City Hall: 218-692-2688
Planning & Zoning: 218-692-2689
Fax: 218-692-2687

13888 Daggett Bay Rd
Crosslake, Minnesota 56442
www.cityofcrosslake.org

CITY OF CROSSLAKE

PLANNING COMMISSION/BOARD OF ADJUSTMENT
August 25, 2023
9:00 A.M.

Crosslake City Hall
13888 Daggett Bay Rd, Crosslake MN 56442
(218) 692-2689

PUBLIC HEARING NOTICE

Applicant: Dennis L & Jeffrey A Prestholdt

Authorized Agent: N/A

Site Location: 12348 Arrowhead Lane, Crosslake, MN 56442 on Crosslake - GD

Variance for:
- Lake setback of 68 feet where 75 feet is required to proposed septic tank
- Side yard setback of 5 feet where 10 feet is required to proposed septic drainfield

To construct:
- A new septic system

Notification: Pursuant to Minnesota Statutes Chapter 462, and the City of Crosslake Zoning Ordinance, you are hereby notified of a public hearing before the City of Crosslake Planning Commission/Board of Adjustment. Property owners have been notified according to MN State Statute 462 & published in the local newspaper. Please share this notice with any of your neighbors who may not have been notified by mail.

Information: Copies of the application and all maps, diagrams or documents are available at Crosslake City Hall or by contacting the Crosslake Planning & Zoning staff at 218-692-2689. Please submit your comments in writing including your name and mailing address to Crosslake City Hall or (crosslakepz@crosslake.net).

STAFF REPORT

Property Owner/Applicant: Dennis L & Jeffrey A Prestholdt

Parcel Number(s): 14300687

Application Submitted: July 7, 2023

Action Deadline: September 4, 2023

City 60 Day Extension Letter sent / Deadline: NA / NA

Applicant Extension Received / Request: NA / NA

City Council Date: NA

Authorized Agent: N/A

Variance for:

- Lake setback of 68 feet where 75 feet is required to proposed septic tank
- Side yard setback of 5 feet where 10 feet is required to proposed septic drainfield

To construct:

- A new septic system

Current Zoning: Shoreland District

Existing Impervious Coverage:	**Proposed Impervious Coverage:**
20.7%	20.7%

- A stormwater management plan was submitted with the variance application
- Septic design was submitted for approval pending variance outcome

Parcel History:

- Barthel's Subdivision Plat established in 1970
- July 1972 – Boathouse 14x24
- August 1981 – Garage
- July 1994 – Update septic
- December 2004 – Construct an addition onto an existing cabin at less than the required 75 ft setback from a General Development Lake
- March 2005 – Construct addition to existing cabin: 384 sq ft covered porch; 1,024 sq ft second floor addition

Agencies Notified and Responses Received:
County Highway Dept: N/A
DNR: No comment received before packet cutoff date
City Engineer: N/A
Lake Association: No comment received before packet cutoff date
Crosslake Public Works: No comment received before packet cutoff date
Crosslake Park, Recreation & Library: N/A

Concerned Parties: No comment received before packet cutoff date

POSSIBLE MOTION:

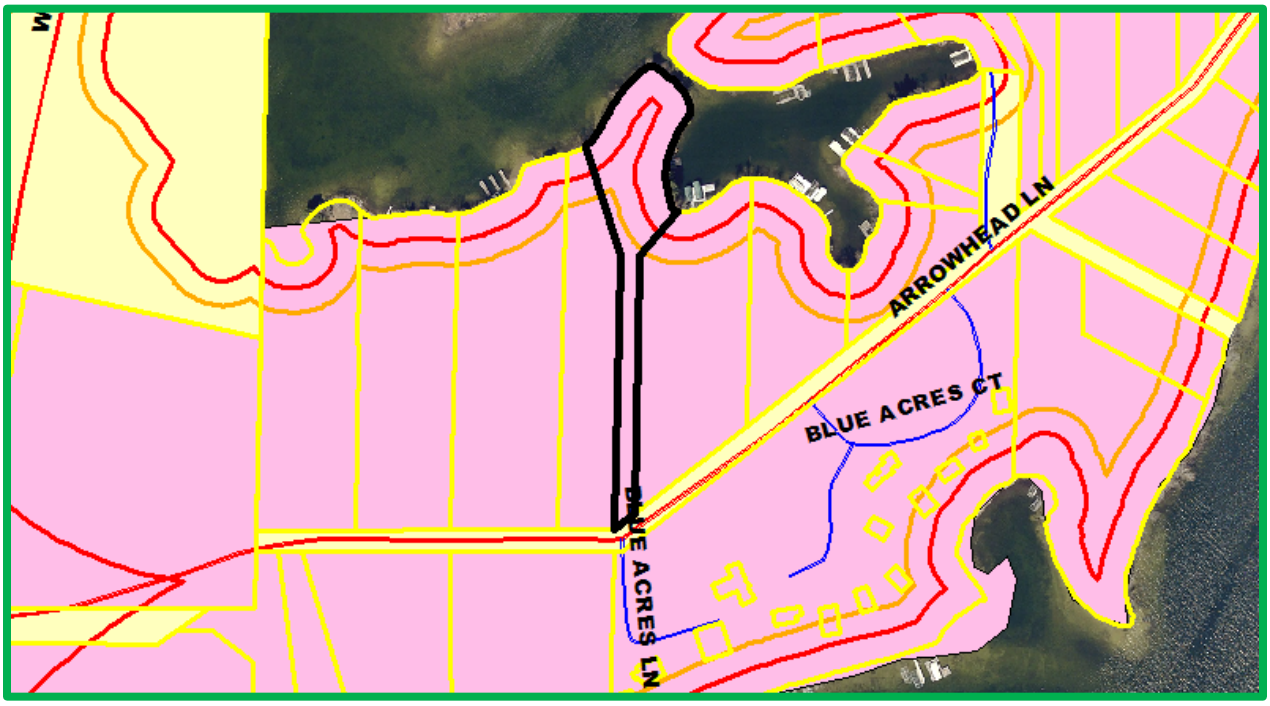
To approve/table/deny the variance to allow:

