per year – Spring/Summer, Fall, and Winter. One of our goals as a board is to educate the public and the most recent issue included several of the ideas we discussed at the last meeting. Mr. Sullivan will keep track of which topics are used and we will review our list before the Spring/Summer newsletter deadline – which is February 10<sup>th</sup> – to make recommendations about topics we would like to see in that issue.

### **D. Other**

Mr. Sullivan asked city staff to assure the Stern Addition planting plan is shared with the board.

Mr. Sullivan reminded board members to send in a brief summary about their background and areas of expertise and interest. The summaries from Mr. Flower, Ms. Holmes and Mr. Schwartz are still missing. Mr. Schwartz submitted his immediately following the meeting.

The next board meeting is scheduled for December 18<sup>th</sup>. Mr. Sullivan asked board members to share any potential agenda items with him by December 9<sup>th</sup>.

## **VII. ADJOURNMENT**

Ms. Andrzejewski made a MOTION to adjourn the meeting at 8:08 p.m. Ms. Kaufenberg supported the motion. Motion carried 6 - 0.

Respectfully submitted,

Shawn Holmes  
Environmental Board Member

## **ENVIRONMENTAL BOARD AGENDA ITEM 6A**

**STAFF ORIGINATOR:** Andy Nelson, Environmental Coordinator

**MEETING DATE:** January 29<sup>th</sup>, 2020

**REQUEST:** Preliminary Plat for Nadeau Acres

**APPLICANT:** BL Holdings, LLC

**OWNER:** Pierre Nadeau and William Nadeau  
6677 and 6651 20<sup>th</sup> Avenue  
Lino Lakes, MN 55038

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### **PROPOSED DEVELOPMENT**

The applicant, BL Holdings, LLC, submitted a rezoning and preliminary plat land use application for Nadeau Acres. The proposed residential development is a 69 single family lot subdivision located north of CSAH 34 (Birch Street) and west of CSAH 54 (20<sup>th</sup> Avenue) across from NorthPointe. It contains two (2) parcels totaling approximately 33 gross acres. The applicant is proposing an R-1, Single Family Residential development on standard 80 foot wide lots.

This staff report is based on a review of the following documents:

- 1/10/2020: Nadeau Acres Civil Plan Set, prepared by Carlson McCain
- 12/06/19 Stormwater Management Plan, prepared by Carlson McCain
- 12/06/19 Geotechnical Exploration Report, prepared by Haugo Geotechnical Services
- 12/23/19 Wetland Permit Application, prepared by Kjolhaug Environmental Services Company Inc.
- 12/12/19 Rare Plant Report, prepared by Midwest Natural Resources

### **SITE CHARACTERISTICS**

#### **General site characteristics**

The site is currently composed of two adjacent parcels, each with a single family lot surrounded by mowed lawn, planted trees, and farmland/hayfields. In the northeast corner there is a low-lying woodlot with boxelder, non-native honeysuckle, and two

wetlands that will be impacted by the development. Two large windbreaks of planted conifers are in the central-east. An overhead electric utility corridor runs from southwest to northeast.

The site is bounded by single-family homes on the north, east, and south, and by agricultural land to the west.

### **Soils**

Per the Geotechnical Exploration Report, soils on the site are predominantly sandy lean clay and clayey sand beneath 0.5-1.0 foot of topsoil. Groundwater was between 4-19 feet below the surface at the boring locations, but it was noted that time may not have been sufficient for water to percolate through clay to give an accurate depth to water table.

SSURGO (Soil Survey Geographic Database from Natural Resource Conservation Service) soils data provide the following hydrologic soil groups: Nessel fine sandy loam, Webster loam, Blomford loamy fine sand, Braham loamy fine sand, Cathro muck, and Rifle mucky peat. The soils are approximately 53% non-Hydric and 47% Hydric, with the hydrologic types ranging from moderately well drained to poorly drained, and are generally associated with a high water table.

### **Land Cover**

Pre-settlement land cover (Marschner) consisted of oak openings and barrens, and aspen-oak land.

Current land cover (MLCCS Minnesota Land Cover Classification System) is: row cropland on hydric soils; upland soils with planted, maintained, or cultivated coniferous trees; long grasses and mixed trees with 11-25% impervious cover; long grasses with sparse tree cover on upland soils; altered/non-native deciduous forest; and planted mixed coniferous/deciduous trees with 25-50% impervious cover.

The majority of the site is hayfield composed of alfalfa, dandelion, timothy, Canada thistle, clover, curly dock, field sowthistle, ragweed, and reed canary grass.

### **Rare, Unique or Significant Resources**

Per the December 12, 2019 Rare Plant Report, there were no state-listed rare species observed on the site. Potential for rare species is low due to site condition. Further plant surveys were not recommended.

### **Stormwater Management, Erosion and Sediment Control**

Stormwater management plan has been submitted and is being reviewed by the City Engineer.

The following general review is adapted from the December 6, 2019 Stormwater Management Plan.

The stormwater on the site currently flows to three locations. The majority drains to a private ditch/wetland to the north of the site, the western part of the site drains to a private ditch to the northwest, and a small southern portion of the site drains to an existing culvert that runs along Birch Street.

The proposed conditions will include three new ponds. Pond 100 in the northwest will collect water from the majority of the site and discharge to the private ditch to the west. Pond 200 will collect water from the south portion of the site and direct it to Pond 100. Pond 400 in the northeast will discharge to the existing ditch to the north.

Infiltration was deemed infeasible due to high water table in the north and clay soils in the south.

### **Stormwater Pollution Prevention Plan (SWPPP)**

SWPPP has been submitted and will be reviewed with final construction plans.

### **Flood Plain**

Site does not fall within the flood management zone.

### **Wetlands**

Per the December 23, 2019 Wetland Permit Application, there are two wetlands on the site that will be impacted by the development.

Wetland 1 is 0.05 acre of wet meadow. Species present include reed canary grass, sedge, and Kentucky bluegrass. This wetland is proposed to be filled.

Wetland 2 is 1.32 acres of partially-drained wet meadow and scrub-shrub wetland. Species present include reed canary grass, red osier dogwood, and boxelder. Southeast and southwest portions of this wetland totaling approximately 0.65 acre is proposed to be filled.

The site is not within a Wetland Management Corridor. The wetlands have low vegetative diversity and are severely degraded in terms of Rice Creek Watershed District degradation types. These classifications call for a 1:1 replacement ratio.

The development will involve permanent impact to a total of 0.7076 acre (30,826 sq.ft.) of wetland. These wetland impacts will be mitigated through the purchase of wetland bank credits coming from Wollan's Park.



## **Alternative Urban Areawide Review (AUA) Considerations**

Site does not fall within the Alternative Urban Area Review boundary.

