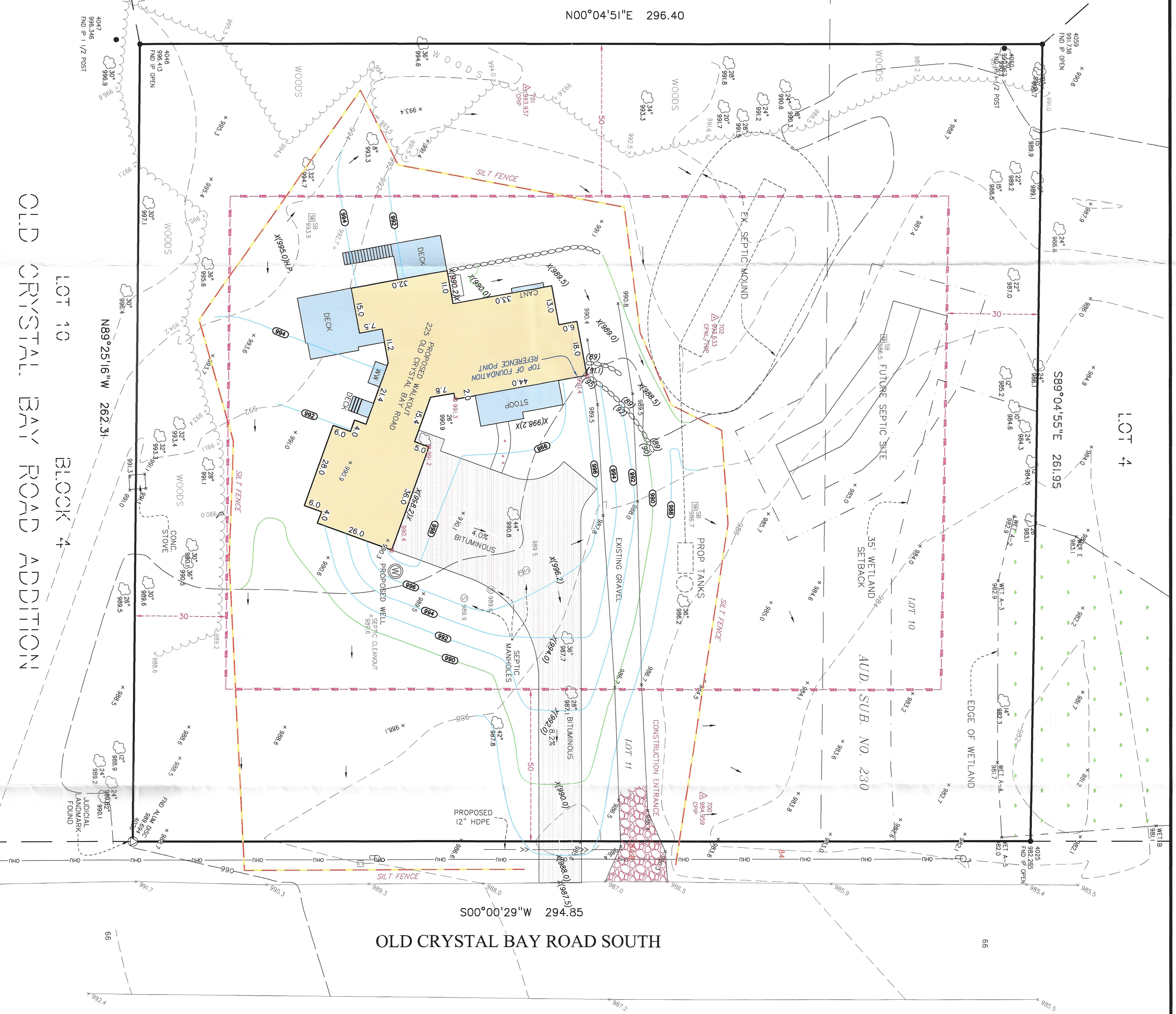


OLD CRYSTAL BAY ROAD SECOND ADDITION

LOT 3
 BLOCK 4
 N00°04'51"E 296.40



OLD CRYSTAL BAY ROAD SOUTH

S00°00'29"W 294.85

LOT 9
 BLOCK 4
 OLD CRYSTAL BAY ROAD ADDITION
 N89°25'16"W 262.31

LOT 4
 BLOCK 4
 OLD CRYSTAL BAY ROAD ADDITION
 S89°04'55"E 261.95

FIELD CREW	NO.	BY	DATE	REVISION
ALL	1	EMW	7/20/2018	EROSION CONTROL
DRAWN	2	EMW	7/23/2018	ADDED SEPTIC SITES
CHKD	3	EMW	7/23/2018	ADJUSTED PRO. DIMENSIONS
CHECKED	4	EMW	8/7/2018	CITY COMMENTS
DATE				
6-26-18				