- Lake setback of 68 feet where 75 feet is required to proposed septic tank
- Side yard setback of 5 feet where 10 feet is required to proposed septic drainfield

To construct:

- A new septic system

As shown on the certificate of survey dated 7-25-2023



CERTIFICATE OF SURVEY

LOT 1, BLOCK ONE, BARTHEL'S SUBDIVISION, SECTION 30, TOWNSHIP 137 NORTH, RANGE 27 WEST, CROW WING COUNTY, MINNESOTA
AREA = 39,695 SQ. FT.± / 0.9 ACRES±
BUILDABLE AREA = 5,626 SQ. FT.

CROSS LAKE

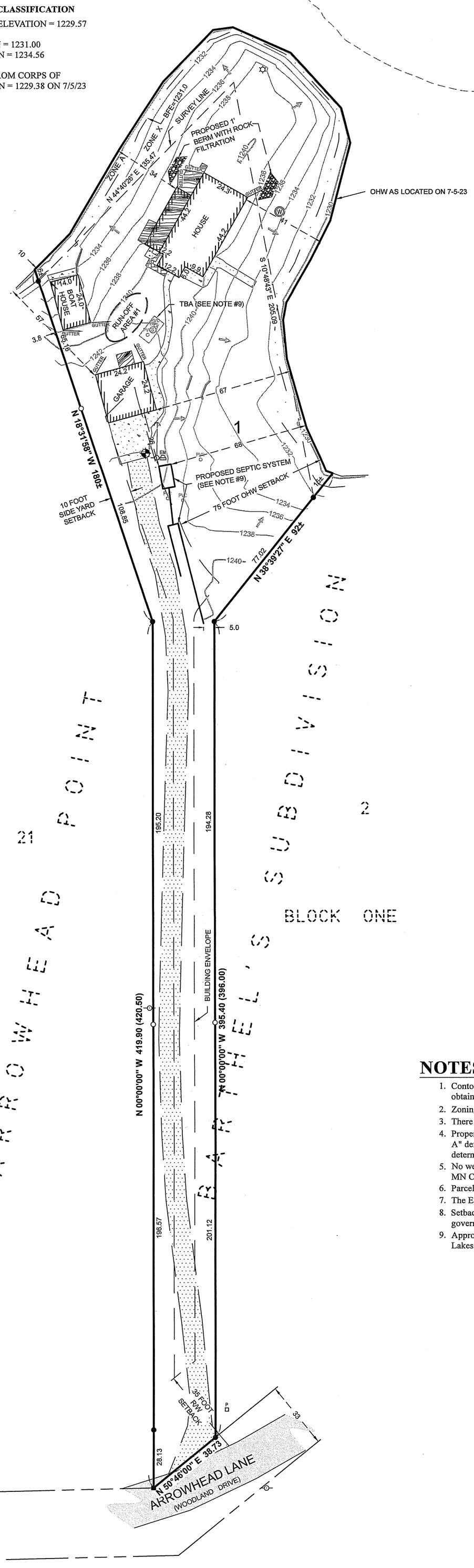
GENERAL DEVELOPMENT CLASSIFICATION

NORMAL RESERVOIR POOL ELEVATION = 1229.57

100 YEAR FLOOD ELEVATION = 1231.00
HIGHEST KNOWN ELEVATION = 1234.56

INFORMATION OBTAINED FROM CORPS OF ENGINEERS LAKE ELEVATION = 1229.38 ON 7/5/23

BASED ON NGVD 29 DATUM



LEGEND

- DENOTES EXISTING RETAINING WALL
- DENOTES EDGE OF EXISTING BITUMINOUS
- DENOTES EDGE OF EXISTING GRAVEL
- DENOTES EDGE OF EXISTING PAVING STONES
- DENOTES EDGE OF EXISTING CONCRETE
- DENOTES EDGE OF EXISTING WOODEN DECKING
- 1208 — DENOTES EXISTING INTERMEDIATE CONTOURS
- 1210 — DENOTES EXISTING INDEX CONTOURS
- DENOTES EXISTING MOUNTED LIGHT
- DENOTES EXISTING UTILITY POLE W/ GUY WIRE
- EM — DENOTES EXISTING ELECTRIC METER
- P / P — DENOTES EXISTING PHONE PEDESTAL & PHONE BOX
- W — DENOTES EXISTING WELL
- PVC SCO LID — DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
- **BENCHMARK:** CORNER OF CONCRETE
  ELEV. = 1241.67
  BASED ON NGVD 29 DATUM
- (123.45) — DENOTES PLAT AND/OR DEEDED MEASURE
- ■ — DENOTES FOUND PK NAIL
- ● — DENOTES MONUMENT FOUND
- ○ — DENOTES IRON MONUMENT SET MARKED BY LICENSE No. 44881

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE RECORDED PLAT OF BARTHEL'S SUBDIVISION.