### **Drinking Water Protection**

The site is within the Drinking Water Supply Management Area (DWSMA) and is moderately vulnerable. No stormwater infiltration is proposed on the site. New homes will be connected to City water. Existing private wells should be sealed and abandoned per Department of Health requirements.

### **Landscape Plan**

#### *Tree Preservation and Protection*

Of the approximately 750 trees on site, 497 are slated for removal and 253 are to be saved. The majority of the removals are row-planted conifers in the central-eastern part of the site. There are also scattered removals around the existing home in the north to accommodate new lots, and other removals to accommodate a trail in the south leading to Birch Street. Trees that will be preserved are primarily on the east perimeter of the site and in the north within and adjacent to Wetland 2.

Trees to be protected should have tree protection zones (TPZs) that are 1 ft. from the trunk per inch diameter. If a tree has a fifteen inch DBH (diameter at breast height, 4.5 feet), it should have a tree protection zone that extends fifteen feet from the trunk, making the TPZ a circle with 15 foot radius with the tree at the center. A large group of trees can share a tree protection zone (fence that surrounds an entire group of trees), provided that the fence is at least one foot away per inch DBH on all trees included.

The Details plate of the plan set reflects the dimensions required above. The Landscape Specifications on the Preliminary Landscape Plan call for TPZ only extending to the dripline. The Details plate should be followed, as dripline protection will not be good enough to ensure root protection. See staff comments.

It is imperative that the Tree Protection Zone be established and fence erected PRIOR to any construction activities taking place on the site. Root compaction will occur if this is not done, and trees will die, sometimes several years after construction is completed and it will be difficult to determine responsibility.

#### *Open Areas Landscape Standards*

Open area landscape standards call for 1 large tree and 3 large shrubs per 2000 sq. ft. These standards do not apply to single family residential lots, just the open areas in the development. The purpose of these standards is to provide general site beautification and high aesthetic quality with a mix of plants in open areas.

Existing trees used to satisfy Open Areas Landscape standards must be applicable by placement. Tree and shrub requirements are calculated per open area, not for the entire development as a whole. Outlot A meets requirements. Outlots B, E, and F will require trees and shrubs as calculated in the Open Areas Landscape Standards notes located on the Preliminary Landscape Plan. Outlot C will not require trees, due to this being a future right-of way. Outlot D will not require trees or shrubs because lots are going to be expanded in this area to eliminate this outlot so only the overhead electric utility remains, and these corridors must remain free of trees.

See staff comments at the end of this document.

### Buffer and Screen Standards

Buffer and screen standards apply to the east side of the development, specifically block 5, lots 7-10 that have a rear frontage on 20<sup>th</sup> Avenue South. Approximately 475 linear feet of frontage will be screened by shrubs, new trees, and existing trees to provide a continuous planting screen year-round.

The Preliminary Landscape Plan calls for trees and shrubs to be planted on two separate berms. These berms should be combined to provide the required 6 foot high berm behind lots 7, 8, and 9 where there aren't currently existing trees. See staff comments.

### Boulevard Trees

Boulevard tree standards call for 1 tree per frontage. 60 sites require one tree each, and 9 sites require 2 trees each, for a total of 78 required boulevard trees. The Preliminary Landscape Plan provides 80 boulevard trees.

Staff will work with developer to increase within-block diversity to minimize future impacts from pests and pathogens. Planting numerous members of a single species in close proximity will increase the susceptibility of these trees to pests and pathogens, increase the likelihood of disease transmission, and potentially increase pest populations, ultimately leading to another EAB, Dutch elm disease scenario.

City will plant boulevard trees, selecting both species and placement.

### Canopy Cover

Canopy cover standards do not apply to single family residential development.

### Foundation Landscaping

Foundation landscaping standards do not apply to single family residential development.

## **Seed Mix Types**

- MN DOT 25-131 Low maintenance turf grass. Salt, shade, and drought tolerant turf grass that requires less frequent mowing and requires less fertilization than conventional turf grass. Listed as being planted on all lots, which is fine for temporary erosion control, but will need sod for final development. Use this mix on berms, Outlot C, and Outlot F for permanent cover. The idea is to have a low-maintenance cover type that stays relatively short in high visibility areas.
- MN DOT 33-261 Stormwater mix for pond edges up to 100 year High Water Level. Mix of grasses, sedges, rushes, and forbs.
- Will recommend 35-241 Mesic Prairie General, for the remainder of Outlots A, B, and E that are higher than 100 year high water levels.
- Turf sod, bluegrass. Will be placed on right-of-ways on boulevards. Eventually placed on individual lots for permanent cover.

## **Lighting**

Not applicable.

## **Recycling**

Not applicable.

## **RECOMMENDATION**

Staff recommends approval of the Nadeau Acres subdivision subject to the following comments:

