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 January 28, 2022 9:00 A.M.

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

#### **PUBLIC HEARING NOTICE**

**Applicant:** Kathleen A Brewster

**Authorized Agent:** Jarod Brewster

Site Location: 33584 Lake Street, Crosslake, MN 56442 on Crosslake-GD

#### Variance for:

- Lake setback of 60 feet where 75 feet is required to proposed dwelling
- Side yard setback of 5 feet where 10 feet is required to proposed drainfield

#### To construct:

- 2,600 square foot dwelling where 470 square feet are within the 75-foot setback
- 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).

# Crosslake

#### STAFF REPORT

Property Owner/Applicant: Kathleen A Brewster

Parcel Number(s): 14310672

Application Submitted: December 9, 2021

Action Deadline: February 6, 2022

City 60 Day Extension Letter sent / Deadline: N/A / N/A

Applicant Extension Received / Request: N/A / N/A

City Council Date: N/A

**Authorized Agent:** Jarod Brewster

#### Variance for:

• Lake setback of 60 feet where 75 feet is required to proposed dwelling

• Side yard setback of 5 feet where 10 feet is required to proposed drainfield

#### **To construct:**

• 2,600 square foot dwelling where 470 square feet are within the 75-foot setback

• A new septic system

**<u>Current Zoning:</u>** Shoreland District

#### **Existing Impervious Coverage:**

#### **Proposed Impervious Coverage:**

12.8%

25.0%

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

#### **Development Review Team Minutes held on 9-14-2021:**

- Property is located on Crosslake at 33584 Lake Street with a lake setback of 75 feet
- The proposed demo/rebuild 2 story slab on grade, with a patio and no deck planned, to be approximately 65 feet from the OHW of Crosslake
- Bench mark installed by surveyor and supplemental data form required to verify elevation is being met of 1232.5
- All setbacks shall be measured to the vertical side of the structure. No part of the structure, such as eaves, can overhang or reduce such setback by more than three feet (Sec. 26-308)
- If the eaves exceed 36" the setback and the impervious coverage shall be measured from the dripline
- Impervious is currently 12.8% with a maximum of 25% allowed and if impervious exceeds 20% a Shoreline Rapid Assessment Model form will be completed (Sec. 26-518)
- The parcel is located within a plat and/or an organization that may have restrictions, you would need to verify those restrictions and clarify that your request is approved by the organization or allowed in the plat

- Design and implement a stormwater management plan (gutters, berm & rain gardens) or update any existing plan, which is required with all variance applications per Article 8, section 26-222, (2), l). When a wetland is being used the stormwater must be filtered to drinking standards before it can flow into any wetland
- A septic design if needed or a septic compliance inspection
- Wetland Delineation is a requirement for a variance or a no wetland statement/letter
- A grade and elevation illustration along with a cut and fill calculation is required for a complete variance application
- Discussion on application requirements, procedure, schedule, fee and the requirements/need for a complete application packet by the deadline date; notification methods; variances are limited to 2 years; surveyor to state/provide square foot (sf) of structure not meeting setback vs sf within setback
- A Land Use Permit will be required prior to construction

Property owner was informed that before they could be placed on a public hearing agenda the following information is required:

- 1. A certificate of survey meeting the requirements outlined in Article 8, Sec. 26-222 of the City Land Use Ordinance
- 2. Grade and Elevation illustration, along with the Cut and fill calculations
- 3. Wetland delineation or a no wetland statement/letter
- 4. A septic design if project requires or a compliance inspection
- 5. A complete Variance application with the \$500.00 public hearing fee

#### **Parcel History:**

- Bowers' Point established in 1948
- July 1973 17x20 Addition to house
- September 1982 Septic
- September 1984 26x14 Deck
- Compliance Inspection or a design will be needed

#### **Agencies Notified and Responses Received:**

**County Highway Dept:** N/A

**DNR:** No comments were received as of 1-14-2022

City Engineer: 1-3-2022 comment received from Phil Martin

**Lake Association:** N/A

**Township:** N/A

Crosslake Public Works: No comments were received as of 1-14-2022

Crosslake Park, Recreation & Library: N/A

**Concerned Parties:** 1-12-2022 email comment from Pribyl 1-13-2022 email comment from Heltemes

#### **POSSIBLE MOTION:**

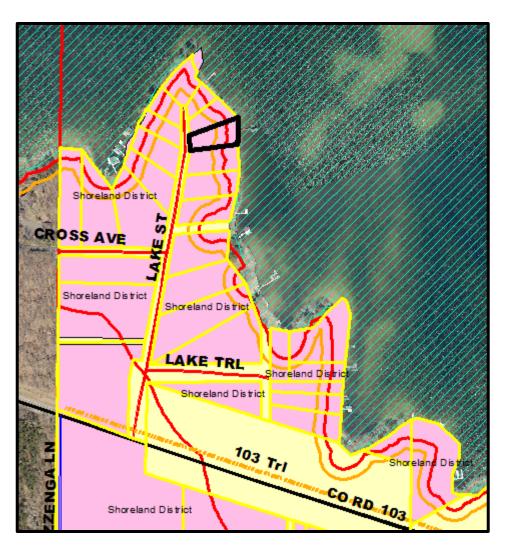
To approve/table/deny the variance to allow:

- Lake setback of 60 feet where 75 feet is required to proposed dwelling
- Side yard setback of 5 feet where 10 feet is required to proposed drainfield

#### To construct:

- 2,600 square foot dwelling where 470 square feet are within the 75-foot setback
- A new septic system