IMPERVIOUS CALCULATIONS

EXISTING	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft)	Percent Impervious (sq.ft)
House	1,399	39,695	3.5%
Garage	587	39,695	1.5%
Boathouse	334	39,695	0.8%
Concrete & Pavers	944	39,695	2.4%
Gravel	4,936	39,695	12.4%
Total	**8,200**	**39,695**	**20.7%**

RUN OFF CALCULATIONS					
Total Impervious Surface Area	4,067 sq. ft.	X	0.0833 ft.	=	339 cu. ft.

PROPOSED RUN OFF AREA
AREA #1
TOP SURFACE AREA = 307 SQ. FT.
BOTTOM SURFACE AREA = 134 SQ. FT.
1' DEEP WITH 3:1 SIDE SLOPES
TOTAL RUN OFF STORAGE PROPOSED = 220 CU. FT.
BERMS WITH ROCK FILTRATION: TOTAL RUN OFF STORAGE PROPOSED = 120 CU. FT.

Note: There are existing gutters on the house and garage to be directed to the proposed run-off collection areas and berm.
Gutters are to be added to the boathouse to help direct runoff away from the lake.

NOTES:

1. Contour interval as shown = 2 foot. Based on NGVD 29 datum. Contours shown have been obtained using standard survey topographic methodologies. Field located on 7-5-2023.
2. Zoning for subject tract = "Shoreland District".
3. There are no bluffs or steep slopes within surveyed property.
4. Property is in "Zone X" and "Zone A" as per the FIRM, Flood Insurance Rate Map. "Zone A" definition: Areas of 100-year flood base elevations and flood hazard factors not determined. "Zone X" definition: Areas of minimal flooding.
5. No wetlands were found on June 16, 2023 at the site per Ben Meister, Meister Environmental, LLC. MN Certified Wetland Delineator #1031.
6. Parcel ID of subject parcel: 14300687.
7. The E911 address of subject parcel: 12348 Arrowhead Lane.
8. Setbacks as shown can be subject to interpretation. Verification of setbacks by the governing body is advised prior to building.
9. Approximate location of proposed septic system per sketch prepared by Amy Wannebo, Lakes Area Septic Design and Inspection. Existing septic system to be abandoned (TBA).

30 0 30 60
SCALE IN FEET
ON 22" X 34" SHEET

SHEET 1 OF 1

CERTIFICATE OF SURVEY

Dennis Prestholdt
12348 Arrowhead Lane
Crosslake, MN 56442

PROJECT MANAGER:	PROJECT No.:	DATE:
CMH	23159	7-7-2023
CHECKED BY: RJF	FILE NAME: C23159.DWG	SCALE: HORZ. 1" = 30'
DRAWN BY: CMH	FIELD BOOK: BOOK 472 PG. 37	VERT. NONE

REVISIONS

DATE	DESCRIPTION	BY
7-25-2023	Per City Comments	CMH

I HEREBY CERTIFY THAT THIS SURVEY, PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER OR LAND SURVEYOR UNDER THE LAWS OF THE STATE OF MINNESOTA.

Cynthia M Hidde
CYNTHIA M HIDDE PLS#44881
DATE 7/25/23 LIC. NO. 44881

STONEMARK LAND SURVEYING, INC.
30206 Rasmussen Road
Suite 1
P. O. Box 874
Pequot Lakes, MN 56472
218-568-4940
www.stonemarksurvey.com

Crow Wing County Trench/Pressure Bed Design

Property Owner: Dennis & Jeffrey Prestholdt Date: 5/30/2023

Mailing Address: 12348 Arrowhead Lane

City: Crosslake State: MN Zip: 56442

Home Phone Number: Cell: 505-353-1000

Site Address: 12348 Arrowhead Lane

City: Crosslake State: MN Zip: 56442

Driving directions if no address issued:

Legal Description: Lot 1 Block 1

Sec: 30 Twp: 137 Range: 27 Twp Name: Crosslake

Parcel Number: 14300687

Lake/ River: Cross Lake/River Classification: GD

Flow Data

Number of Bedrooms: 3

Dwelling Classification: I

System Type: I

GPD: 450

Estimated Flow in Gallons per Day (GPD)			
Bedrooms	Class I	Class II	Class III
2	300	225	180
3	450	300	218
4	600	375	256
5	750	450	294
6	900	525	332
7	1050	600	370
8	1200	675	408

Wells

Deep Well: Existing Deep

Shallow Well: None

Wells to be sealed (if applicable)? n/a

Setbacks

Tank(s) to: Well 50' House 10'+ Property Line 10'

Drainfield to: Well 50' House 20'+ Property Line 5'

Sewer Line to well: 50' Air Test: No

Additional System Notes and Information: Pump & remove existing tank.

Asking for variance to reduce tank to OHWL setback & side lot setback.

Designer Name: Amy A Wannebo License Number: 1840

Address: 37753 Ox Lake Landing

City: Crosslake State: MN Zip: 56442

Home Phone Number: Cell: 218-851-1563

E-Mail Address: amy.wannebo@gmail.com

I hereby certify that I have completed this work in accordance with all applicable requirements.

