

**NOTES**

1) THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON NOVEMBER 9, 2017 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THAT TIME.

2) SOUNDING DEPTHS ARE REFERENCED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85) LOW WATER DATUM ELEVATION 601.1 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED NOAA GAGE LOCATED AT DULUTH, MINNESOTA (9099064). DEPTHS ARE MEASURED USING A ROSS LABORATORIES MODEL 825C PORTABLE SURVEY SOUNDER.

3) HORIZONTAL POSITIONING IS DETERMINED USING THE REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS). CORRECTIONS ARE PROVIDED BY THE MINNESOTA DEPARTMENT OF TRANSPORTATION CONTINUOUSLY OPERATING REFERENCE STATION (MNCORS) NETWORK. THE GPS RECEIVER IS MANUFACTURED BY TRIMBLE.

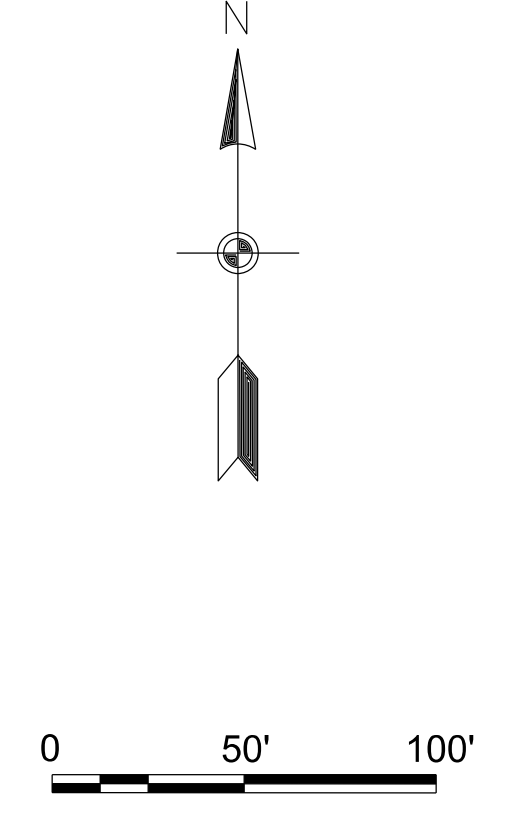
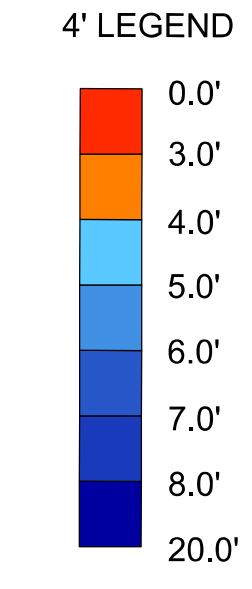
4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MINNESOTA STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2201), NORTH AMERICAN DATUM 1983 (NAD 83), US SURVEY FOOT.

5) THE LOCATION OF NAVIGATION BUOYS REPRESENTS THE GENERAL LOCATION ON THE DATE OF THE SURVEY AND CANNOT BE CONSIDERED FOR NAVIGATION.

6) THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING CHARTS AND ARE OUTDATED AND INACCURATE.

**LEGEND**

- SHORELINE
- 4 FT DEPTH CONTOUR
- GPS CONTROL POINT



 US Army Corps of Engineers	
PROJECT: MCQUADE SAFE HARBOR MINNESOTA SHEET IDENTIFICATION: MQD 01	CONDITION OF CHANNEL: NOVEMBER 2017
PROJECT NO.: 680LAKE AVE/MS SOUTH DULUTH, MN 55802	DRAWN BY: [Name] CHECKED BY: [Name] DATE: [Date]
CONTRACT NO.: [Number] DATE: [Date]	FILE NAME: [Name] DRAWING DATE: [Date]
SCALE: 1" = 40' IMAGE SOURCE: [Source]	DATE: [Date] DESCRIPTION: [Description]
DATE: [Date] DESCRIPTION: [Description]	DATE: [Date] DESCRIPTION: [Description]