As shown on the certificate of survey dated 11-30-2021

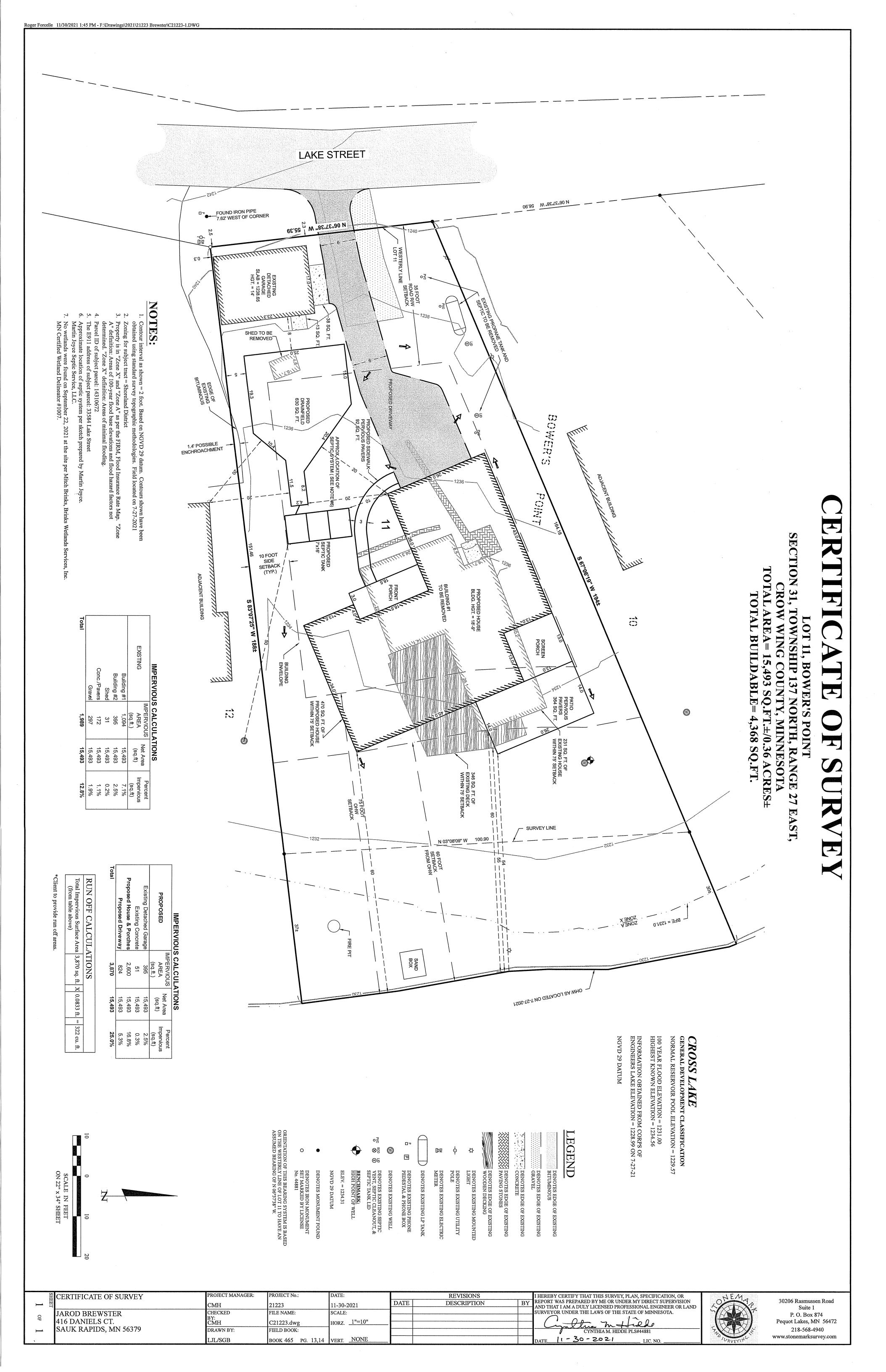




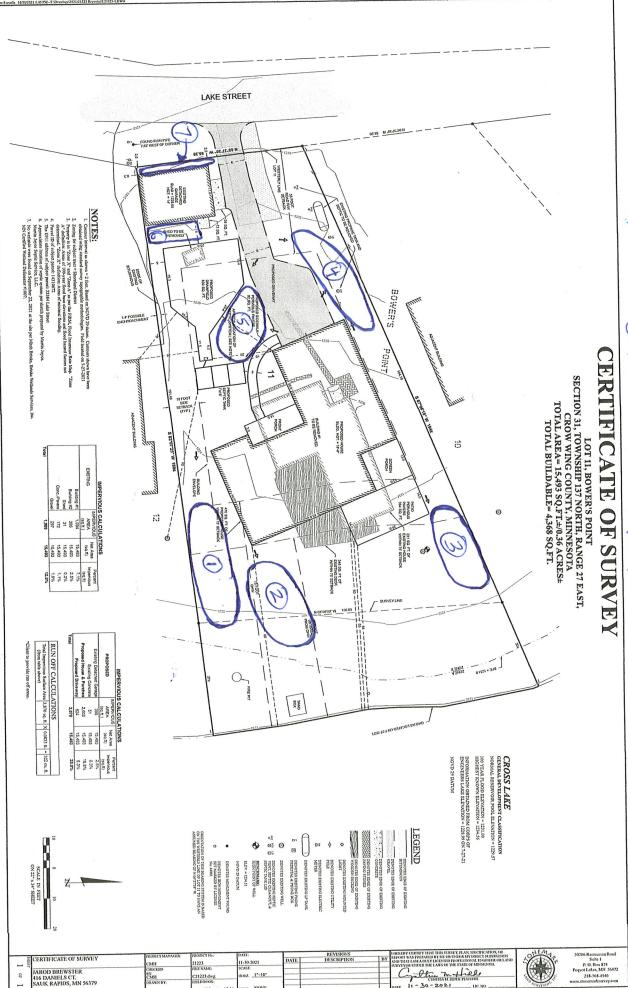








Stormwater Plan



see affached stormwater plan calculations for each

Stormwater Plan 33584 Lake St

		Impervious	Impervious Square Footage	tage			Stormwat	tormwater Storage	
				Existing				Required	
Storage			Existing	Existing Garage	Total	Cubic Feet	Storage	Square	Proposed
Area	New Building	Driveway	Garage	Concrete	Concrete Impervious from 1" rain	from 1" rain	Depth	Footage	Storage Sq Ft
-	1.197				1,197	100	4 in	299	300
ا د	341				341	28	4 in	85	200
ا بد	529				529	44	4 in	132	200
) د	T22	417			945	79	4 in	236	250
۱.4	Ü	ָּבְּבְּ בְּבְּבָּ		20	750	38	4 in	113	200
U		412		00	0C	Ü	1		
ກ			198	13	211	18	4 in	53	75
7			198		198	16	4 in	49	55
Total	2,600	824	395	51	3,870	322		967	1,280

Gutters will be used on new building to direct water runoff to storage areas as shown by arrows on survey.

#### Cheryl

From:

Jarod Brewster <jbrewster12@msn.com>

Sent:

Thursday, December 9, 2021 1:04 PM

To:

Jon Kolstad

Subject:

FW: Cut and Fill

Hi Cheryl – Here's the email from the excavator with the cut/fill amount highlighted. Let me know if you need anything else.

Jarod

From: westinpropertydev@gmail.com
Sent: Monday, November 8, 2021 9:12 PM

To: <u>'Jarod Brewster'</u> Subject: RE: Cut and Fill

Hey Jarod,

Glad to meet you! I took a look at the site plan and the topography elevations and calculated some estimates. You're probably going to want your grade at that 1237 height. That way you don't have drain back into the garage door. The back slopes to that 1233. I can get approximate numbers for you, but without knowing depth of topsoil, old foundations, stumps it'll be just an estimate.