Designer Signature: _____ Date: 5/30/2023

Crow Wing County Trench/Pressure Bed Design

Property Owner: Dennis & Jeffrey Prestholdt Date: 5/30/2023 Designer's Initials: AAW

Tank Sizing

A. Septic Tank Capacity: 2250 Gallons Trimbo Tank

Tank Type: 3 Compartments Filter: Yes - optional

Garbage Disposal/Basement Lift Station: No Disposal or Lift

B. Pump Tank Capacity: 722 Gallons (7080.2100)

a. Alarm Type: Electric

Septic Tank Capacity		
Bedrooms	Minimum	GD/BL
5 or less	1,500	2,250
6 or 7	2,000	3,000
8 or 9	2,500	3,750

Soils

C. Depth to Restricting Layer: 7ft.

D. Native SSF:.83

(Perc. Rate [Optional] MPI)

Enter GPD next to the type of system

Rock Trenches

E. 6 in. Trench Depth GPD × D = 0.0sq. ft. Cubic Yards of Rock: 0 yds³

F. 12 in. Trench Depth GPD × D × .8 = 0.0sq. ft. Cubic Yards of Rock: 0 yds³

G. 18 in. Trench Depth GPD × D × .66 = 0.0sq. ft. Cubic Yards of Rock: 0 yds³

H. 24 in. Trench Depth 450 GPD × D × .6 = 224.1sq. ft. Cubic Yards of Rock: 20 yds³

I. Divide (E-H) by Trench Width for lineal feet: 224.1 ÷ 3 = 74.7

1-50' Trench
1-25' Trench

Chamber Trenches

J. Brand: Dimensions of one chamber (L x W): ft. × ft.

K. 6-11 in. Chamber Depth GPD × D = 0.0sq. ft.

L. 12 in. Chamber Depth GPD × D × .8 = 0.0sq. ft.

M. Select from (K-L) if installing Chamber Trenches: 0.0

N. Divide (M) by Trench Width for lineal feet: 0.0 ÷ 0 = Lineal Feet

O. Total Chambers Needed (**Round Up**): Chambers

Seepage/Pressure Beds

P. Seepage Bed GPD × D × 1.5 = 0.0sq. ft.

a. Bed Dimensions ft. × ft.

b. Cubic Yards of Rock Bed Length × Bed Width × Rock Depth ft. ÷ 27 = 0 yds³

Q. Pressure Bed GPD × D = 0.0sq. ft.

a. Bed Dimensions ft. × ft.

b. Cubic Yards of Rock Bed Length × Bed Width × Rock Depth ft. ÷ 27 = 0 yds³

Additional System Notes and Information: Asking for 68' setback from tank to OHWL for 6'x14' of the tank, the remaining 1'x14' meets the OHWL setback of 75'. Asking for 5' setback from the side property line to a section of the trench measuring 3'x75', the remaining 3'x75' of that trench & the 25' trench will meet the OHWL setback & the 10' setback.

Crow Wing County Trench/Pressure Bed Design

Property Owner: Dennis & Jeffrey Prestholdt
Date: 5/30/2023

Designer's Initials: AAW

Determine Pump Capacity

1) Gravity Distribution Pump Capacity Range: 10 - 45 GPM

*Skip to Pump Head Requirements if pumping to gravity

2) Pressure Distribution:

a) Number of laterals: 2

b) Lateral Size: 1.5in.

c) Perforation spacing: 3ft.

d) Check Table 4 to see the maximum number of perforations per lateral.

3) Lateral Length (choose):

a) End manifold: rock bed length: 50 (25) - 2 ft. = 48ft.

b) Center manifold: rock bed length /2: - 1 ft. = -1ft.

c) Choose 3a or 3b: 48ft. ÷ 23

4) Total Perforation Determination:

8 perforations/Lateral = on 25' trench

a) (3c): 48ft. ÷ (2c): 3ft. + 1 = 17 Perforations / Lateral = on 50' trench

b) (4a): 17 * 8 = 25 Total Number of Perforations

c) Select perforation discharge from Table 1 = .74 GPM/Perf.

d) (4b): 25 × (4c): 0.74 GPM/Perf. = 18.5 GPM

PUMP HEAD REQUIREMENTS

5) Elevation difference:

a) Elevation difference between pump and point of discharge 6ft.

b) If pumping to a pressure distribution system, (5a) + 5 = 11ft.

c) Choose 5a if pumping to gravity or 5b for pressure: 11ft.

6) Friction loss:

a) Select a value from Table 2: .73 ft. / 100 ft. of pipe

b) Pipe length to drainfield: 20ft. × 1.25 = 25ft.

c) (6a): .73 × (6b): 25 ÷ 100 = 0.18 Total Friction Loss

7) Drainback:

a) Actual Pipe length 20ft. × .17 gal/ft. (Table 3) = 3.4 gal

8) (5c): 11ft. + (6c): 0.18ft. = 11.18 Total Head Required

9) Minimum Pump Size 20 GPM (4d) & 11ft. of dynamic head (8)

Table 1
Perforation Discharge (GPM/perf.)