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I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly Licensed Land Surveyor under the laws of the State of Minnesota.
 Dated this 9th day of July, 2018.
 David B. Runkhahn, PLS
 Minnesota License No. 40344
 drunkhahn@sathre.com

ENGINEERS SURVEYORS
 DESIGNS PLANNERS
SATHRE-BERGQUIST, INC.
 160 SOUTH BROADWAY WAZZATA, MN. 55391 (952) 476-8000
 WWW.SATHRE.COM

TWP:117-RGE-23-SEC:04
 Hennepin County
ORONO, MINNESOTA

CERTIFICATE OF SURVEY
 PREPARED FOR:
GORDON JAMES CONSTRUCTION
 225 Old Crystal Bay Rd
 RPT515-000042 / NEW HOLE

DESCRIPTION OF PROPERTY SURVEYED

(PER CERTIFICATE OF TITLE NO. 1106747)

That part of Lot 10 lying South of the North 371.35 feet of said Lot 10 and East of the West 685.18 feet of said lot 10. That part of Lot 11 lying East of the West 685.18 feet of said Lot 11, Auditor's Subdivision No. 230, Hennepin County, Minnesota.

NOTES

1. **Site Address:** 225 Old Crystal Bay Road South, Orono, MN. 55356
 PID: 04-117-23-24-00-02
2. **Flood Zone Information:** This property is contained in Zone X (Areas outside the 1-percent annual chance floodplain, areas of 1% annual chance sheet flow flooding where average depths are less than 1 foot, areas of 1% annual chance stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 1% annual chance flood by levees. No Base Flood Elevations or depths are shown within this zone. Insurance purchase is not required in these zones) per Flood Insurance Rate Map, Community Panel No. 27055C0301E, effective date of September 2, 2004.
3. **Parcel Area Information:** The Gross land area is 77,486.4 square feet or 1.77 +/- acres.
4. **Benchmark:** Elevations are based on MNDOT GEODETIC MONUMENT #81490 (2713 AD) ELEVATION= 1030.625 feet (NAVD83)
5. **Zoning Information:** The current zoning for the subject property is RR-21B per the City of Orono zoning map. The setback, height, and floor space area restrictions for said zoning designation were obtained from the City of Orono web site.
 SETBACKS: Front = 50 Feet
 Side = 30 Feet
 Rear = 50 Feet
6. We have shown the location of utilities on the surveyed property by observed evidence only.
7. The wetland delineation was performed by Kjothang Environmental Services on May 9th, 2015, and the delineation flags were located on May 8th, 2015.

Proposed Elevations

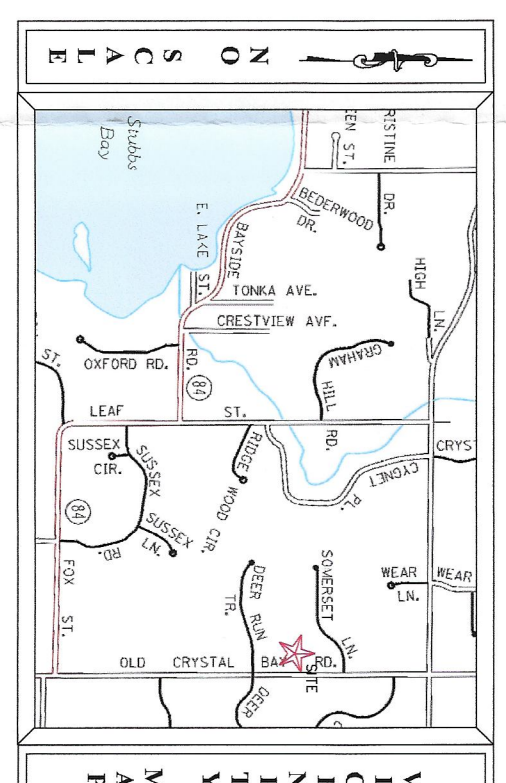
Proposed Top of Foundation Elevation	= 996.35
Proposed Top of Foundation Elevation	= 998.00
Proposed Basement Floor Elevation	= 999.00