With that 2176 footprint and if you do that big patio in the back, you would be looking at approximately 400 yards fill hauled in. If you did do the patio in the back, you might want to think about retaining wall or maybe just a short deck with footings.

Regards,

Erik

218-839-3099

From: Jarod Brewster < jbrewster12@msn.com> Sent: Monday, November 8, 2021 7:50 AM

To: westinpropertydev@gmail.com

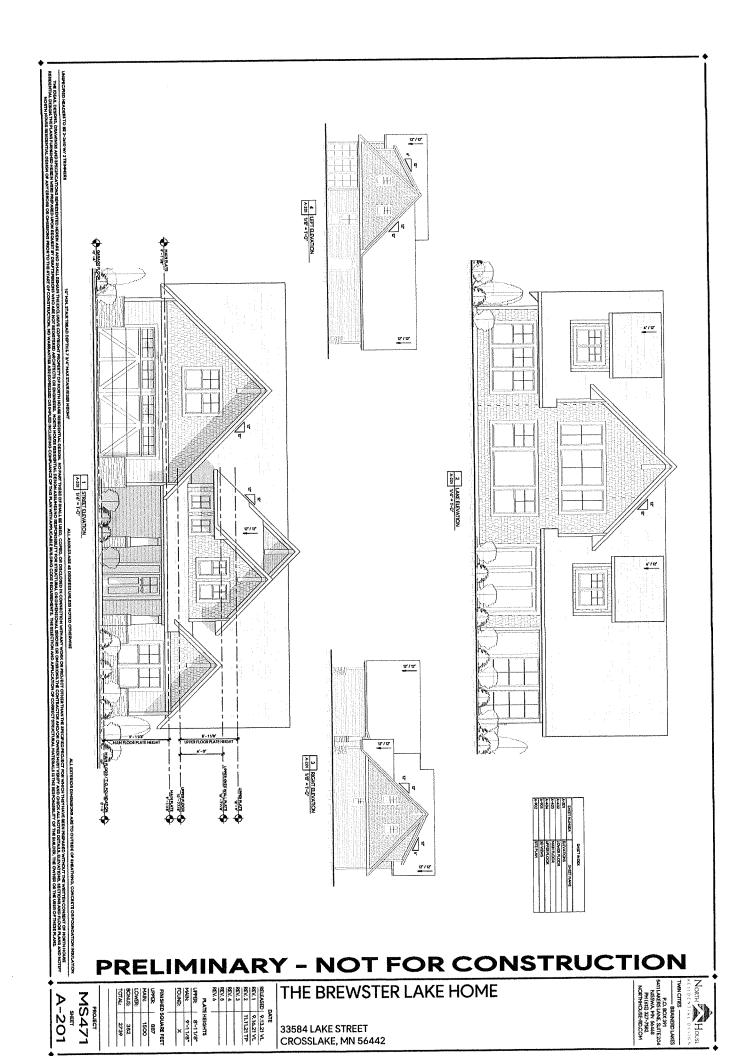
Subject: Cut and Fill

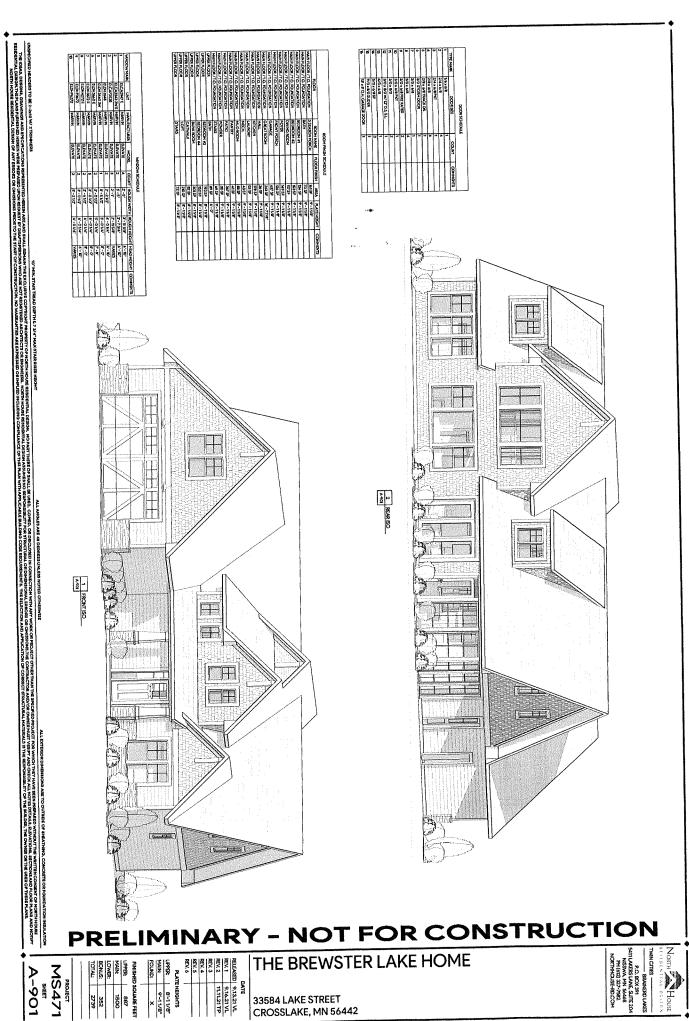
Hi Erik - Eric Larson recommended I contact you to get an estimate for cut and fill/yards of dirt for our cabin rebuild in Crosslake that I need for our variance application. I've staked out the new building and septic location at the site and attached our preliminary building design. He said you'll also be doing tear down of the main building (I'll be removing the shed and the existing garage will stay), tree removal, and removing the old septic & digging the new one.

I'm hoping you can get back to me with the cut and fill amount within the next 2 weeks but let me know when you think you can get me the estimate. Thanks!