Ft. of Head	7/32" Perf	1/4" Perf
1.0	0.56	0.74
2.0	0.80	1.04

Use 1.0 for single homes, 2.0 for everything else

Table 2
Friction Loss in Plastic Pipe

Flow (GPM)	1.5"	2"	3"
20	2.47	0.73	0.11
25	3.73	1.11	0.16
30	5.23	1.55	0.23
35	6.96	2.06	0.30
40	8.91	2.64	0.39
45	11.07	3.28	0.48
50	13.46	3.99	0.58
55		4.76	0.70
60		5.60	0.82
65		6.48	0.95
70		7.44	1.09

Table 3
Volume of Liquid in Pipe

Pipe Diameter	Gal/Ft.
1.25 in.	0.078
1.5 in.	0.11
2.0 in.	0.17

Table 4
Max Perforations/Lateral

Perf. Spacing	1.25" Pipe	1.5" Pipe	2" Pipe
2.5 ft.	14	18	28
3 ft.	13	17	26
3.3 ft.	12	16	25
4 ft.	11	15	23
5 ft.	10	14	22

Crow Wing County Trench/Pressure Bed Design

Property Owner: Dennis & Jeffrey Prestholdt Date: 5/30/2023 Designer's Initials: AAW

Please record the depths of all horizons, redoximorphic features, restricting layers, and saturated soils. Include all chroma and hue values.

#1 Proposed Site Hand Auger

Depth (in.)	Texture	Color
0-4	MSL <5/GRSVFR V/C	10YR3/2
4-21	MSL <5% SGRLL	10YR4/4
21-30	MS 5% SGR LL	10YR4/4
30-72	MS 5% SGR LL	10YR5/6
72-84	MS 5% SGR LL	1YR5/4

#1 Alternate Site

Depth (in.)	Texture	Color

#2 Proposed Site Hand Auger

Depth (in.)	Texture	Color
0-7	MSL <5/GRSVFR V/C	10YR3/2
7-20	MSL <5% SGRLL	10YR4/4
20-50	MS 5% SGR LL	10YR4/4
50-84	MS 5% SGR LL	10YR5/6

#2 Alternate Site

Depth (in.)	Texture	Color

Soil Sizing Factors/Hydraulic Loading Rates

Perc. Rate	Texture	SSF	HLR	Perc. Rate	Texture	SSF	HLR
<0.1	Coarse Sand			16 to 30	Loam	1.67	0.60
0.1 to 5	Sand	0.83	1.20	31 to 45	Silt Loam	2.00	0.50
0.1 to 5	Fine Sand	1.67	0.60	46 to 60	Clay Loam	2.20	0.45
6 to 15	Sandy Loam	1.27	0.79	> 60	Clay Loam	****	0.24