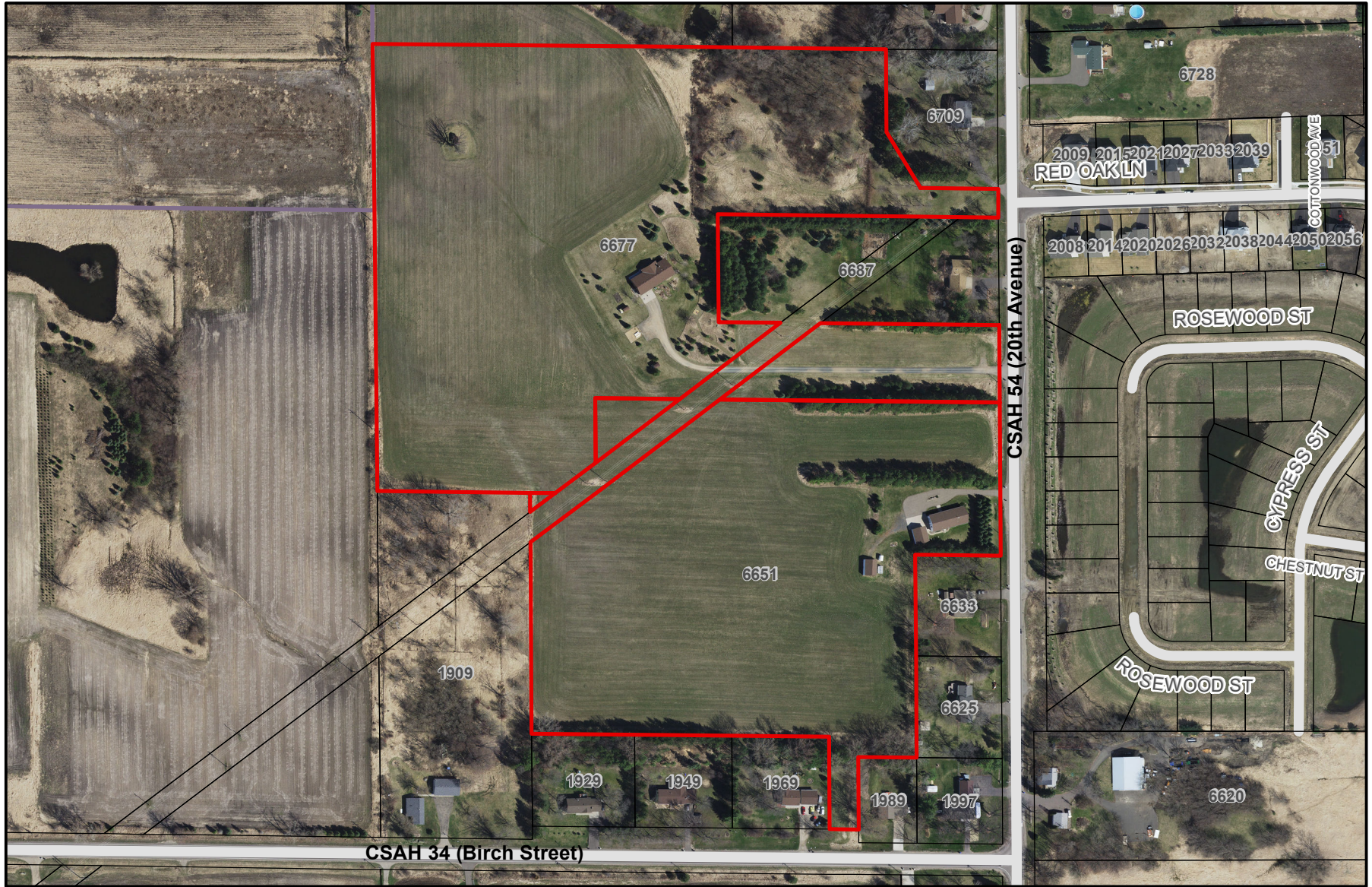
1. Open Space Landscape standard trees must be calculated per outlot/segment of open space, and not calculated as a total for the entire development. In other words, existing trees in Outlot A will not satisfy tree requirements for Outlot B, etc. Open space trees are still required for Outlots B, E, and F.
2. Outlot C is a future right-of-way and will not require trees and shrubs, but area must be seeded.
3. Outlot D will not require trees and shrubs because lots in this area are going to be expanded to eliminate this outlot.
4. Staff will work with developer to increase within-block diversity of boulevard trees. Ultimately, City staff will select species and placement for boulevard trees. This will involve revisions to placement that ensure trees are in the right-of-way and comply with Clear Vision Area for Local Residential Roads, which addresses visibility at intersections.
5. Buffer and screen standards call for a 6 foot high continuous screen on Block 5, Lots 7-10. Lots 7-9 should have a continuous 6 foot high berm with the trees and shrubs planted on top, rather than the two separate berms now called for on the

- plans. The existing trees on Block 5, Lot 10 should be left in place as proposed on the plan.
6. Tree protection zones should be 1 foot radius away from the trunk per inch DBH (diameter at breast height), as described in the Details Plate, and Landscape Specifications on Preliminary Landscape Plan should be changed to match Details Plate. All Tree Protection Zones should be in place before any other construction activity begins on the site.
  7. Staff recommends 35-241 Mesic Prairie General to use on the portion of Outlots A, B, and E that are above the 100 year High Water Level.

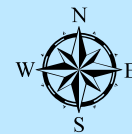
## **ATTACHMENTS**

1. Site Location Map
2. Resource Inventory
3. Preliminary Landscape Plan
4. Existing Conditions-Wetlands
5. Wetland 1 and 2
6. Tree Preservation Plan