Proposed Coverage

Lot Area	= 77,486.57
House Area	= 4,534 S.F.
Lot Coverage	= 5.85%

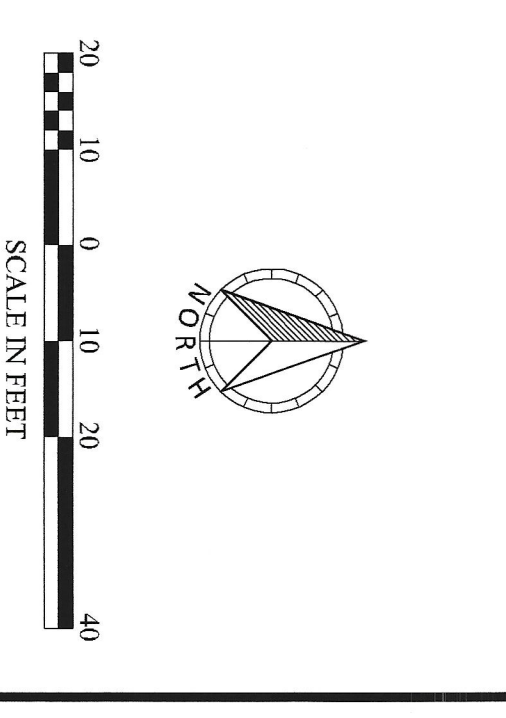
Proposed Excavation Volumes

Excavation Volume	= 325 Cu. Yd.
Fill Volume	= 2,399 Cu. Yd.
Net Volume	= 2,114 Cu. Yd. Filled



SURVEY LEGEND

CAST IRON MONUMENT	WOE WALKOUT ELEVATION
CATCH BASIN	FIRE FIRST FLOOR ELEVATION
FLARED END SECTION	GFE GARAGE FLOOR ELEVATION
GATE VALVE	TOP TOP OF FOUNDATION ELEV.
GUY WIRE	LOE LOWEST OPENING ELEV.
HYDRANT	CONCRETE
CONCRETE	CONCRETE
SURVEY MONUMENT SET	CONTOUR EXISTING
SURVEY MONUMENT FOUND	CONTOUR PROPOSED
SURVEY CONTROL POINT	GUARD RAIL
▲ SURVEY CONTROL POINT	ELECTRIC METER
▲ SURVEY CONTROL POINT	⊙ GAS METER
▲ SURVEY CONTROL POINT	⊙ GAS VALVE
▲ SURVEY CONTROL POINT	⊙ HAND HOLE
▲ SURVEY CONTROL POINT	⊙ SOIL BORING
▲ SURVEY CONTROL POINT	⊙ TREE DECIDUOUS
▲ SURVEY CONTROL POINT	⊙ TREE CONIFEROUS
▲ SURVEY CONTROL POINT	⊙ TELEPHONE MANHOLE
▲ SURVEY CONTROL POINT	⊙ TELEPHONE PEDESTAL
▲ SURVEY CONTROL POINT	⊙ TRAFFIC SIGNAL
▲ SURVEY CONTROL POINT	⊙ UTILITY MANHOLE
▲ SURVEY CONTROL POINT	⊙ UTILITY UNDERGROUND
▲ SURVEY CONTROL POINT	⊙ WATERMAIN
▲ SURVEY CONTROL POINT	⊙ WELL
▲ SURVEY CONTROL POINT	BITUMINOUS
▲ SURVEY CONTROL POINT	BUILDING SETBACK LINE
▲ SURVEY CONTROL POINT	CIVIL
▲ SURVEY CONTROL POINT	CABLE TV
▲ SURVEY CONTROL POINT	CONCRETE CURB
▲ SURVEY CONTROL POINT	CONCRETE
▲ SURVEY CONTROL POINT	CONTOUR EXISTING
▲ SURVEY CONTROL POINT	CONTOUR PROPOSED
▲ SURVEY CONTROL POINT	GUARD RAIL
▲ SURVEY CONTROL POINT	ELECTRIC METER
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FILE NO. 31386-021
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