

# CERTIFICATE OF SURVEY

PART OF GOVERNMENT LOT 7,  
SECTION 15, TOWNSHIP 140 NORTH, RANGE 26 WEST,  
CASS COUNTY, MINNESOTA

**THUNDER LAKE**  
GENERAL DEVELOPMENT CLASSIFICATION  
LAKE ELEVATION = 1304.84 ON 10-24-2016  
ORDINARY HIGH WATER ELEVATION = 1305.4  
BENCHMARK: Left end of right abutment above gage on outlet dam. Elevation = 1308.6  
BASED ON NGVD 29 DATUM  
INFORMATION OBTAINED FROM MNDNR

## LEGAL DESCRIPTION PROVIDED BY CLIENT

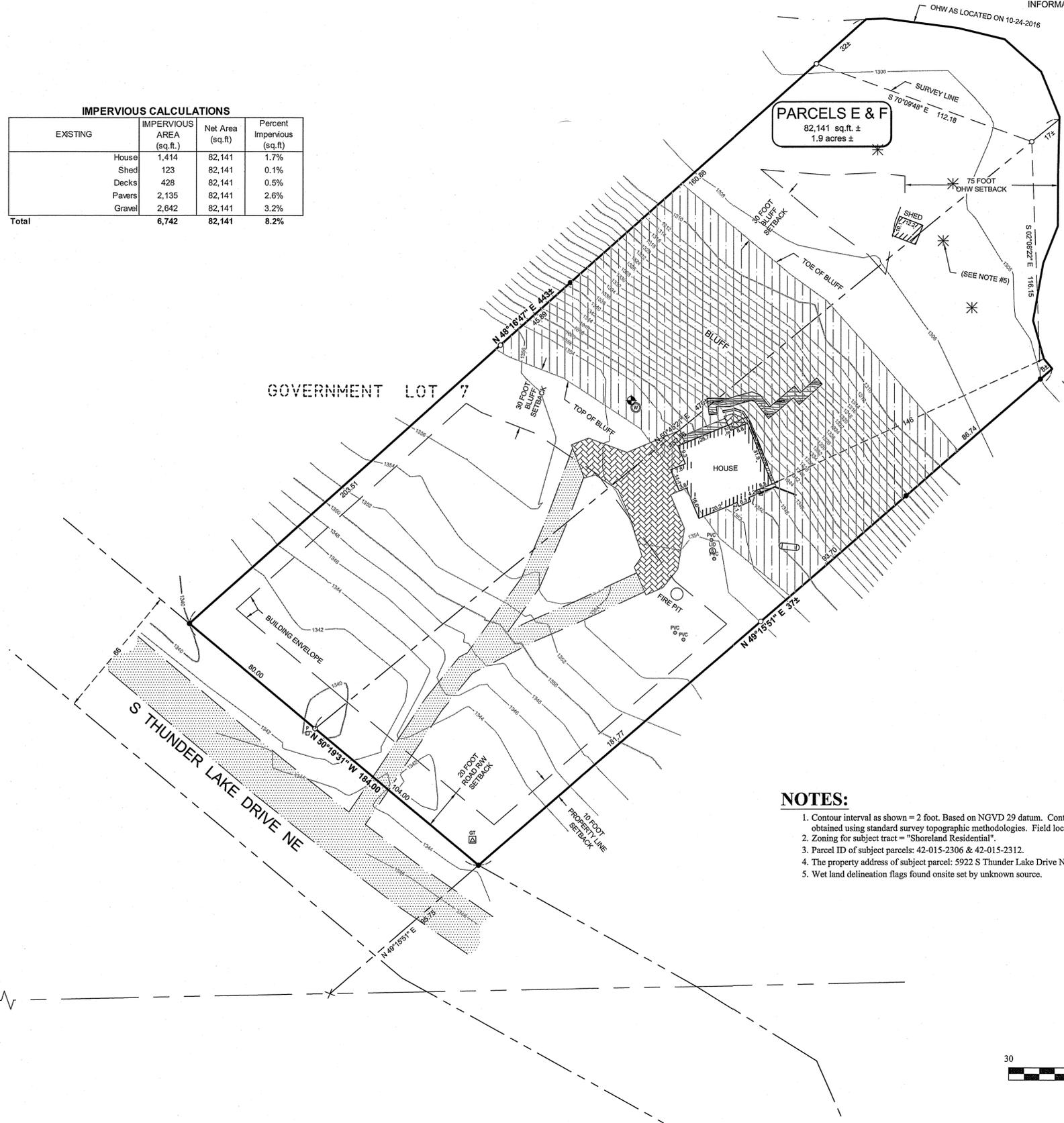
Parcel E  
That part of Government Lot 7, Section 15, Township 140 N, Range 26 W, Cass County, Minnesota, described as follows: Commencing at the Southeast corner of said Government Lot 7; thence North 88 degrees 49 minutes 37 seconds East, assumed bearing, along the South line of said Government Lot 7 a distance of 955.79 feet; thence North 49 degrees 15 minutes 51 seconds East 95.75 feet; thence North 50 degrees 19 minutes 55 seconds West 104.00 feet to the point of beginning of tract to be herein described; thence North 50 degrees 19 minutes 55 seconds West 80.00 feet; thence North 48 degrees 16 minutes 47 seconds East 439.34 feet, more or less, to the shore of Big Thunder Lake; thence Southwesterly along said shore to its intersection with a line bearing North 50 degrees 45 minutes 21 seconds East from the point of beginning; thence South 50 degrees 45 minutes 21 seconds West 473.38 feet, more or less, to the point of beginning.