Property address: 33584 Lake St

Jarod Brewster 320-333-0624

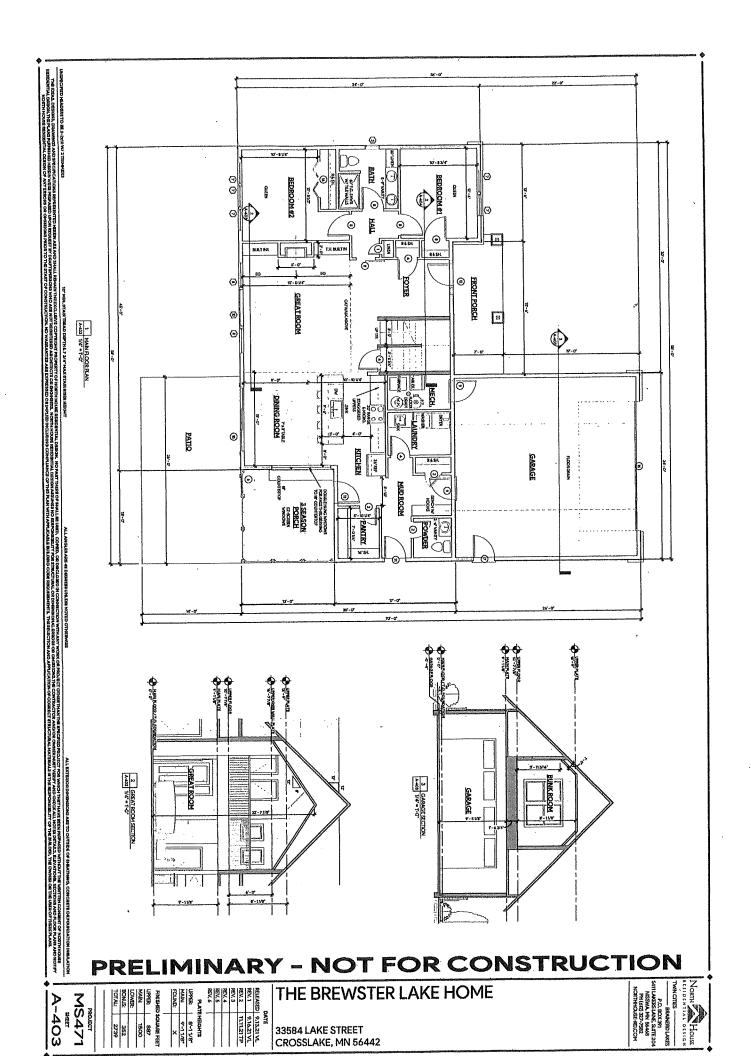


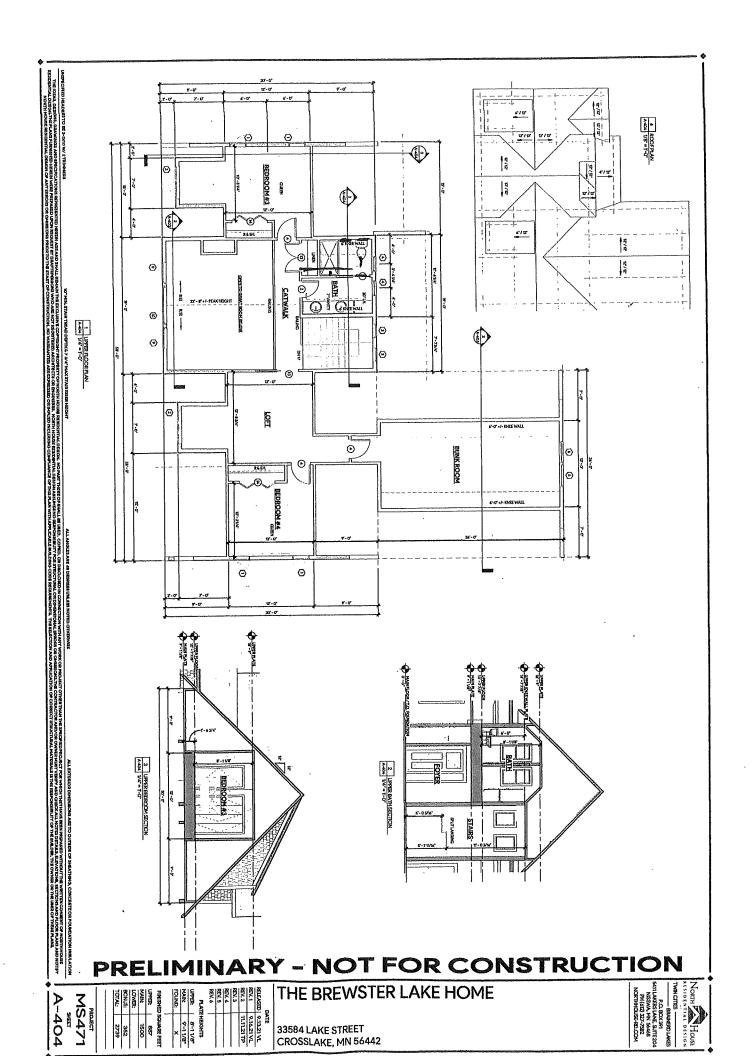


ANISHED SQUARE FEET
LIPPER: 887
MAIN: 1500
LOWER: 352
BONUS: 352
TOTAL: 2739 UPPB: 8'-11/8"
MAIN: 9'-11/8"

FOUND: X MS471 PLATE HEIGHTS

33584 LAKE STREET CROSSLAKE, MN 56442 NORTH HOUSE





# Appendix C: SHORELINE RAPID ASSESSMENT MODEL





The City of Crosslake's Shoreline Rapid Assessment Model (SRAM) is a tool for quickly and objectively determining the degree of natural vegetation along a shoreline and the amount of natural buffer required to meet Ordinance requirements. With this model, the Shore Impact Zones (SIZ-1 & SIZ-2) are evaluated for natural vegetative cover and a cumulative score is tallied. Vegetative restoration that may be necessary must be performed according to Article 19.

#### Shoreline:

Condition of Shoreline	Score:
Stable shoreline	(6)
< 25% of shoreline is eroding or unstable	-1
25-50% of shoreline is eroding or unstable	-2
50-75% of shoreline is eroding or unstable	-3
> 75% of shoreline is eroding or unstable	-4

#### Ground cover:

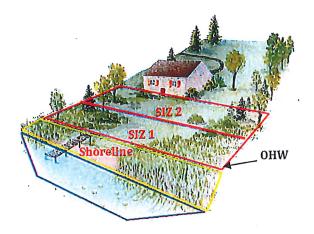
% Naturally Vegetated Cover in SIZ 1	Points:
< 25% natural ground cover	(1)
25-50% natural vegetative cover	3
50-75% natural vegetated cover	5
> 75% natural vegetated cover	7

% Naturally Vegetated Cover in SIZ 2	Points:
< 25% natural ground cover	0
25-50% natural vegetative cover	2
50-75% natural vegetative cover	3
> 75% natural vegetated cover	4

#### Trees / shrubs:

% Naturally Vegetated Cover in SIZ 1	Points:
< 25% of surface is covered by shrubs and trees	1
25-50% of surface is covered by shrubs and trees	3
50-75 % of surface is covered by shrubs and trees	5
> 75% of surface is covered by shrubs and trees	0

% Naturally Vegetated Cover in SIZ 2	Points:
< 25% of surface is covered by shrubs and trees	1
25-50% of surface is covered by shrubs and trees	2
50-75 % of surface is covered by shrubs and trees	3
> 75% of surface is covered by shrubs and trees	13



#### If score is 0-5:

Leave a 20' No Mow Buffer & possible other mitigation efforts

#### If score is 6-10:

Leave a 15' No Mow Buffer

#### If score is 11-15:

Leave a 10' No Mow Buffer

Above buffers shall allow for an access area to lake, per Ordinance requirements

Landowner Breusster Permit or Parcel Number 14310672

Score \( \frac{3}{2} \) (Max Score = 22)

Crosslake Planning & Zoning Department Staff

33584 lake St.