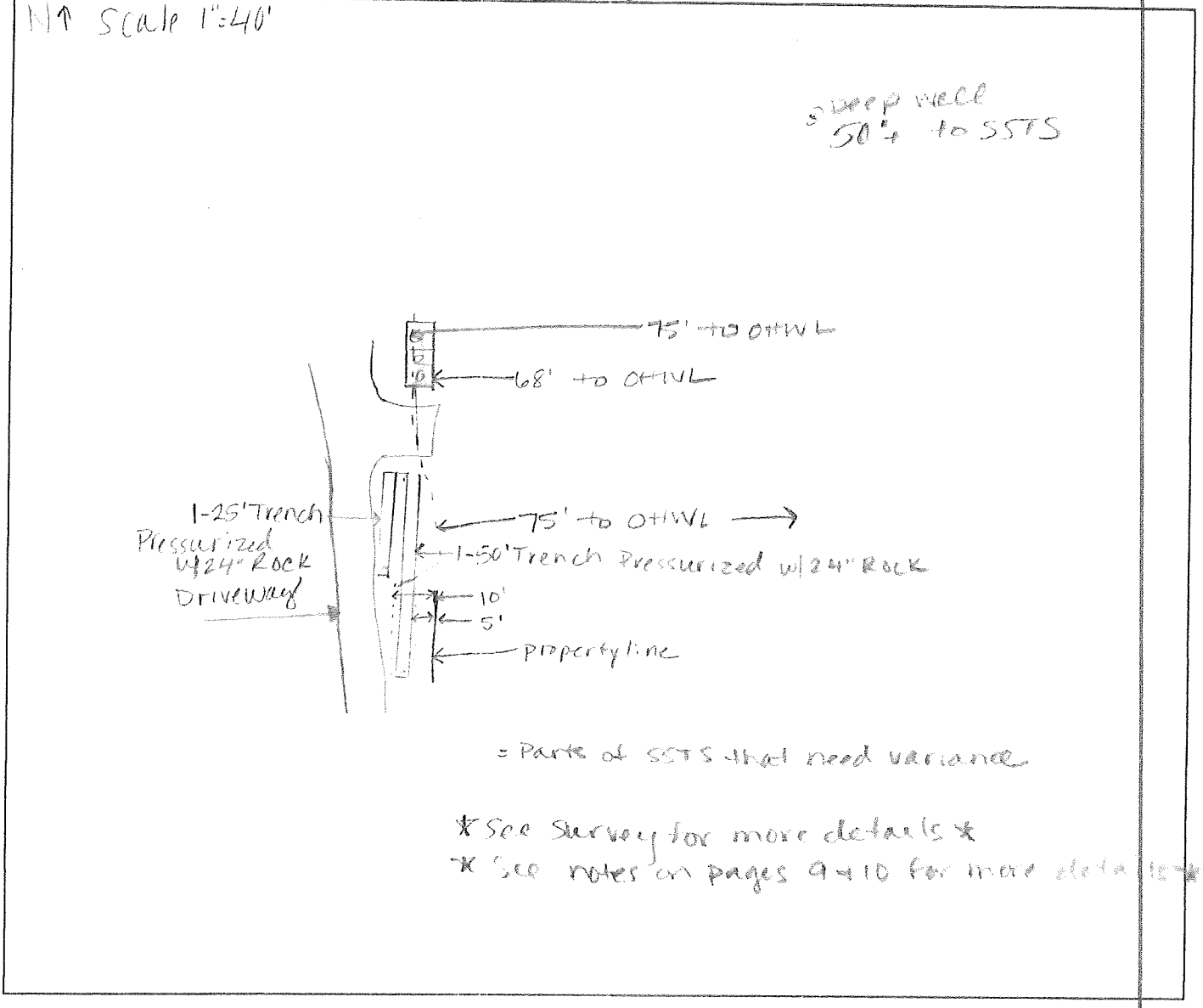
Description of Soil Treatment Areas

	Proposed Site		Alternate Site	
Disturbed Areas?	Yes			
Compacted Areas?	No			
Flooding Potential?	No			
Run on Potential?	No			
Limiting Layer Depth	Proposed #1 84"	Proposed #2 84"	Alternate #1	Alternate #2
Slope % and Direction	0			
Landscape Position	Summit			
Vegetation Types	Grass & Trees			
Soil Texture	Sand			
Soil Sizing Factor	0.83		Select One	

Crow Wing County Trench/Pressure Bed Design

Property Owner: Dennis & Jeffrey Prestholdt Date: 5/30/2023

Please Draw to Scale with North Arrow to top or Left Side of Page



Please show all that apply (Existing or Proposed):

Wells within 100 ft. of a Drainfield	Disturbed/Compacted Areas	Access Route for Tank Maintenance
Water lines within 10 ft. of a Drainfield	Component Location	Property Lines
Drainfield Areas	OHW	Structures
Boring Locations	Lot Easements	Setbacks

Elevations:

Benchmark Elevation:
Elevation of Sewer Line at House:
Tank Inlet Elevation:
Drainfield Elevation:

Pump Elevation:
Pump Discharge Elevation:
Restricting Layer Elevation:

Designer Signature: [signature] Date: 5/30/2023

License #1840

Subsurface Sewage Treatment System Management Plan

Property Owner: Dennis & Jeffrey Prestholdt Phone: 505-353-1000 Date: 5/30/2023

Mailing Address: 12348 Arrowhead Lane City: Crosslake Zip: 56442

Site Address: 12348 Arrowhead Lane City: Crosslake Zip: 56442

This management plan will identify the operation and maintenance activities necessary to ensure long-term performance of your septic system. Some of these activities must be performed by you, the homeowner. Other tasks must be performed by a licensed septic service provider.

System Designer: check every 36 months.
Local Government: check every _____ months.
State Requirement: check every 36 months.

My System needs to be checked every 36 months.

Homeowner Management Tasks

Leaks - Check (look, listen) for leaks in toilets and dripping faucets. Repair leaks promptly.

Surfacing sewage - Regularly check for wet or spongy soil around your soil treatment area.

Effluent filter – Inspect and clean twice a year or more.

Alarms – Alarm signals when there is a problem. Contact a service provider any time an alarm signals.

Event counter or water meter – Record your water use.

-recommend meter readings be conducted *(choose one:* Daily ○ Monthly ○ Yearly ○

Professional Management Tasks

- € Check to make sure tank is not leaking
- € Check and clean the in-tank effluent filter
- € Check the sludge/scum layer levels in all septic tanks
- € Recommend if tank should be pumped
- € Check inlet and outlet baffles
- € Check the drainfield effluent levels in the rock layer
- € Check the pump and alarm system functions
- € Check wiring for corrosion and function
- € Check dissolved oxygen and effluent temperature in tank
- € Provide homeowner with list of results and any action to be taken
- € Flush and clean laterals if cleanouts exist

"I understand it is my responsibility to properly operate and maintain the sewage treatment system on this property, utilizing the Management Plan. If requirements in the Management Plan are not met, I will promptly notify the permitting authority and take necessary corrective actions. If I have a new system, I agree to adequately protect the reserve area for future use as a soil treatment system."

Property Owner Name: Dennis & Jeffrey Prestholdt 5/30/2023

Designer Signature: [signature] 5/30/2023

See Reverse Side for Home Owner Management Log

Pg 1 of 10

Home Owner Maintenance Log

Activity	Date Accomplished							
Check frequently:								
Leaks: check for plumbing leaks								
Soil treatment area check for surfacing								
Lint filter: check, clean if needed								
Effluent screen: if owner-maintained								
Water usage rate (monitor frequency)								
Check annually:								
Caps: inspect, replace if needed								
Sludge & Scum/Pump								
Inlet & Outlet baffles								
Drainfield effluent leaks								
Pump, alarm, wiring								
Flush & clean laterals if cleanouts exists								
Other:								
Other:								

Notes:

Mitigation/corrective action plan:

