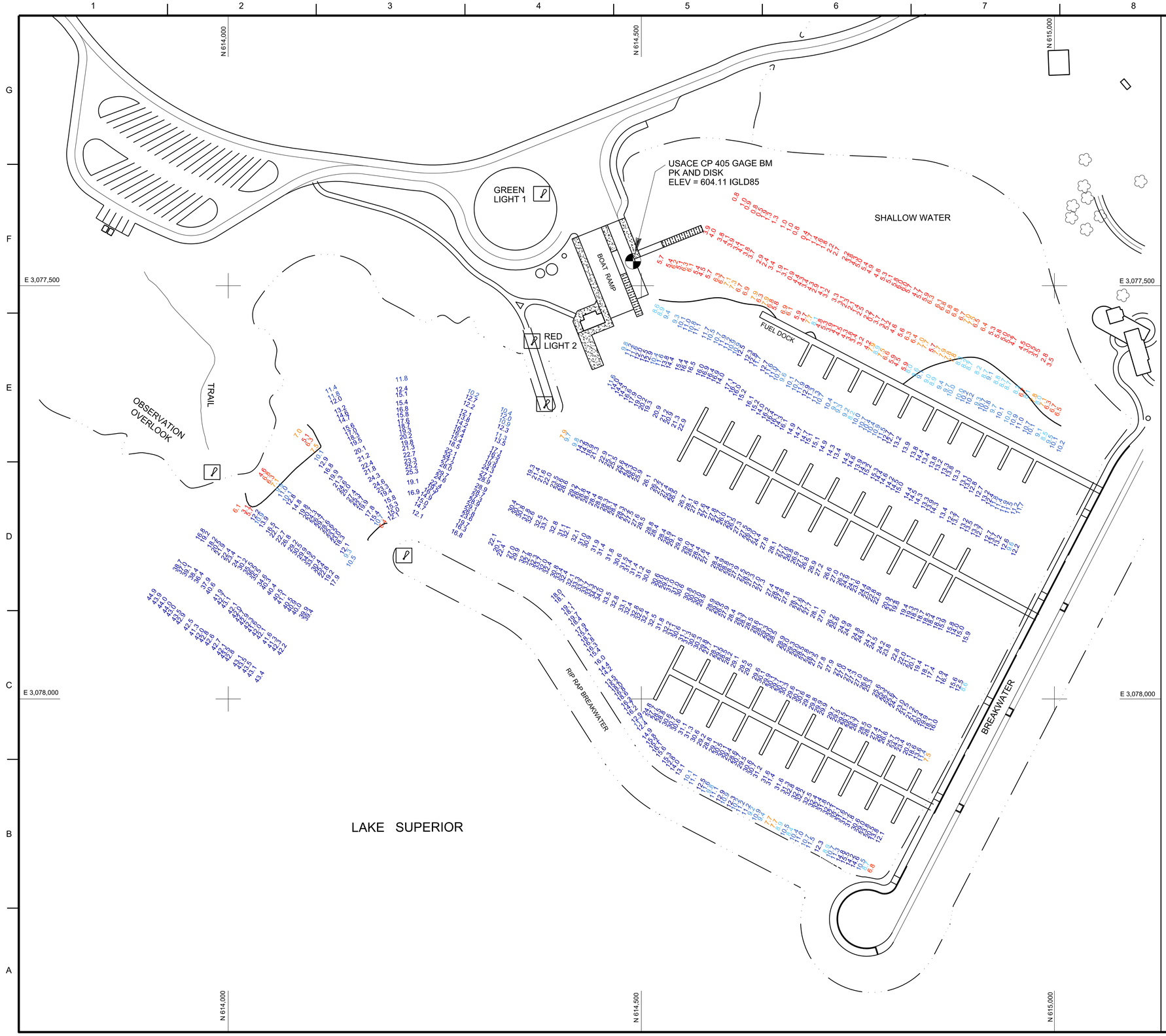

NOTES

1) THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON NOVEMBER 8, 2019 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 WERE OBTAINED WITH RTK GPS VALUES. DEPTHS ARE MEASURED USING A ROSS LABORATORIES MODEL 825C PORTABLE SURVEY SOUNDER.

3) HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC (RTK) GLOBAL NAVIGATION SATELLITE SYSTEM (GNSS) CORRECTIONS FROM A BASE STATION LOCATED AT USACE CONTROL POINT 405, A PK NAIL ON THE NORTHERLY END OF A CONCRETE DOCK WEST OF THE BOAT RAMP.

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 PROJECT DEPTH FOR THIS AREA IS 8'.

6) THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING CHARTS AND ARE OUTDATED AND INACCURATE.

LEGEND

- LIGHTED BEACON
- SHORELINE
- PROJECT DEPTH CONTOUR

8' LEGEND

- 0.0'
- 7.0'
- 8.0'
- 9.0'
- 10.0'
- 30.0'

0 60' 120'

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

SURVEYED BY:	DRAWING DATE:
KRC / ATA	14-Jan-20
DRAWN BY:	DATE OF SURVEY:
KRC	08-Nov-19
REVIEWED BY:	CONTRACT NO.:
S. BROSSART	
APPROVED BY:	DRAWING NUMBER:
SIZE: ANSI D	FILE NAME: SILVHDTC191.dgn

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
477 MICHIGAN AVE
DETROIT, MI 48226

DULUTH AREA OFFICE
600 LAKE AVENUE SOUTH
DULUTH, MN 55802

SILVER BAY HARBOR OF REFUGE
MINNESOTA

CONDITION OF CHANNEL
NOVEMBER 2019

SHEET ID

SIL 01