# A Land Use Permit must be obtained from Crow Wing County before installation of the septic system

# **Crow Wing County Trench/Pressure Bed Design**

Property Owner: Kathleen Brewster

Date: 11/2/2021

Mailing Address: 416 Daniels Ct

City: Sauk Rapids

State: MN

Zip: 56379

Home Phone Number: Jarod

Cell: 320-333-0624

Site Address: 33584 Lake St

City: Crosslake

State: MN

Zip: 56442

Driving directions if no address issued:

**APPROVED** 

By Greg Kossan at 3:41 pm, Nov 09, 2021

Legal Description: Lot 11 Bowers' Point

Sec: 31

Twp: 137

Range: 27

Twp Name: City of Crosslak

Parcel Number: 14310672

Lake/ River: Cross

Lake/River Classification: GD

#### Flow Data

Number of Bedrooms: 5 Dwelling Classification: I

System Type: I GPD: 750

Estimated Flow in Gallons per Day (GPD)					
Bedrooms	Class I	Class II	Class III		
2	300	225	180		
	450	300	218		
4	600	375	256		
5	750	450	294		
6	900	525	332		
7	1050	600	370		
•	1		1		

1200

#### Wells

Deep Well: Existing Deep

Shallow Well: None

Wells to be sealed (if applicable)?

#### Setbacks

Tank(s) to: Well +50

Drainfield to: Well +50

Sewer Line to\_well: +50

675

House 10

House 20

8

Air Test: No

408

Property Line 10

Property Line 5

# Additional System Notes and Information: NEW CONSTRUCTION

Variance needed for a 5 P/L setback for the septic. Max availble area for drainfield.

Designer Name: Martin Joyce

License Number: 2129

Address:

City:

State:

Zip:

Home Phone Number:

Cell: 218-820-2621

E-Mail Address: joycem@brainerd.net

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

Designer Signature: \_

Date: 11/2/2021

# Crow Wing County Trench/Pressure Bed Design

Property Owner: Kathleen Brewster

Date: 11/2/2021

Designer's Initials:

Tank Sizing

A. Septic Tank Capacity: 1500 Gallons

Tank Type: 2 Compartments

Filter: No

Garbage Disposal/Basement Lift Station: No Disposal or Lift

B. Pump Tank Capacity: 750 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: +.70"

D. Native SSF:.83

(Perc. Rate [Optional]

MPI)

\*\*Enter GPD next to the type of system\*\*

**Rock Trenches** 

E. 6 in. Trench Depth

GPD  $\times$  D = 0.0sq. ft.

Cubic Yards of Rock: 0 yds3

F. 12 in. Trench Depth

GPD  $\times$  D  $\times$  .8 = 0.0sq. ft.

Cubic Yards of Rock: 0 yds3

G. 18 in. Trench Depth

GPD  $\times$  D  $\times$  .66 = 0.0sq. ft.

Cubic Yards of Rock: 0 yds3

H. 24 in. Trench Depth

GPD  $\times$  D  $\times$  .6 = 0.0sq. ft.

Cubic Yards of Rock: 0 yds3

I. Divide (E-H) by Trench Width for lineal feet:  $0.0 \div 3 = 0.0$ 

### **Chamber Trenches**

J. Brand:

Dimensions of one chamber (L x W):

ft. ×

ft.

K. 6-11 in. Chamber Depth

GPD  $\times$  D = 0.0sq. ft.

L. 12 in. Chamber Depth

GPD  $\times$  D  $\times$  .8 = 0.0sq. ft.

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

N. Divide (M) by Trench Width for lineal feet:  $0.0 \div 0 =$ 

Lineal Feet

O. Total Chambers Needed (Round Up):

Chambers

## Seepage/Pressure Beds

P. Seepage Bed

GPD  $\times$  D  $\times$  1.5 = 0.0sq. ft.

a. Bed Dimensions

ft. ×

b. Cubic Yards of Rock

Bed Length × Bed Width × Rock Depth

ft.  $\div 27 = 0 \text{ yds}^3$ 

Q. Pressure Bed 750 GPD  $\times$  D = 622.5sq. ft.

a. Bed Dimensions

Variable +630 sq. ft.
Bed Length × Bed Width × Rock Depth 1ft. ÷27 = 31 yds3

b. Cubic Yards of Rock

## Additional System Notes and Information:

Install a 2250 Trombo S/L. Electric alarm. Insulate with 2" foam.

Maximizing the drainfield area. This is the only drainfield site available.

Protect drainfield area during construction.

# Crow Wing County Trench/Pressure Bed Design

Property Owner: Kathleen Brewster

Date: 11/2/2021

### **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: 5

b) Lateral Size: 2in.

c) Perforation spacing: 4ft.

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

3) Lateral Length (choose):

a) End manifold: rock bed length: 45 - 2 ft. = 43ft.

b) Center manifold: rock bed length /2:

-1 ft. = -1 ft.

c) Choose 3a or 3b: 43ft.

4) Total Perforation Determination:

a) (3c): 43ft. ÷ (2c): 4ft. + 1 = 11.75 Perforations / Lateral

b) (4a):  $12.50 \times (2a)$ : 5 = 62.50 Total Number of Perforations

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

d) (4b):  $62.5 \times (4c)$ : 0.74 GPM/Perf. = 46.25 GPM

## PUMP HEAD REQUIREMENTS

5) Elevation difference:

a) Elevation difference between pump and point of discharge 8ft.

b) If pumping to a pressure distribution system, (5a) + 5 = 13ft.

c) Choose 5a if pumping to gravity or 5b for pressure: 13ft.

6) Friction loss:

a) Select a value from Table 2: 3.99ft. / 100 ft. of pipe

b) Pipe length to drainfield: 5ft.  $\times$  1.25 = 6.25ft.

e) (6a):  $3.99 \times (6b)$ :  $6.25 \div 100 = 0.25$  Total Friction Loss

7) Drainback:

a) Actual Pipe length 5ft. × .17 gal/ft. (Table 3) = 0.85 gal

8) (5c): 13ft. + (6c): 0.25ft. = 13.25 Total Head Required

9) Minimum Pump Size 46 GPM (4d) & 13ft. of dynamic head (8) Will need to set creative on the Laterals.

Designer's Initials:

Table 1				
Perforation	n Discharge	(GPM/perf.)		
Ft. of	7/32"	1/4"		
Head	Perf	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 1	_iquid in Pipe	
Pipe Diameter	Gal/Ft.	
1.25 in.	0.078	
1.5 in.	0.11	
2.0 in.	0.17	

Table 4					
Max P	erforatio	ns/Later	al		
Perf.	1.25"	1.5"	2"		
Spacing	Pipe	Pipe	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		

Page: 3 of *(*2)

# Crow Wing County Trench/Pressure Bed Design Brewster Date: 11/2/2021

Property Owner: Kathleen Brewster

Designer's Initials:

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

#1 Proposed Site

1 Proposed one						
	Depth (in.)	Texture	Color			
	0-6	Sandy Loam	10YR 3/2			
	6-18	Sand	10YR 4/4			
	18-38	Sand	10YR 5/4-5/6			
	38-70	Sand	10YR 5/4			
	70	Hit Rock				

#1 Alternate Site

And mate of		
Depth (in.)	Texture	Color

#2 Proposed Site

#2 Alternate Site

Depth (in.)	Tayture	Color
Depth (m.)	TEXEGIC	
······································		
	ļ	

	Soil S	Sizing F	actors/Hy	draulic Load	ling Rates		
Dave Boto	Texture	SSF	HLR	Perc. Rate	Texture	SSF	HLR
Perc. Rate	Coarse Sand	301		16 to 30	Loam	1.67	0.60
<0.1		0.83	1.20	31 to 45	Silt Loam	2.00	0.50
0.1 to 5	Sand	1.67	0.60	46 to 60	Clay Loam	2.20	0.45
0.1 to 5	Fine Sand		0.79	> 60	Clay Loam	****	0.24
6 to 15	Sandy Loam	1.27	0.79	1 / 00	Ciay Louin	I	

	Description of	Soil Treatment	Areas		
	Propos	ed Site	Alternate Site		
Disturbed Areas?	mpacted Areas? No poding Potential? No				
Compacted Areas?					
Flooding Potential?					
Run on Potential?					
Limiting Layer Depth	Proposed #1 +70"	Proposed #2	Alternate #1	Alternate #2	
Slope % and Direction	1% East				
Landscape Position	Slight Side slope				
Vegetation Types	Pines, Oaks				
Soil Texture	Sand	Sand			
Soil Sizing Factor	0.83		Select One		

#### Map Unit Description (MN)

Crow Wing County, Minnesota

[Data apply to the entire extent of the map unit within the survey area. Map unit and soil properties for a specific parcel of land may vary somewnat and should be determined by onsite investigation]

## D49B--Graycalm loamy sand, 2 to 8 percent slopes

#### Graycalm

Extent: 85 to 95 percent of the unit

Landform(s): rises on outwash plains

Soil loss tolerance (T factor): 5

Wind erodibility group (WEG): 2

Slope gradient: 2 to 8 percent

Wind erodibility index (WEI): 134

Parent material: outwash

Restrictive feature(s): greater than 60 inches

Land capability, nonirrigated 4s

Restrictive feature(s): greater than 60 inches

Land capability
Flooding: none

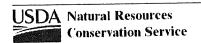
Hydric soil: no

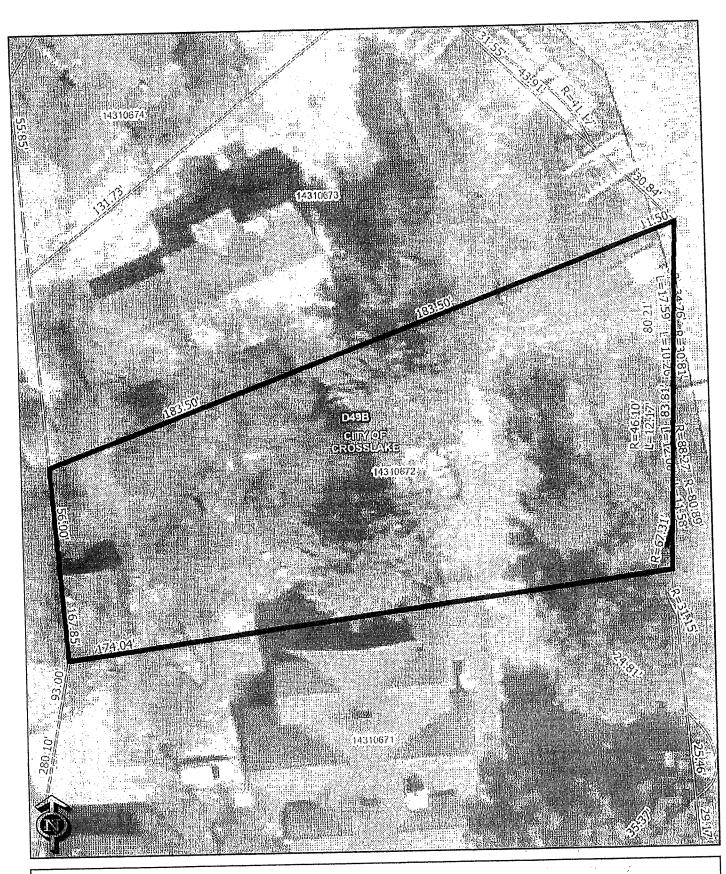
Ponding: none Hydrologic group: A

Drainage class: somewhat excessively drained Potential for frost action: low

Available water ρН Permeability Texture Representative soil profile: capacity 0.35 to 0.43 in 4.5 to 5.5 rapid Loamy sand 0 to 4 in 1.29 to 1.61 in 5.0 to 6.0 rapid 4 to 20 in Loamy sand Bw1 -0.44 to 0.66 in 5.0 to 6.0 rapid Bw2 - 20 to 31 in Sand 2.38 to 3.81 in 5.5 to 6.5 rapid E and Bt -- 31 to 79 in Sand

This report provides a semitabular listing of some soil and site properties and interpretations that are valuable in communicating the concept of a map unit. The report also provides easy access to the commonly used conservation planning information in one place. The major soil components in each map unit are displayed. Minor components may be displayed if they are included in the database and are selected at the time the report is generated.