CERTIFICATE OF SURVEY

LOT ONE, BLOCK ONE, BARTHEL'S SUBDIVISION
SECTION 30, TOWNSHIP 137 NORTH, RANGE 27 WEST,
CROW WING COUNTY, MINNESOTA

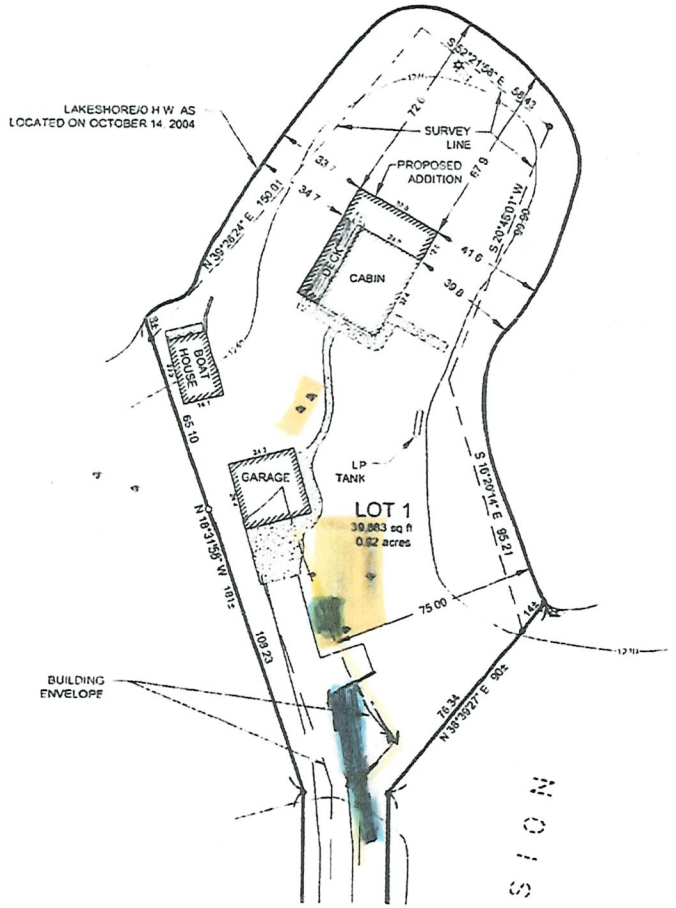
8 of 10

CROSS LAKE

GENERAL DEVELOPMENT CLASSIFICATION
NORMAL RESERVOIR POOL ELEVATION = 1229 57

100 YEAR FLOOD ELEVATION = 1232 8
HIGHEST KNOWN ELEVATION = 1234 56

INFORMATION OBTAINED FROM CORPS OF ENGINEERS
LAKE ELEVATION = 1229 07 ON OCTOBER 14, 2004



= SSTS

= Set back line to be marked by surveyor

= Existing SSTS

IMPERVIOUS CALCULATIONS

EXISTING

	Impervious Area (sq ft)	Total Net Area (sq ft)	Percent Impervious (sq ft)
Structures			
Cabin	777	39,883	1.9%
Garage	592	39,883	1.5%
Boathouse	337	39,883	0.8%
Deck	260	39,883	0.7%
Gravel			
Driveway	6,015	39,883	15.1%
Other			
Concrete Walkway/Pads	977	39,883	2.4%
Total	8,958	39,883	22.5%

PROPOSED

	Impervious Area (sq ft)	Total Net Area (sq ft)	Percent Impervious (sq ft)
Structures			
Cabin	777	39,883	1.9%
Garage	592	39,883	1.5%
Boathouse	337	39,883	0.8%
Deck	260	39,883	0.7%
Proposed Addition	384	39,883	1.0%
Gravel			
Driveway	6,015	39,883	15.1%
Other			
Concrete Walkway/Pads	960	39,883	2.4%
Total	9,326	39,883	23.4%

LEGEND

DENOTES EXISTING RETAINING WALL

DENOTES EDGE OF EXISTING BITUMINOUS

DENOTES EDGE OF EXISTING

Notes for Prestholdt Preliminary Design 5/30/2023:

- This design is preliminary and will be adjusted as needed based on surveying results and variance process.
- I am waiting on Stonemark Surveying (as of 5/31/23 they are 5 weeks out) to mark the 75' set back from the OHWL and the 10' setback from the East property line along the driveway. Once those are marked, I will stake out the tank and drain field locations on site. This will give more exact measurements for setback reductions and the parts of the SSTS that don't meet the minimum setbacks. At that time, I can shift SSTS parts in any direction as needed and update the design.
- As of 5/31/2023 the property owner is asking for a reduced OHWL set back to 68' for 6'x14' of the tank instead of the 75' setback. 1'x14' of the tank will meet the 75' setback. And a reduced side lot setback of 5' instead of 10' for 3'x25' of the 50' trench. The North 3'x25' of that trench and the entirety of the 25' trench will meet the OHWL set back.
- There is a dead tree & stump near the tank location that will need to be removed. And another tree near the beginning of the trenches will need to be removed. The fiber optic and natural gas lines are currently running through the proposed drain field location and will need to be moved. Ideally those will be moved to the edge of the East property line as close to it as possible.
- Some sort of barrier will need to be placed around the north, west and south sides of both the tank and the drain field to prevent any traffic on top of either location. A fence of some sort is probably the best choice.
- If possible, it would be ideal for a portion of the driveway where it runs along the length of the drain field to be shifted to the west several feet. This would provide a bit of a buffer between the edge of the drain field and the edge of the driveway.
- The tank location will cover the last 14' of the gravel-less pipe trenches and will need to be removed. The line that runs from the tank to the drain field goes under a driveway turn around and will need to be insulated to prevent freezing.

