

CERTIFICATE OF SURVEY

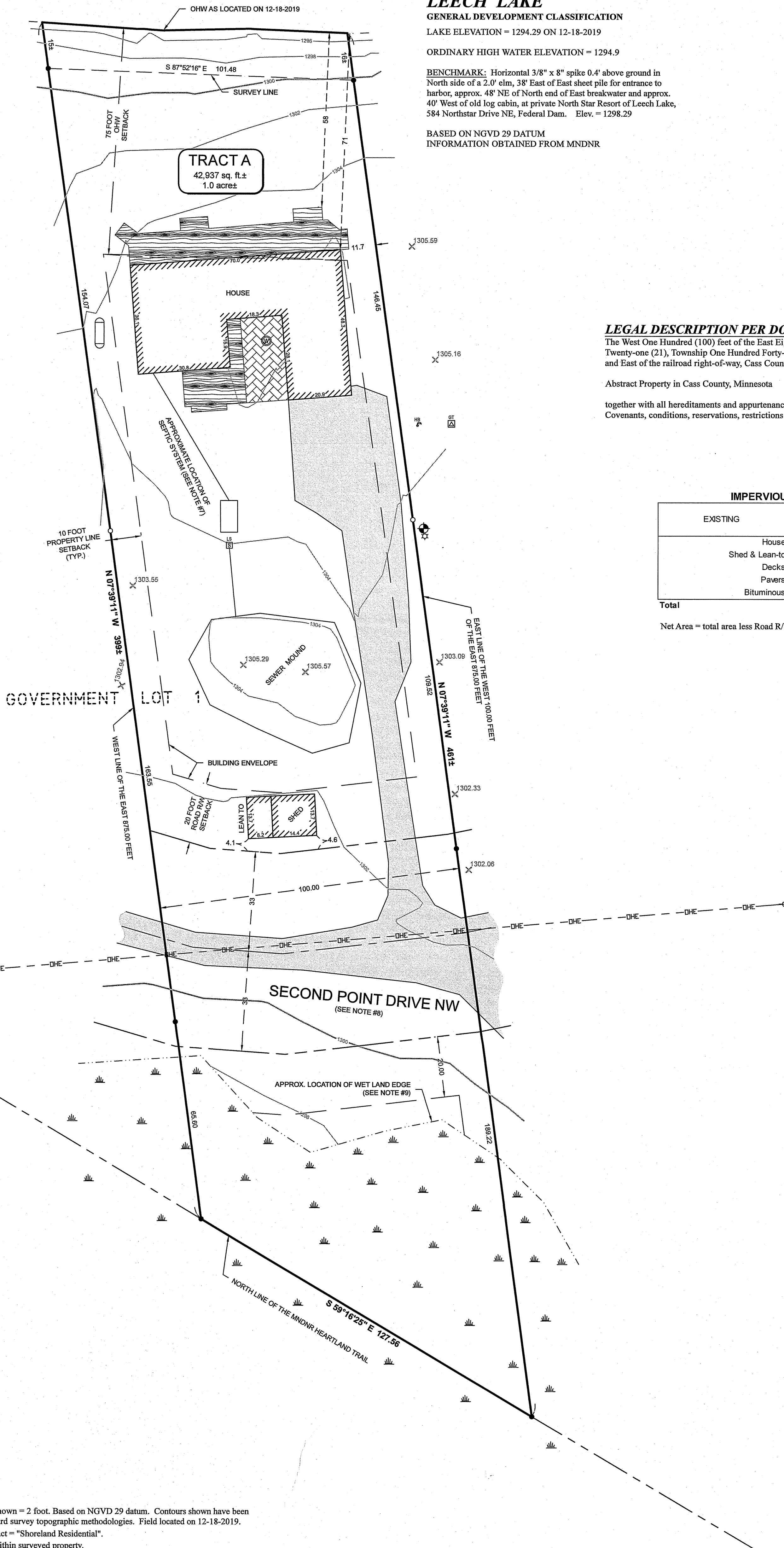
PART OF GOVERNMENT LOT 1,
SECTION 21, TOWNSHIP 142 NORTH, RANGE 31 WEST,
CASS COUNTY, MINNESOTA

LEECH LAKE

GENERAL DEVELOPMENT CLASSIFICATION
LAKE ELEVATION = 1294.29 ON 12-18-2019
ORDINARY HIGH WATER ELEVATION = 1294.9

BENCHMARK: Horizontal 3/8" x 8" spike 0.4' above ground in North side of a 2.0' elm, 38' East of East sheet pile for entrance to harbor, approx. 48' NE of North end of East breakwater and approx. 40' West of old log cabin, at private North Star Resort of Leech Lake, 584 Northstar Drive NE, Federal Dam. Elev. = 1298.29

BASED ON NGVD 29 DATUM
INFORMATION OBTAINED FROM MNDNR



LEGAL DESCRIPTION PER DOCUMENT NUMBER A000572241
The West One Hundred (100) feet of the East Eight Hundred Seventy-five (875) of Lot One (1), Section Twenty-one (21), Township One Hundred Forty-two (142), Range Thirty-one (31), lying and being North and East of the railroad right-of-way, Cass County, Minnesota.

Abstract Property in Cass County, Minnesota
together with all hereditaments and appurtenances belonging thereto, subject to the following exceptions: Covenants, conditions, reservations, restrictions and easements of record, if any.

IMPERVIOUS CALCULATIONS

EXISTING	IMPERVIOUS AREA (sq. ft.)	Net Area (sq. ft.)	Percent Impervious (sq. ft.)
House	2,493	36,239	6.9%
Shed & Lean-to	309	36,239	0.9%
Decks	1,168	36,239	3.2%
Pavers	387	36,239	1.1%
Bituminous	2,847	36,239	7.9%
Total	7,204	36,239	19.9%

Net Area = total area less Road R/W

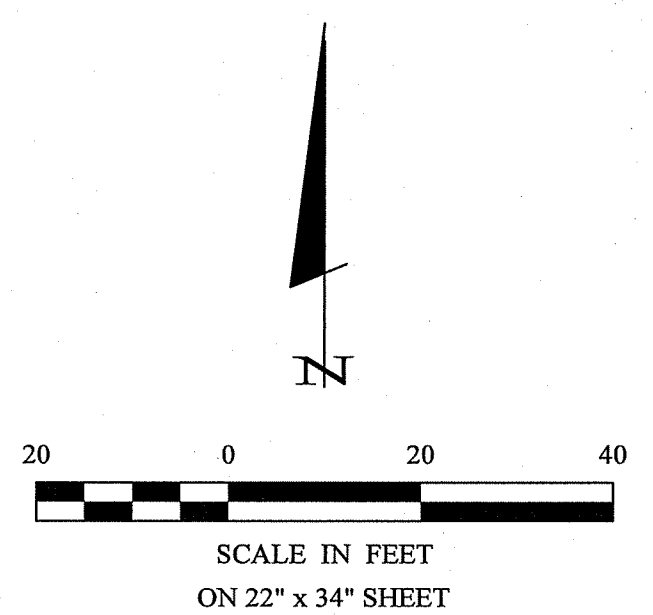
LEGEND

- DENOTES EDGE OF EXISTING BITUMINOUS
- DENOTES EDGE OF EXISTING PAVING STONES
- DENOTES EDGE OF EXISTING WOODEN DECKING
- DENOTES EXISTING INTERMEDIATE CONTOURS
- DENOTES EXISTING INDEX CONTOURS
- DENOTES SPOT ELEVATION (EXISTING GRADE)
- DENOTES WET LAND(S)
- DENOTES EXISTING MOUNTED LIGHT
- DENOTES EXISTING UTILITY POLE
- DENOTES EXISTING GROUND TRANSFORMER
- DENOTES EXISTING OVERHEAD ELECTRIC CABLE
- DENOTES EXISTING LP TANK
- DENOTES EXISTING WELL
- DENOTES EXISTING HOSE BIB
- DENOTES EXISTING SEPTIC LIFT STATION
-
- DENOTES MONUMENT FOUND
- DENOTES IRON MONUMENT SET MARKED BY LICENSE No. 44881

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE NORTH LINE OF THE MNDNR HEARTLAND TRAIL TO HAVE AN ASSUMED BEARING OF S 59°16'25" E.

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 12-18-2019.
2. Zoning for subject tract = "Shoreland Residential".
3. There are no bluffs within surveyed property.
4. Parcel ID of subject parcel: 38-121-1106.
5. The property address of subject parcel: 8420 Second Point Drive NW.
6. There was a snow depth of 1.5± feet when survey crew collected topographic data. Therefore, some physical features covered by snow may not have been identified. Only visible topographic features, improvements, and utilities were located. Site verification in spring when the snow cover is gone is recommended.
7. Approximate location of septic system per sketch prepared by John Fank, Fank's Site Evaluating.
8. No record of R/W description was found. Shingobee Township Clerk advised the R/W of Second Point Drive NW to be 33 feet either side of centerline as shown. The County GIS site shows a 66 foot wide R/W as well.
9. Wetland edge as shown is approximate based on physical features in winter conditions. A delineation is required prior to any construction South of Second Point Drive NW.



1 of 1	CERTIFICATE OF SURVEY	PROJECT MANAGER: CMH	PROJECT No.: 19346	DATE: 1-6-2020	REVISIONS	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: 1-6-2020 LIC. NO. 44881		30206 Rasmussen Road Suite 1 P. O. Box 874 Pequot Lakes, MN 56472 218-568-4940 www.stonemarksurvey.com
	Bill Janson 3920 River Oak Circle Moorhead, MN 56560	CHECKED BY: CMH	FILE NAME: C19346.dwg	SCALE: HORZ. 1"=20'	DATE			
		DRAWN BY: RJP	FIELD BOOK: BOOK 456 PG. 42	VERT. NONE				