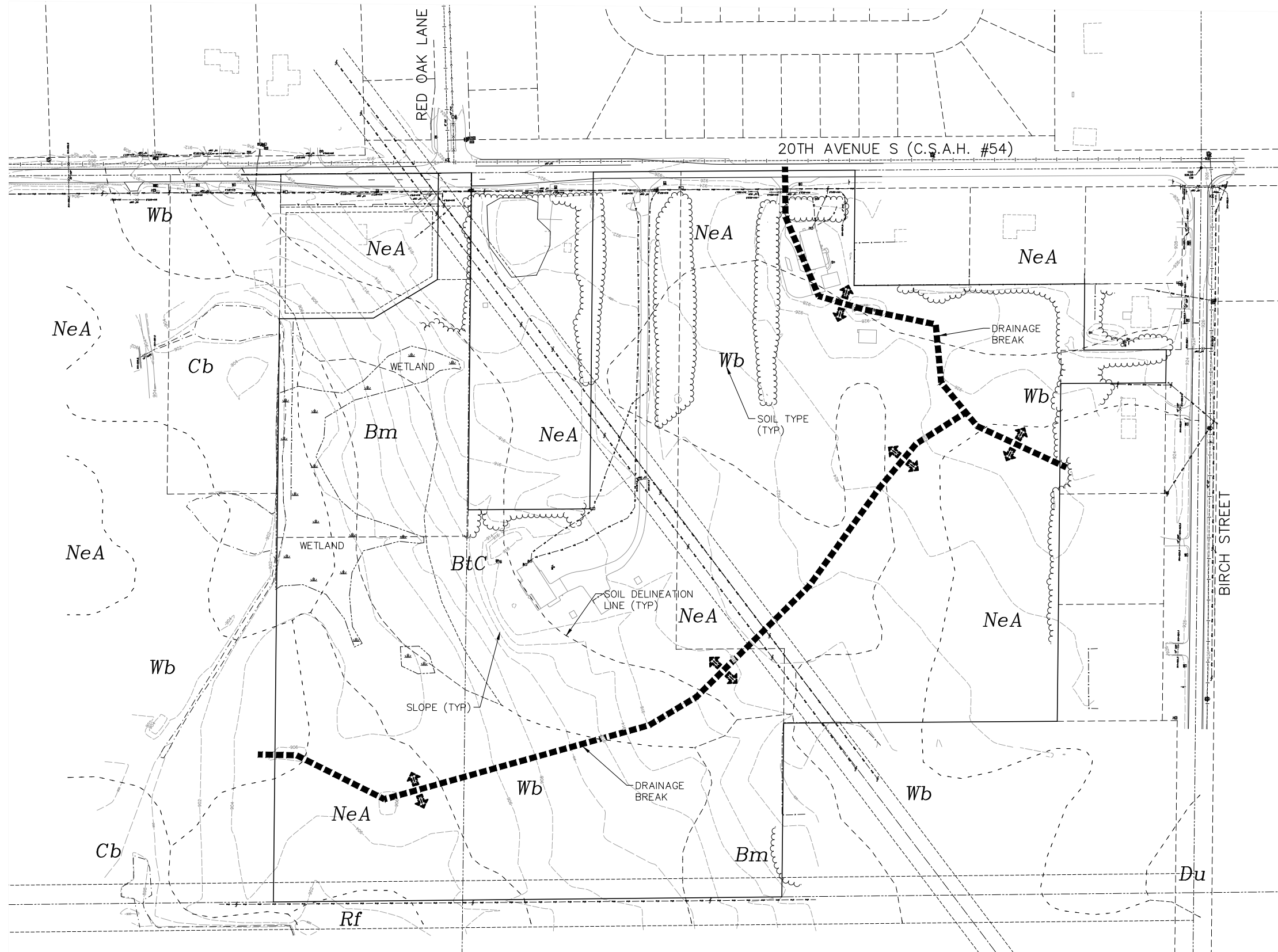




# Aerial Map Nadeau Acres







**LEGEND**

SITE BOUNDARY LINE	---
EXISTING PROPERTY LINE	---
SECTION LINE	---
1/4 SECTION LINE	---
1/16 SECTION LINE	---
2' CONTOUR	---
10' CONTOUR	---
WETLAND	---
WATER	---
TREE LINE	---
FENCE LINE	---
OVERHEAD ELECTRIC	---
UNDERGROUND TELEPHONE	---
MANHOLE	○
HYDRANT	△
GATE VALVE	▽
FLARED END SECTION	---
POWER POLE	○
TELEPHONE BOX	□
TELEVISION BOX	□
MAIL BOX	□
SIGN	□

**SITE DATA**

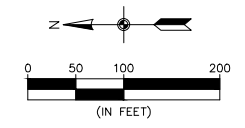
TOTAL SITE AREA	33.03 AC.
EXISTING ZONING	RURAL (R)

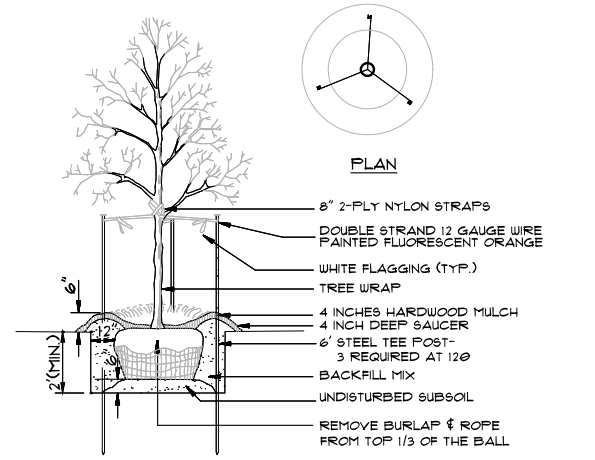
**NOTES**

- SOIL DATA SHOWN IS BASED ON NATIONAL RESOURCE CONSERVATION SERVICE WEB SOIL SURVEY.

**SOIL TYPES**

Bm	Blomford loamy fine sand
BtC	Braham loamy fine sand, 6 to 18 percent slopes
Cb	Cathro muck
Du	Dundas loam
NeA	Nessel fine sandy loam, 1 to 4 percent slopes
Rf	Rifle mucky peat
Wb	Webster loam





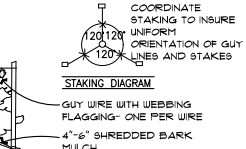
NOTE: SEE PLANTING NOTES FOR THE TYPE OF MULCH MATERIAL TO USE.

**A DECIDUOUS TREE PLANTING DETAIL**  
NOT TO SCALE

1. SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING.
2. TRIM OUT DEAD WOOD AND WEAK AND/OR DEFORMED BRANCHES. DO NOT CUT A LEADER. DO NOT PAINT CUTS.
3. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED BACKFILL SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2\"/>

NOTE: GUY ASSEMBLY OPTIONAL BUT CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR MAINTAINING TREE IN A PLUMB POSITION FOR THE DURATION OF THE GUARANTEE PERIOD.