- This design proposal offers a significate improvement to the existing SSTS of which the drain field is saturated. The existing system only has part of one trench that meets the 75' setback, the rest of the system including the tank are at 50' or less to the OHWL.

Amy Wannebo-Designer

Lakes Area Septic LLC

License #1840

218-851-1563

amy.wannebo@gmail.com

37753 Ox Lake Landing

Crosslake, MN 56442

LAKES AREA SEPTIC

DESIGN AND INSPECTION

EST. 1998

Variance Application
Planning and Zoning Department
13888 Daggett Bay Road, Crosslake, MN 56442
218.692.2689 (Phone) 218.692.2687 (Fax) www.cityofcrosslake.org

Receipt Number: 77175 (Permit Number: 230145V

Property Owner(s): Dennis L. and/or Jeffrey A. Prestholdt

Mailing Address: 12348 Arrowhead Lane 56442

Site Address: 12348 Arrowhead Lane Crosslake MN 56442

Phone Number: 952-686-1166

E-Mail Address: dprestholdt@mac.com

Parcel Number(s): 14300687

Legal Description: Lot one, block one, Barthel's Sub.

Sec 30 Twp 137 Rge 26 ☐ 27 ☒ 28 ☐

Lake/River Name: Crosslake

Do you own land adjacent to this parcel(s)? ____ Yes ___X___ No

If yes list Parcel Number(s)_____

Authorized Agent:_____

Agent Address:_____

Agent Phone Number:_____

Variances
(Check applicable requests)

- ☐ Lake/River Setback
- ☐ Road Right-of-Way Setback
- ☐ Bluff Setback
- ☐ Side Yard Setback
- ☐ Wetland Setback
- ☒ Septic Tank Setback
  68' from lake / 75' required
- ☒ Septic Drainfield Setback
  5' from side yard / 10' required
- ☐ Impervious Coverage
- ☐ Accessory Structure
- ☐ Building Height
- ☐ Patio Size
- ☐ _____
- ☐ _____

Signature of Property Owner(s) Dennis L Prestholdt Date 7/3/23

Signature of Authorized Agent(s)_____ Date_____

- All applications must be accompanied by a signed Certificate of Survey
- Fee $500 for Residential and Commercial Payable to "City of Crosslake"
- No decisions were made on an applicant's request at the DRT meeting. Submittal of an application after DRT does not constitute approval. Approval or denial of applications is determined by the Planning Commission/Board of Adjustment at a public meeting as per Minnesota Statute 462 and the City of Crosslake Land Use Ordinance.

For Office Use:
Application accepted by CS & PC Date 7-7-23 Land Use District SD

Lake Class GD Septic: Compliance Design SSTS Design New Installation NA

Practical Difficulty Statement

Pursuant to City of Crosslake Ordinance Article 8 – Variances may be granted when it is found that strict enforcement of the Land Use Ordinance will result in a "practical difficulty".

Please answer the following questions regarding the "practical difficulty" for your variance request.

1. Is the Variance request in harmony with the purposed and intent of the Ordinance?
   Yes ☒ No ☐
   Why:
   Defer to the Planning Commission/Board of Adjustment

2. Is the Variance consistent with the Comprehensive Plan?
   Yes ☒ No ☐
   Why:
   Defer to the Planning Commission/Board of Adjustment

3. Is the property owner proposing to use the property in a reasonable manner not permitted by the Land Use Ordinance?
   Yes ☒ No ☐
   Why: Properity is an odd shaped lake lot with lake shore on three sides. This makes the lot unable to meet the set back requirements for a new septic system.

4. Will the issuance of a Variance maintain the essential character of the locality?
   Yes ☒ No ☐
   Why: No character change will take place as the septic system will be underground

5. Is the need for a Variance due to circumstances unique to the property and not created by the property owner?
   Yes ☒ No ☐
   Why: The natural shape of the property does not allow for set back of 75'

6. Does the need for a Variance involve more than economic considerations?
   Yes ☒ No ☐
   Why: The new septic system offers significate improvement to the exsisting drain field which is ~~does~~ saturated and closer to the lake

City of Crosslake Planning Commission/Board of Adjustment

FINDINGS OF FACT

SUPPORTING / DENYING A VARIANCE REQUEST

A Variance may be granted by the Planning Commission/Board of Adjustment when it is found that strict enforcement of the Land Use Ordinance will result in a "practical difficulty" according to Minnesota Statute Chapter 462. The Planning Commission/Board of Adjustment should weigh each of the following questions to determine if the applicant has established that there are "practical difficulties" in complying with regulations and standards set forth in the Land Use Ordinance.

1. Is the Variance request in harmony with the purposes and intent of the Ordinance?
   Yes No
   Why:

2. Is the Variance consistent with the Comprehensive Plan?
   Yes No
   Why:

3. Is the property owner proposing to use the property in a reasonable manner not permitted by the Land Use Ordinance?
   Yes No
   Why:

4. Will the issuance of a Variance maintain the essential character of the locality?
Yes No
Why:

5. Is the need for a Variance due to circumstances unique to the property and not created by the property owner?
Yes No
Why?

6. Does the need for a Variance involve more than economic considerations?
Yes No
Why: