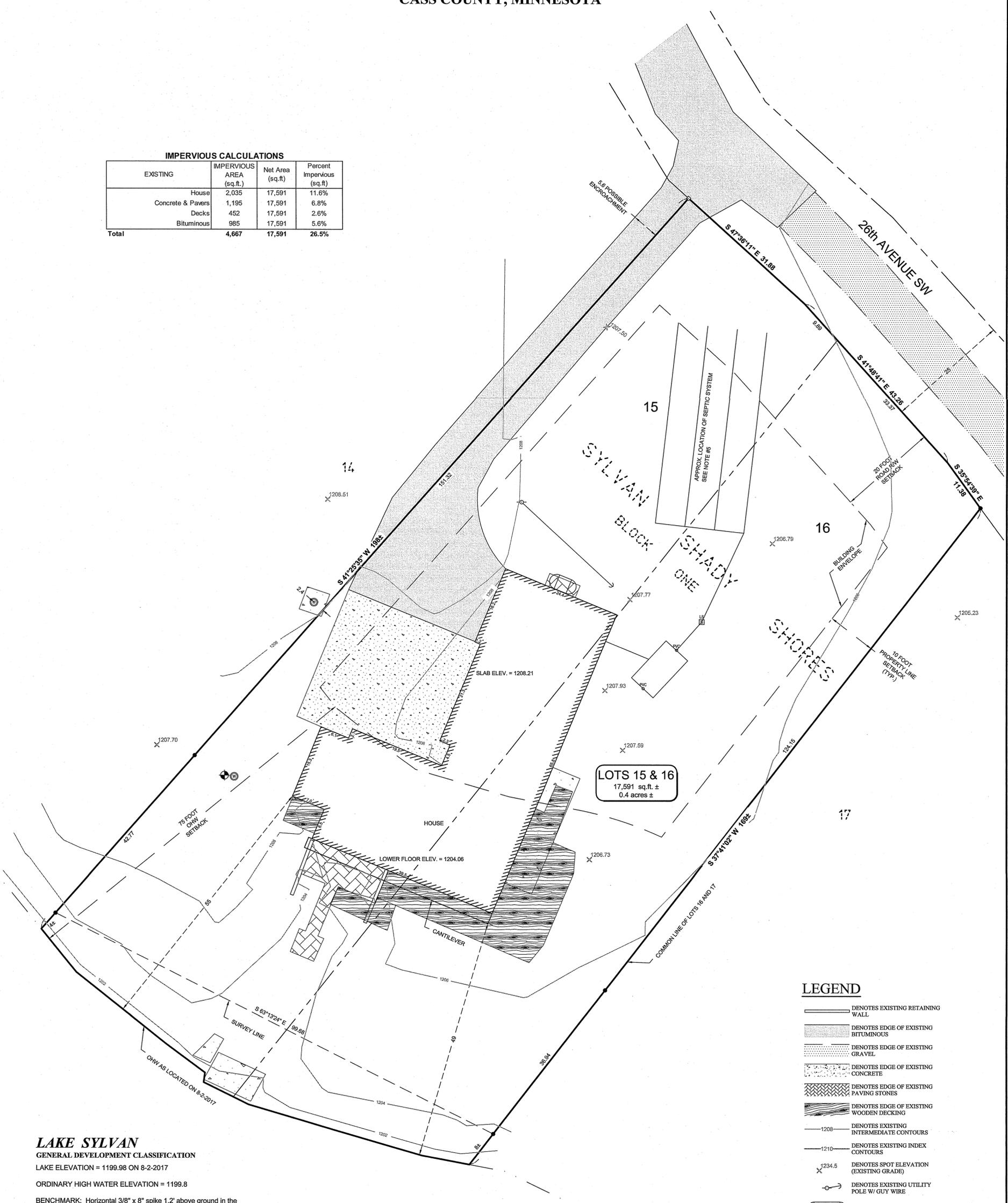


CERTIFICATE OF SURVEY

LOTS 15 AND 16, BLOCK ONE, SYLVAN SHADY SHORES
SECTION 2, TOWNSHIP 133 NORTH, RANGE 30 WEST,
CASS COUNTY, MINNESOTA

IMPERVIOUS CALCULATIONS

EXISTING	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	2,035	17,591	11.6%
Concrete & Pavers	1,195	17,591	6.8%
Decks	452	17,591	2.6%
Bituminous	985	17,591	5.6%
Total	4,667	17,591	26.5%



LAKE SYLVAN
GENERAL DEVELOPMENT CLASSIFICATION
LAKE ELEVATION = 1199.98 ON 8-2-2017
ORDINARY HIGH WATER ELEVATION = 1199.8

BENCHMARK: Horizontal 3/8" x 8" spike 1.2' above ground in the NE side of the same 1.9' red oak described as BM LETTER A, 50' from water's edge, approximately 100' West of concrete outlet dam (south outlet), 24' east of a driveway and 45' NE of NE corner of private cabin at Fire # H2853 (likely Lower Sylvan Rd SW, Pillager); new spike set directly above the old chopped out railroad spike B.M. elev 1201.82 for a 10/25/1995 elevation = 1201.98. However, a 1/4/2012 elevation utilizing GPS/RTK/VRS survey methods = 1202.99

BASED ON NGVD 29 DATUM
INFORMATION OBTAINED FROM MNDNR

NOTES:

- Contour interval as shown = 2 foot. Based on NGVD 29 datum. Contours shown have been obtained using standard survey topographic methodologies. Field located on 8-2-2017.
- Zoning for subject tract = "Shoreland Residential".
- Parcel ID of subject parcel: 41-562-0128.
- The property address of subject parcel: 12385 26th Avenue SW.
- Approximate location of septic system per sketch prepared by LouAnn Maschler, Maschler Septic Consultants, Inc.

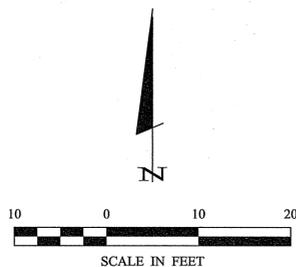
SURVEYOR'S NOTE:

For survey reference information see Certificate of Survey drawing signed by Patrick A. Trotter on January 17, 2008 - Landecker and Associates, Inc. files 071217 & 071219.

LEGEND

- DENOTES EXISTING RETAINING WALL
- DENOTES EDGE OF EXISTING BITUMINOUS
- DENOTES EDGE OF EXISTING GRAVEL
- DENOTES EDGE OF EXISTING CONCRETE
- 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 EXISTING UTILITY POLE W/ GUY WIRE
- DENOTES EXISTING LP TANK
- DENOTES EXISTING WELL
- DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
- DENOTES EXISTING SEPTIC LIFT STATION
- BENCHMARK: HIGH POINT OF WELL
ELEV. = 1209.38
- DENOTES MONUMENT FOUND

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE COMMON LINE OF LOTS 16 AND 17 TO HAVE AN ASSUMED BEARING OF S 37°41'02" W.



SHEET 1 OF 1	CERTIFICATE OF SURVEY			PROJECT MANAGER: CMH	PROJECT No.: 17257	DATE: 8-18-2017	REVISIONS DESCRIPTION	BY	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	 30176 Old Highway #371 Suites 1 & 2 P. O. Box 874 Pequot Lakes, MN 56472 218-568-4940 www.stonemarksurvey.com
	Diane Conroy 12385 26th Avenue SW Pillager, MN 56473			CHECKED BY: CMH	FILE NAME: C17257.dwg	SCALE: HORIZ. 1"=10'				
				DRAWN BY: RJF	FIELD BOOK: BOOK 443 PG. 14	VERT. NONE				