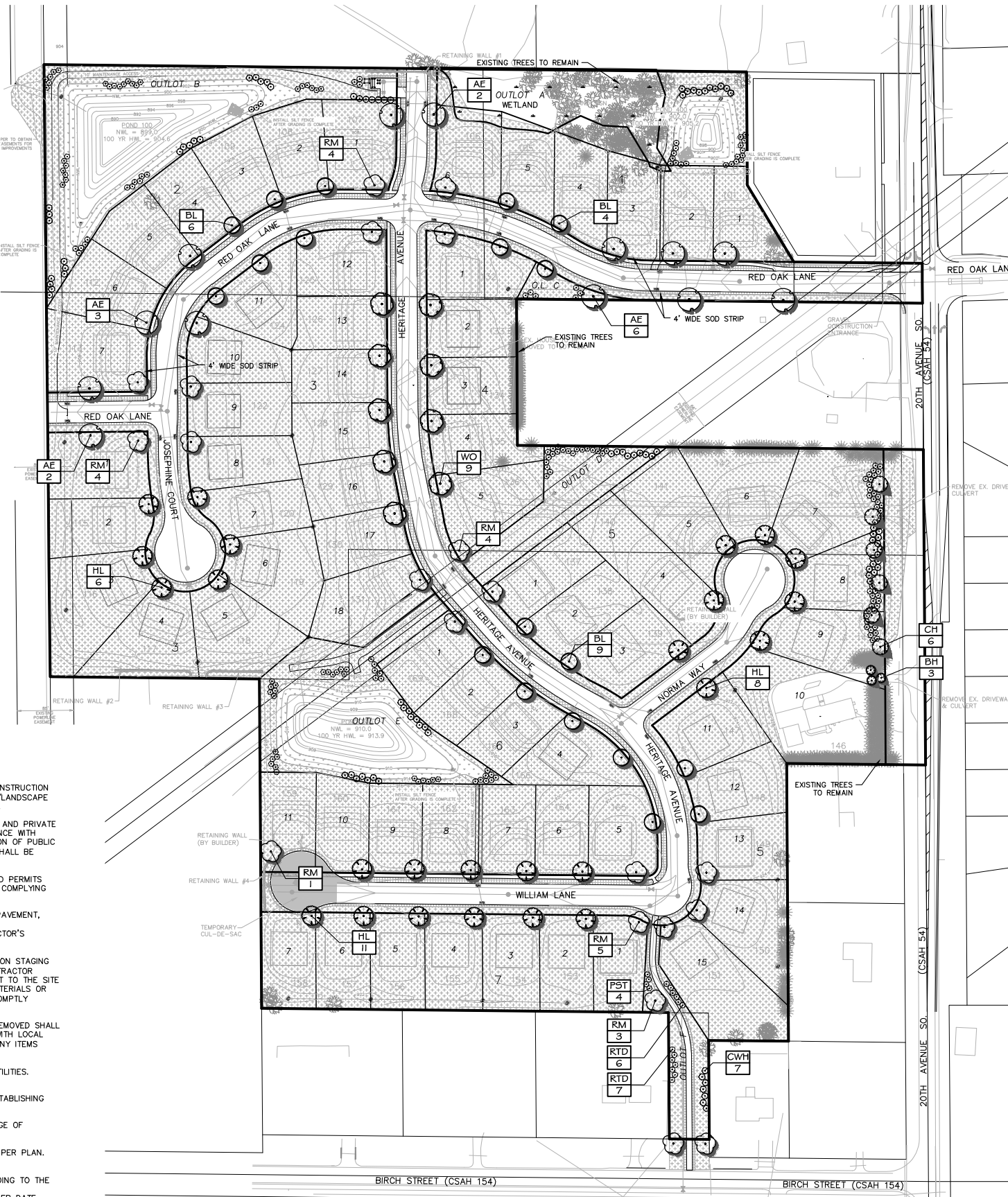
NOTE: GUY ASSEMBLY - 16\"/>



**B CONIFEROUS TREE PLANTING DETAIL**  
NOT TO SCALE

**LANDSCAPE PLAN NOTES**

1. EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START. ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/LANDSCAPE ARCHITECT FOR CLARIFICATION PRIOR TO BIDDING OR APPROVING ANY ADDITIONAL WORK REQUIRED.
2. UTILITY LOCATES. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL PUBLIC AND PRIVATE UTILITIES, INCLUDING IRRIGATION LINES, AT LEAST 48 HOURS BEFORE EXCAVATING OR IN ACCORDANCE WITH STATE LAW. IN MINNESOTA, CALL GOPHER STATE ONE-CALL AT 851-454-0002 FOR FIELD LOCATION OF PUBLIC UNDERGROUND UTILITY LINES. ALL LOCATES AND ITEMS NOTED AS 'FIELD VERIFY' ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR AT THEIR EXPENSE.
3. PERMITS. CONTRACTOR SHALL VERIFY WITH THE OWNER/LANDSCAPE ARCHITECT THAT THE REQUIRED PERMITS HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION START. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE CODES, REGULATIONS, AND PERMITS GOVERNING THE WORK.
4. EXISTING ITEMS TO REMAIN. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING PAVEMENT, STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC. THAT ARE TO REMAIN FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE (AT CONTRACTOR'S EXPENSE) TO EXISTING ITEMS TO REMAIN.
5. CONSTRUCTION STAGING AND ACCESS. CONTRACTOR SHALL VERIFY THE LOCATION FOR CONSTRUCTION STAGING AND SITE ACCESS WITH THE OWNER/LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION START. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PEDESTRIAN AND VEHICLE ACCESS WITHIN AND ADJACENT TO THE SITE THROUGHOUT THE CONSTRUCTION PERIOD UNLESS OTHERWISE NOTED. LONG-TERM STORAGE OF MATERIALS OR SUPPLIES ON-SITE WILL NOT BE PERMITTED. ALL WASTE AND/OR UNUSED MATERIAL SHALL BE PROMPTLY REMOVED FROM THE SITE.
6. SITE REMOVALS. REFER TO CIVIL PLANS FOR GENERAL SITE REMOVALS. ALL ITEMS NOTED TO BE REMOVED SHALL BE COMPLETED BY THE CONTRACTOR AND IMMEDIATELY DISPOSED OF OFF-SITE, IN ACCORDANCE WITH LOCAL REGULATIONS, UNLESS OTHERWISE NOTED. COORDINATE WITH OWNER/LANDSCAPE ARCHITECT FOR ANY ITEMS NOTED AS 'REMOVED BY OTHERS' OR 'REMOVE AND SALVAGE.'
7. UTILITY COORDINATION. REFER TO CIVIL PLAN SHEETS FOR INFORMATION RELATED TO PROPOSED UTILITIES. COORDINATE WITH ELECTRICAL CONTRACTORS FOR SITE ELECTRICAL WORK AND SITE LIGHTING.
8. CONSTRUCTION STAKING. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING CONTROL POINTS AND ALL CONSTRUCTION FIELD STAKING DURING THE COURSE OF THE PROJECT.
9. DIMENSIONS. DIMENSIONS TAKE PRECEDENCE OVER SCALE. DIMENSIONS ARE TO FACE OF CURB, EDGE OF PAVEMENT/WALKWAY, OR OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
10. PLAN QUANTITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL MATERIAL QUANTITIES PER PLAN. MATERIAL SCHEDULES ARE PROVIDED SOLELY FOR CONTRACTOR'S CONVENIENCE.
11. REFERENCE SPECIFICATIONS. THE FOLLOWING SPECIFICATIONS SHALL GOVERN THIS PROJECT ACCORDING TO THE FOLLOWING ORDER:
  1. ADDENDA, WITH THOSE OF A LATER DATE HAVING PRECEDENCE OVER THOSE OF AN EARLIER DATE.
  2. LANDSCAPE SPECIFICATIONS.
  3. PLAN DRAWINGS.
  4. PLANT MATERIAL SCHEDULES.
  5. CITY STANDARD SPECIFICATIONS AND DETAILS.
  6. MnDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION, LATEST EDITION.



**1 OVERALL LANDSCAPE PLAN**  
L1

TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	RM	21	Acer rubrum 'Northwood'	Northwood Red Maple	2.5\"/>

CONIFEROUS TREES	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	BH	3	Picea glauca densata	Black Hills Spruce	6' HT.

SHRUBS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	RTD	87	Cornus sericea 'Cardinal'	Cardinal Dogwood	#5 Co

GROUND COVERS	CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
	SOD	60,028 sf	Turf Sod Bluegrass	Kentucky Bluegrass	sod

**CITY OF LINO LAKES LANDSCAPE REQUIREMENTS**

1. BOULEVARD TREES (CH. 302.03(2)(F)) - ONE (1) TREE PER LOT, LOCATED AT PROPERTY LINE OR FRONT YARD OF ADJOINING LOT.
 

REQUIRED TREES =	69 TREES (69 LOTS X 1 TREE)
PROVIDED TREES =	80 TREES

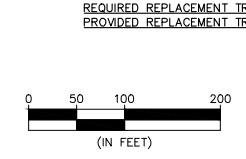
NOTE: BOULEVARD TREES TO BE INSTALLED BY CITY.
2. OPEN AREAS LANDSCAPE STANDARDS (CH. 1007.043(17)(E)) - ONE (1) LARGE TREE AND (3) LARGE SHRUBS PER 2,000 SF OPEN SPACE.
 

OUTLOT A - 1.13 ACRES (49,225 SF)-WETLANDS (25,660 SF)-BELOW NWL (4,780 SF)= 18,785 SF
REQUIRED TREES = 24 TREES
REQUIRED SHRUBS = 30 SHRUBS
OUTLOT B - 1.61 ACRES (70,132 SF)-BELOW NWL (23,025 SF)= 47,107 SF
REQUIRED TREES = 24 TREES
REQUIRED SHRUBS = 72 SHRUBS
OUTLOT C - 0.9 ACRES (3,920 SF)
REQUIRED TREES = 2 TREES
REQUIRED SHRUBS = 6 SHRUBS
OUTLOT D - 0.45 ACRES (19,600 SF)
REQUIRED TREES = 10 TREES
REQUIRED SHRUBS = 30 SHRUBS
OUTLOT E - 1.22 ACRES (53,145 SF)-BELOW NWL (18,675 SF)= 34,470 SF
REQUIRED TREES = 18 TREES
REQUIRED SHRUBS = 54 SHRUBS
OUTLOT F - 0.35 ACRES (15,250 SF)
REQUIRED TREES = 8 TREES
REQUIRED SHRUBS = 24 SHRUBS
TOTAL OPEN AREAS LANDSCAPE
REQUIRED TREES = 72 TREES
PROVIDED TREES = 10 TREES
REQUIRED SHRUBS = ±339 SHRUBS (INCLUDES 80 BOULEVARD TREES AND ±263 EXISTING)
PROVIDED SHRUBS = 216 SHRUBS
PROVIDED SHRUBS = 216 SHRUBS
3. BUFFER AND SCREEN STANDARDS (CH. 1007.043(17)(F)) - BETWEEN RESIDENTIAL USES AND ARTERIAL OR COLLECTOR ROADS. APPLIES TO BLOCK 5, LOTS 7-10 WITH 475 LF REAR FRONTAGE ON 20TH AVE S.
 

REQUIRED SCREEN WIDTH (R-1) =	15 FEET
REQUIRED SCREEN HEIGHT =	6 FEET
REQUIRED SCREEN MATERIALS =	YEAR-ROUND CONTINUOUS PLANTING SCREEN
REQUIRED TREES (50 FT O.C.) =	10 TREES
PROVIDED TREES =	±63 TREES (INCLUDES ±54 EXISTING TREES)
PROVIDED SHRUBS =	58 LARGE SHRUBS
4. TREE PRESERVATION AND MITIGATION STANDARDS (CH. 1007.043(17)(J)) - REFER TO TREE PRESERVATION PLAN.
 

REQUIRED REPLACEMENT TREES =	29 TREES
PROVIDED REPLACEMENT TREES =	±352 TREES (INCLUDES ±263 EXISTING)

BENCHMARKS	
1. Minnesota Department of Transportation GSID Station #92399 (Name: 0282 S) ELEVATION: 931.46 ft.	
2. Minnesota Department of Transportation GSID Station #92394 (Name: 0282 N) ELEVATION: 911.43 ft.	



**Carlson McCain** environmental engineering surveying  
3890 Pheasant Ridge Drive NE, Suite 100 Blaine, MN 55449  
Phone: (763) 489-7900 Fax: (763) 489-7959 www.carlsonmccain.com

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the State of Minnesota.  
Print Name: Ryan J. Ruttger, RLA  
Signature: [Signature]  
Date: 12/06/19 License #: 56346

Drawn: RJR  
Designed: RJR  
Date: 12/06/19

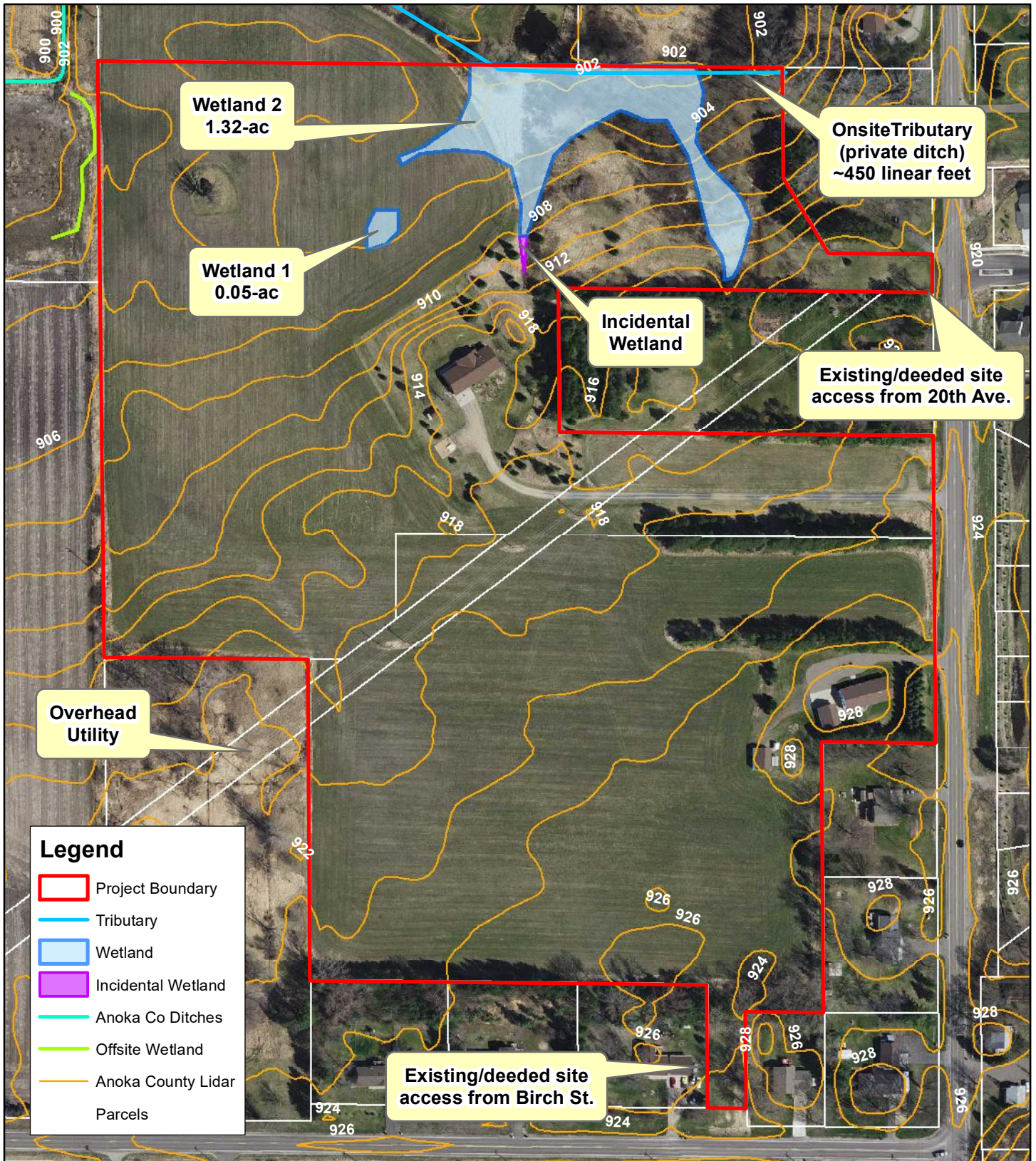
Revisions:  
1. 01/14/20 Revised Layout.