These data are provided on an "AS-IS" basis, without warranty of any type, expressed or implied, including but not limited to any warranty as to their performance, merchantability, or fitness for any particular purpose.

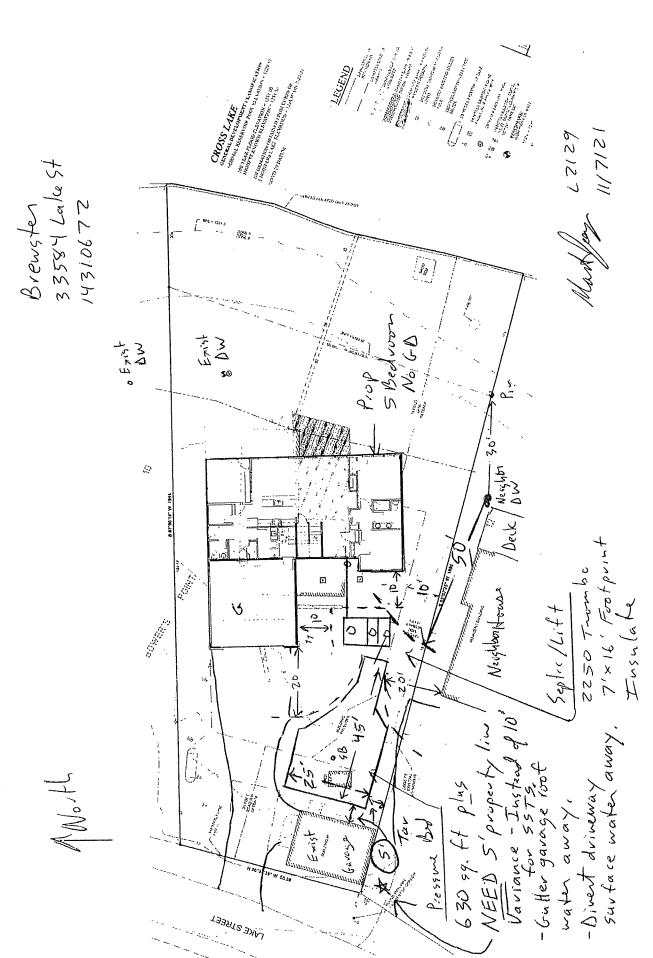
CROWWING GOFF

# Martin Joyce Septic Service, LLC

27604 County Road 3, Merrifield, MN 56465

# Sentic System Management Plan

	Septic System N	<u> Aanagement</u>	<u>Plan</u>		
Property Owner:	Kathleen Brewster	Phone:		Date:	11/2/202
Mailing Address:	416 Daniels Ct	City:	Sauk Rapids	Zip:	56379
Site Address:	33584 Lake St	City:	Crosslake	Zip:	56442
performand must be pe	s management plan will identify the operation of your septic system. Some of these act reformed by a licensed septic service providuates.  The state of the service of the service provides the service provides the service of the ser	ivities must be pert ler. months	e activities necessary to ensur formed by you, the homeowne	r. Office tasks	
	ncal Government: check everyate Requirement: check every36	months months	every 36	months	
Н	omeowner Management Tasks (performe	ed monthly unless o	therwise stated)		
	Leaks - Check (look, listen) for le	eaks in toilets and d	lripping faucets. Repair leaks	promptly	
	Surfacing sewage - Regularly of	eck for wet or spor	ngy soil around your soil treati	ment area.	
	Effluent filter - Inspect and clear	i twice a year or m	ore		
	Alarms - Alarm signal when the	re is a problem: cor	ntact Service Provider any tim	e an alarm sig	gnals
	Event counter or water meter -	Monitor your avera	ge daily water use (if it applie	s)	
P	rofessional Management Tasks				
	Check and clean the in-tank effl	uent filter			
	Check the sludge/scum layer lev	els in all septic tan	KS		
	Recommend if tank should be p				
	Pump all compartments of septi	e tank at least every	36 months		
	Check inlet and outlet baffles				
	Clean drainfield laterals (if it ap				
	Check the drain field effluent le				
	Check the pump and alarm system				
	Check wiring for corrosion and				
	Check dissolved oxygen and ef	fluent temperature i	n tank		
	Provide home owner with list o	f results and any ac	tion to be taken		
	Replacement system for this residence.	a secondary site ha	s not been identified.		
proper potify	erstand it is my responsibility to properly of ty, utilizing the Management Plan. If requi the permitting authority and take necessary the reserve area for future use as a soil tre	rements in this Mai corrective actions.	iaoemeni Pian are nocinci, i v	Atti brounbaž	ely
1	Property Owner Signature:	$\sim$	Date:		
-	101.		Date:		
-	Designer Signature:				
	Permitting Authority Signature:		Date:		7



gof 8

 From:
 Phil Martin

 To:
 Cheryl; Ted Strand

 Subject:
 RE: PC/BOA 1-28-2022

**Date:** Monday, January 3, 2022 11:30:18 AM

Hi Cheryl

My comments:

<u>Brewster</u> – The stormwater plan needs more grading and computation detail to show the plan is feasible. I'd request stormwater area grading/contour detail that shows adequate stormwater volume will be provided.

Note that the normal reservoir pool elevation is 1229.57. That means no stormwater area can have a bottom elevation lower than 1232.57 to provide 3' separation to assumed groundwater elevation for storage/infiltration area. If applicant has soil boring that shows groundwater elevation is lower than normal pool, we would consider that for setting storage area bottom limits.

Based on contour information provided, Stormwater areas 1, 2, and 3 locations seem to be unacceptable to provide 3' separation required for an infiltration area.

Stormwater areas 5 and 6 are adjacent to proposed pressure bed. Pressure bed system designer notes direct that roof water and driveway water should be diverted away from the pressure bed. We recommend they remove those areas and divert water away to stormwater storage area 4 and the north side of driveway.

The new pressure bed will occupy the only drainfield space and no secondary site has been identified according to the designer's notes.

<u>Hwy 103</u> – Stormwater computations appear to have been prepared by Widseth. We'd recommend a signed certification page be provided by the Widseth staff person doing the work for confirmation of their involvement.