and  
Parcel F  
That part of Government Lot 7, Section 15, Township 140 N, Range 26 W, Cass County, Minnesota, described as follows: Commencing at the Southeast corner of said Government Lot 7; thence North 88 degrees 49 minutes 37 seconds East, assumed bearing, along the South line of said Government Lot 7 a distance of 955.79 feet; thence North 49 degrees 15 minutes 51 seconds East 95.75 feet to the point of beginning of tract to be herein described; thence North 50 degrees 19 minutes 55 seconds West 104.00 feet; thence North 50 degrees 45 minutes 21 seconds East 473.38 feet, more or less, to the shore of Big Thunder Lake; thence Southeasterly along said shore to its intersection with a line bearing North 49 degrees 15 minutes 51 seconds East from the point of beginning; thence South 49 degrees 15 minutes 51 seconds West 377.25 feet, more or less, to the point of beginning.

IMPERVIOUS CALCULATIONS			
EXISTING	IMPERVIOUS AREA (sq.ft.)	Net Area (sq.ft.)	Percent Impervious (sq.ft.)
House	1,414	82,141	1.7%
Shed	123	82,141	0.1%
Decks	428	82,141	0.5%
Pavers	2,135	82,141	2.6%
Gravel	2,642	82,141	3.2%
<b>Total</b>	<b>6,742</b>	<b>82,141</b>	<b>8.2%</b>

## LEGEND

- DENOTES EXISTING RETAINING WALL
  - DENOTES EDGE OF EXISTING GRAVEL
  - DENOTES EDGE OF EXISTING PAVING STONES
  - DENOTES EDGE OF EXISTING WOODEN DECKING
  - DENOTES BLUFF AREA
  - DENOTES EXISTING INTERMEDIATE CONTOURS
  - DENOTES EXISTING INDEX CONTOURS
  - DENOTES EXISTING GROUND TRANSFORMER
  - DENOTES EXISTING LP TANK
  - DENOTES EXISTING PHONE PEDESTAL & PHONE BOX
  - DENOTES EXISTING WELL
  - DENOTES EXISTING SEPTIC VENT, SEPTIC CLEANOUT, & SEPTIC TANK LID
  - BENCHMARK:**  
HIGH POINT OF WELL  
ELEV. = 1355.13
  - DENOTES CALCULATED POSITION
  - DENOTES MONUMENT FOUND
  - DENOTES IRON MONUMENT SET MARKED BY LICENSE No. 44881
- ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE SOUTH LINE OF GOVERNMENT LOT 7 TO HAVE AN ASSUMED BEARING OF N 88° 49' 37" E.



## 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 10-24-2016.
- Zoning for subject tract = "Shoreland Residential".
- Parcel ID of subject parcels: 42-015-2306 & 42-015-2312.
- The property address of subject parcel: 5922 S Thunder Lake Drive NE.
- Wet land delineation flags found onsite set by unknown source.

30176 Old Highway #371  
Suite 2  
P. O. Box 874  
Pequot Lakes, MN 56472  
218-568-0940  
www.stonemat.com

DATE: 11/8/16  
LIC. NO. 44881

DATE: 11-08-2016  
SCALE: 1"=30'  
HORZ: NONE  
VERT: NONE

PROJECT NO.: 16390  
FILE NAME: C:\16390.dwg  
FIELD BOOK: BOOK 435 PG. 77

CERTIFICATE OF SURVEY  
SHEET 1 of 1

Peter Jacobson  
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