**BL HOLDINGS, LLC**  
7517 162nd Avenue NE  
Columbus, MN 55025

**NADEAU ACRES**  
Lino Lakes, Minnesota

**PRELIMINARY LANDSCAPE PLAN**





**Figure 2 - Existing Conditions (2016 MnGEO Photo)**



N

0      250



Feet

**Nadeau Acres (KES 2019-195)**  
**Lino Lakes, Minnesota**

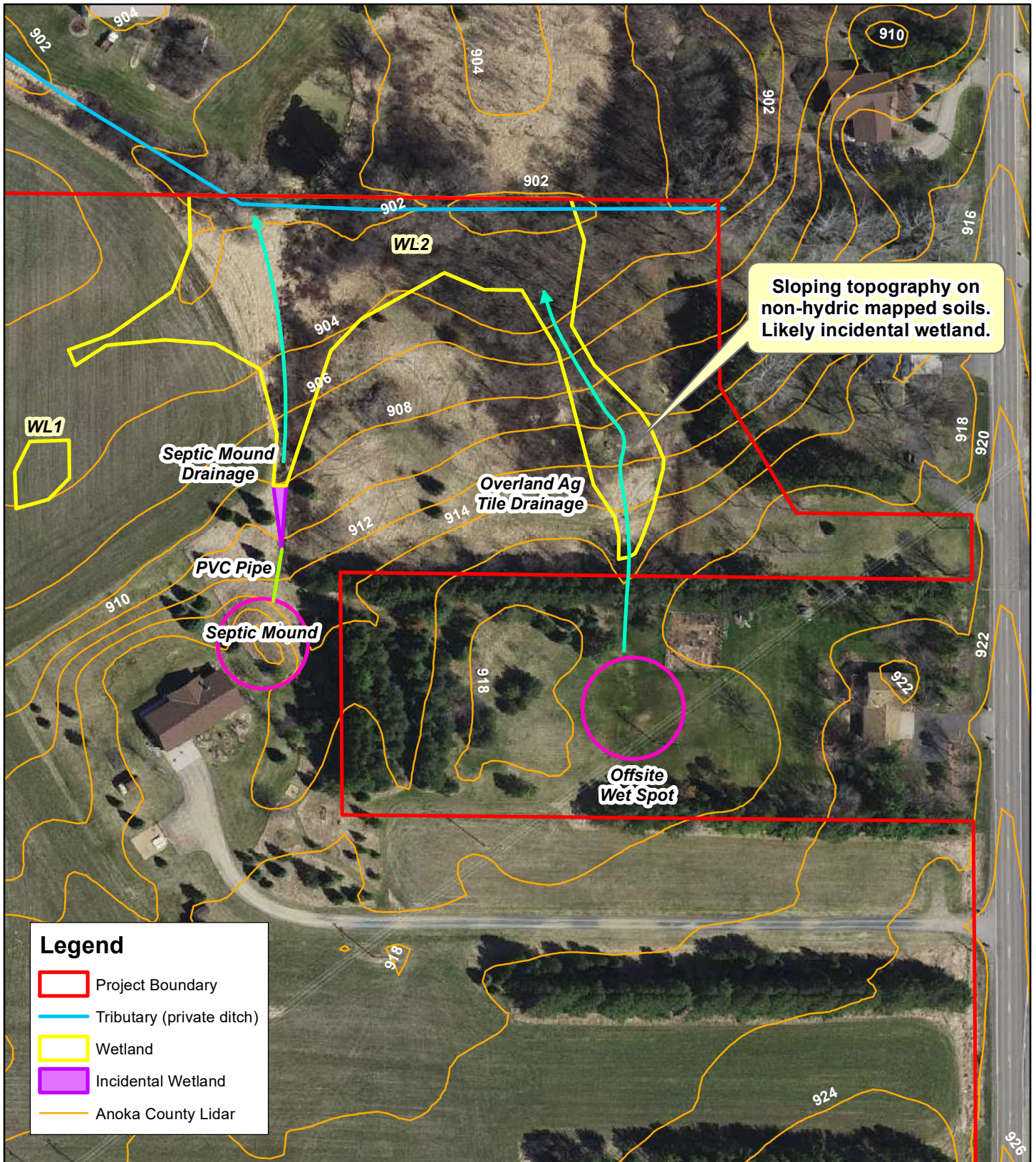
Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.




**KJOLHAUG** ENVIRONMENTAL SERVICES COMPANY

Source: MNGEO Spatial Commons






**Figure 3 - Wetlands 1 and 2 Supplemental Information**




**KJOLHAUG** ENVIRONMENTAL SERVICES COMPANY  
Source: MNGEO Spatial Commons

N



0 250  
Feet



**Nadeau Acres (KES 2019-195)**  
**Lino Lakes, Minnesota**

Note: Boundaries indicated on this figure are approximate and do not constitute an official survey product.





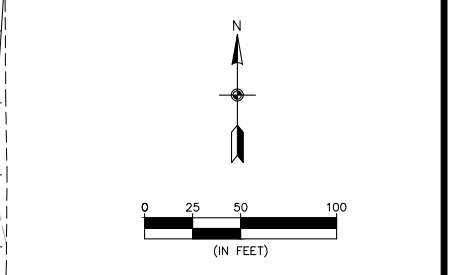
**LEGEND**

	EXISTING	PROPOSED
PROPERTY LINE	---	---
EASEMENT LINE	---	---
CURB LINE	---	---
BITUMINOUS	---	---
CONCRETE	---	---
SANITARY SEWER	---	---
STORM SEWER	---	---
WATER MAIN	---	---
OVERHEAD UTILITY	---	---
STORM CATCH BASIN	---	---
STORM MANHOLE	---	---
OUTLET CONTROL STRUCTURE	---	---
MANHOLE	---	---
HYDRANT	---	---
GATE VALVE	---	---
TELEVISION BOX	---	---
TELEPHONE BOX	---	---
UTILITY POLE	---	---
RETAINING WALL	---	---
FENCE	---	---
10' CONTOUR	---	---
2' CONTOUR	---	---
FEMA FLOOD PLAIN	---	---
WETLAND LINE	---	---
SPOT ELEVATION	---	---
EMERGENCY OVERFLOW	---	---
SILT FENCE	---	---
TREE FENCE	---	---
GRADING LIMITS	---	---
TREELINE	---	---
SOIL BORING	---	---