**Thanks** 

Phil Martin 218-821-7265

From: Cheryl <cstuckmayer@crosslake.net>

Sent: Wednesday, December 29, 2021 11:54 AM

**To:** Dani McNeil <danielle.mcneil@state.mn.us>; Ted Strand <publicwk@crosslake.net>; Mark Melby <mark.melby@crowwing.us>; Phil Martin <Phillip.Martin@bolton-menk.com>; Brad Person <br/> <brad@breenandperson.com>

**Subject:** PC/BOA 1-28-2022

 From:
 Jarod Brewster

 To:
 Cher Crosslake

 Subject:
 RE: PC/BOA 1-28-2022

Date: Wednesday, January 12, 2022 9:29:54 AM

Hi Cheryl – Please include this response to Phil's comments with the variance packet. I wasn't able to fully resolve the issues in only a week and due to the ground being frozen, but want to include this for the PC/BOA to consider. Thank you!

In response to the comment about stormwater storage not allowing 3' of separation from the groundwater elevation: We plan for the slab-on-grade foundation to be at a height of around 1237' and gently descending towards the parcel's current elevation at the SIZ1 boundary. Additionally if needed, we will shrink the portion of the stormwater storage areas nearest the lake and increase their depth near the building to maintain the same volume. These changes will ensure the 3' of separation that's required.

In response to the comment about stormwater storage being adjacent to the septic drainfield: If the final placement of the septic does not allow for storage in those areas, we will plan to slope the driveway and use gutters on the existing garage to divert water to the north of the driveway as suggested.

From: <u>Jarod Brewster</u>

Sent: Wednesday, January 5, 2022 9:41 AM

To: Cher Crosslake

**Subject:** RE: PC/BOA 1-28-2022

Thank you, I will plan to have a response to you by the 12<sup>th</sup>!

Jarod

From: Cher Crosslake

Sent: Wednesday, January 5, 2022 9:37 AM

To: 'Jarod Brewster'

**Subject:** RE: PC/BOA 1-28-2022

If you are able to put together a correspondence addressing Phil's concerns and how/who will take care of it. So that they know you understand what is needed (or will hire someone) and you will address it when the weather conditions permit it. You could agree/suggest a condition be placed on the approval if you want. We understand that when a new structure is built that the stormwater plan may alter due to grading after construction.

If you could have it to me no later than the  $12^{th}$ , then I could put it with Phil's comments in the packet.

From: <u>John.Pribyl</u>

To: <u>crosslakepz@crosslake.net</u>

Subject: Brewster variance

**Date:** Wednesday, January 12, 2022 11:05:51 AM

Barb and I offer our full support to the Brewster's to get their variance for this project.. It will be great for them to finally upgrade their property..

John Pribyl, Retired 33557 Lake St Crosslake, MN 56442 612.508.0220 john.pribyl@crosslake.net From: <u>Gary Heltemes</u>

To: <u>crosslakepz@crosslake.net</u>

Subject: Comments regarding 33584 Lake ST, Crosslake, MN 56442

**Date:** Thursday, January 13, 2022 2:23:48 PM

#### To Whom it may concern:

Hi,

We are: Judy and Gary Heltemes 33569 Lake Street Crosslake, MN 56442

We are in full agreement with the request for variances that the Brewsters are requesting and are looking forward to their new home on Lake Street. It will be a benefit to our neighborhood.

Gary and Judy Heltemes



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: 969813	Permit Number: 210281
Property Owner(s): Kathleen Brewster	V
Mailing Address: 416 Daniels Ct Sauk Rapids MN 56379	<u>Variances</u> (Check applicable requests)
Site Address: 33584 Lake St Crosslake MN 56442	■ Lake/River Setback
Phone Number: 320-761-8819	60'where 75' is regulared to structure  Road Right-of-Way Setback
E-Mail Address: katie.brewster4@gmail.com	☐ Bluff Setback
Parcel Number(s): 14310672	Side Yard Setback
Legal Description: Lot 11, Bowers' Point	Drainfield only  Wetland Setback
Sec_31 Twp 137 Rge 26 27 ✓ 28	☐ Septic Tank Setback
Lake/River Name: Cross Lake	Septic Drainfield Setback
Do you own land adjacent to this parcel(s)? Yes X No	☐ Impervious Coverage
If yes list Parcel Number(s)	☐ Accessory Structure
Authorized Agent: Jarod Brewster	☐ Building Height
Agent Address: 3536 Sawgrass Trl W Eagan MN 55123	
Agent Phone Number: 320-333-0624	☐ Patio Size
Agent I none Number.	
Signature of Property Owner(s) Kathlew Brewster	Date 11-25-21
Signature of Authorized Agent(s)	Date 11-25-21
<ul> <li>All applications must be accompanied by a signed Certificate of Se</li> <li>Fee \$500 for Residential and Commercial Payable to "City of Cross No decisions were made on an applicant's request at the DRT mee after DRT does not constitute approval. Approval or denial of app Planning Commission/Board of Adjustment at a public meeting as City of Crosslake Land Use Ordinance.</li> </ul>	esting. Submittal of an application of statement by the
For Office Use: Application accepted by Date   2 - 9 - 202/	Land Use District 50
Lake Class Septic: Compliance 1/A SSTS Design 11	-2-2021 Installation of ter Variance



# **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.

Ι.	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:
	to construct a new building on the parcel without a variance. We've been diligent to ensure we are in compliance with all of the the Land Use
	ordinances besides the 2 variances we're requesting.
	Yes ■ No □ Why:  Most of the surrounding properties do not meet current setback regulations due to the size of the parcels. Our proposed building is very
	Most of the surrounding properties do not meet current setback regulations due to the size of the parcels. Our proposed building is very similar to other surrounding buildings that have been built in the last 25 years.
<i>5</i> .	Is the need for a Variance due to circumstances unique to the property and not created by the property owner?  Yes ■ No□  Why:
	The existing building is also 60' from OHW so we are not building any closer to the lake than the structure already is. In fact, only a
	very small portion of the proposed building is 60' from OHW and it has less square footage within the 75' setback than the existing building & deck.
6.	Does the need for a Variance involve more than economic considerations?  Yes ■ No □  Why:
	Economic considerations did not play into our need for a variance, but rather the desire to use the parcel in a similar way as
	the existing structure & neighbors.



#### 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.

there are "practic Land Use Ordina	cal difficulties" in complying with regulations and standards set forth in the nce.
1. Is the Varianc Yes Why:	e request in harmony with the purposes and intent of the Ordinance?  No
2. Is the Variance Yes Why:	e consistent with the Comprehensive Plan? No
3. Is the property the Land Use Yes Why:	owner proposing to use the property in a reasonable manner not permitted by Ordinance?  No

4.		iance of a Varia No	nce maintain th	e essential chara	acter of the locality	7?
	Is the need e property ov Yes Why?		due to circumst	ances unique to	the property and r	not created by
6.		ed for a Varian No	ce involve more	than economic	considerations?	