**KEY**

○	DENOTES TREE TO BE SAVED
⊗	DENOTES TREE TO BE REMOVED

**NOTE:**  
REFER TO TREE INVENTORY REPORT FOR TREE IDENTIFICATION AND REMOVAL/REPLACEMENT INFORMATION.



**BENCHMARKS**

- Minnesota Department of Transportation  
GSID Station #92399 (Name: 0282 S)  
ELEVATION: 931.46 ft.
- Minnesota Department of Transportation  
GSID Station #92394 (Name: 0282 N)  
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Print Name: Brian J. Krystofak, P.E.  
Signature: *Brian J. Krystofak*  
Date: 12/6/19 License #: 25063

Drawn: JJO  
Designed: BKJ  
Date: 12/6/19

Revisions:  
1. 1/10/20 Per City Comments

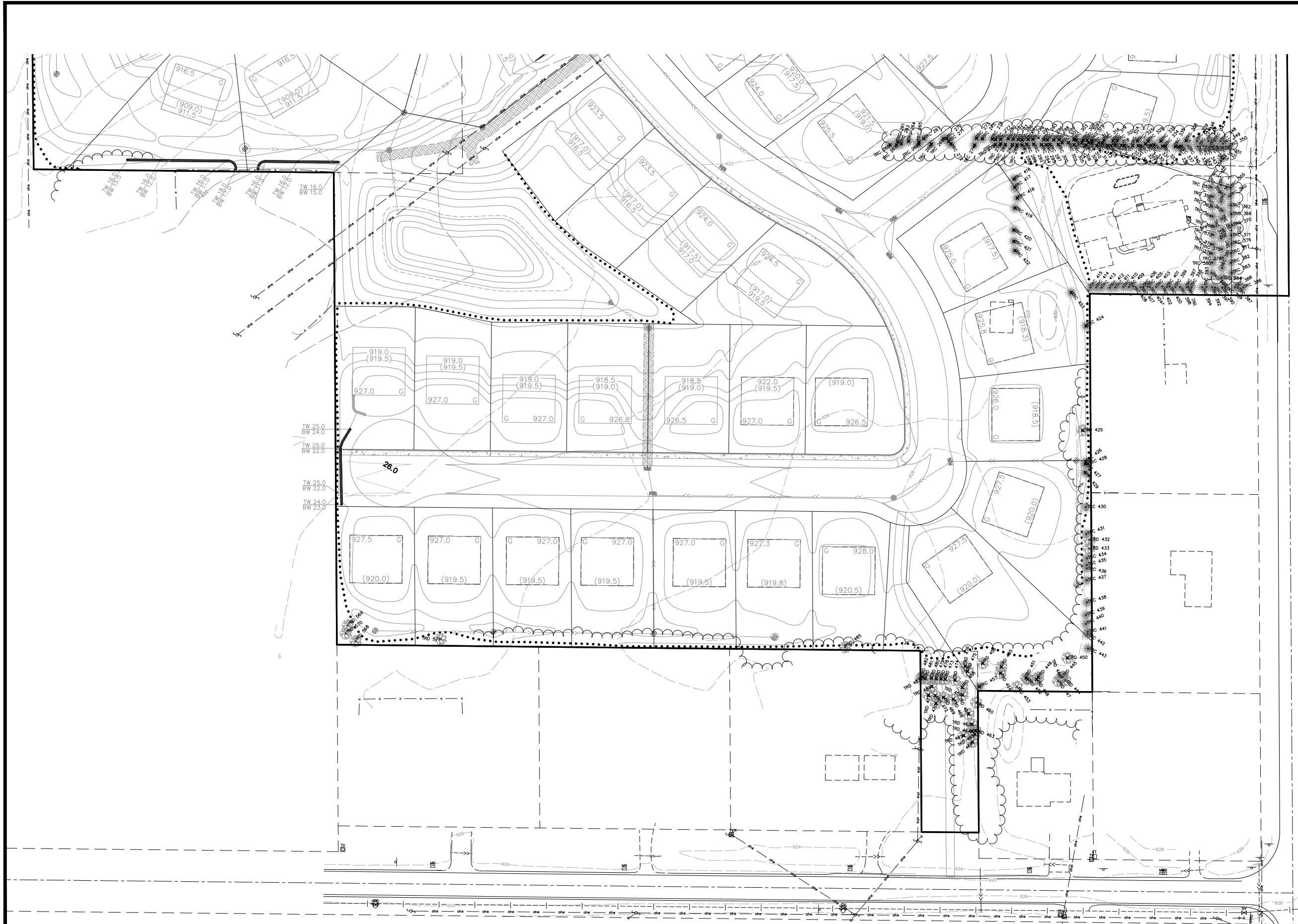
**BL HOLDINGS, LLC**  
7517 162nd Avenue NE  
Columbus, MN 55025

**NADEAU ACRES**  
Lino Lakes, Minnesota

**TREE PRESERVATION PLAN**

T2 of 4

Source: 01/10/20 F:\jpb\9421 - 8440\8440 - nadeau parcel\cad\c3d\engineering\trees\8440\_tree.dwg



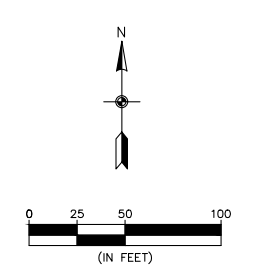
**LEGEND**

	EXISTING	PROPOSED
PROPERTY LINE	---	---
EASEMENT LINE	---	---
CURB LINE	---	---
BITUMINOUS	---	---
CONCRETE	---	---
SANITARY SEWER	---	---
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SILT FENCE	---	---
TREE FENCE	---	---
GRADING LIMITS	---	---
TREELINE	---	---
SOIL BORING	---	---

**KEY**

DENOTES TREE TO BE SAVED	○
DENOTES TREE TO BE REMOVED	⊗

**NOTE:**  
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**BENCHMARKS**

- Minnesota Department of Transportation  
GSD Station #92399 (Name: 0282 S)  
ELEVATION: 931.46 ft.
- Minnesota Department of Transportation  
GSD Station #92394 (Name: 0282 N)  
ELEVATION: 911.43 ft.

**ENVIRONMENTAL BOARD  
AGENDA ITEM 7A**

**STAFF ORIGINATOR:** Andy Nelson  
**MEETING DATE:** January 29<sup>th</sup>, 2020  
**REQUEST:** Discussion Only.  
**TOPIC:** Emerald Ash Borer Update

**BACKGROUND:**

Lino Lakes has 338 ash trees remaining on boulevards. We applied for a grant from the MN DNR for \$100,000 that would have been used to remove and replace 127 ash trees in the Clearwater Creek development.

Unfortunately we did not receive funding for our grant proposal.

We will continue to focus on removing and replacing ash trees to the extent that budget allows. This will involve removals and replacements in Clearwater Creek this winter and spring.

We will explore options for bulk rate discounts on ash tree injections that we can refer citizens to for treatment of privately owned trees, pending board approval.

**ENVIRONMENTAL DIRECTION:**

None Required. Discussion only.