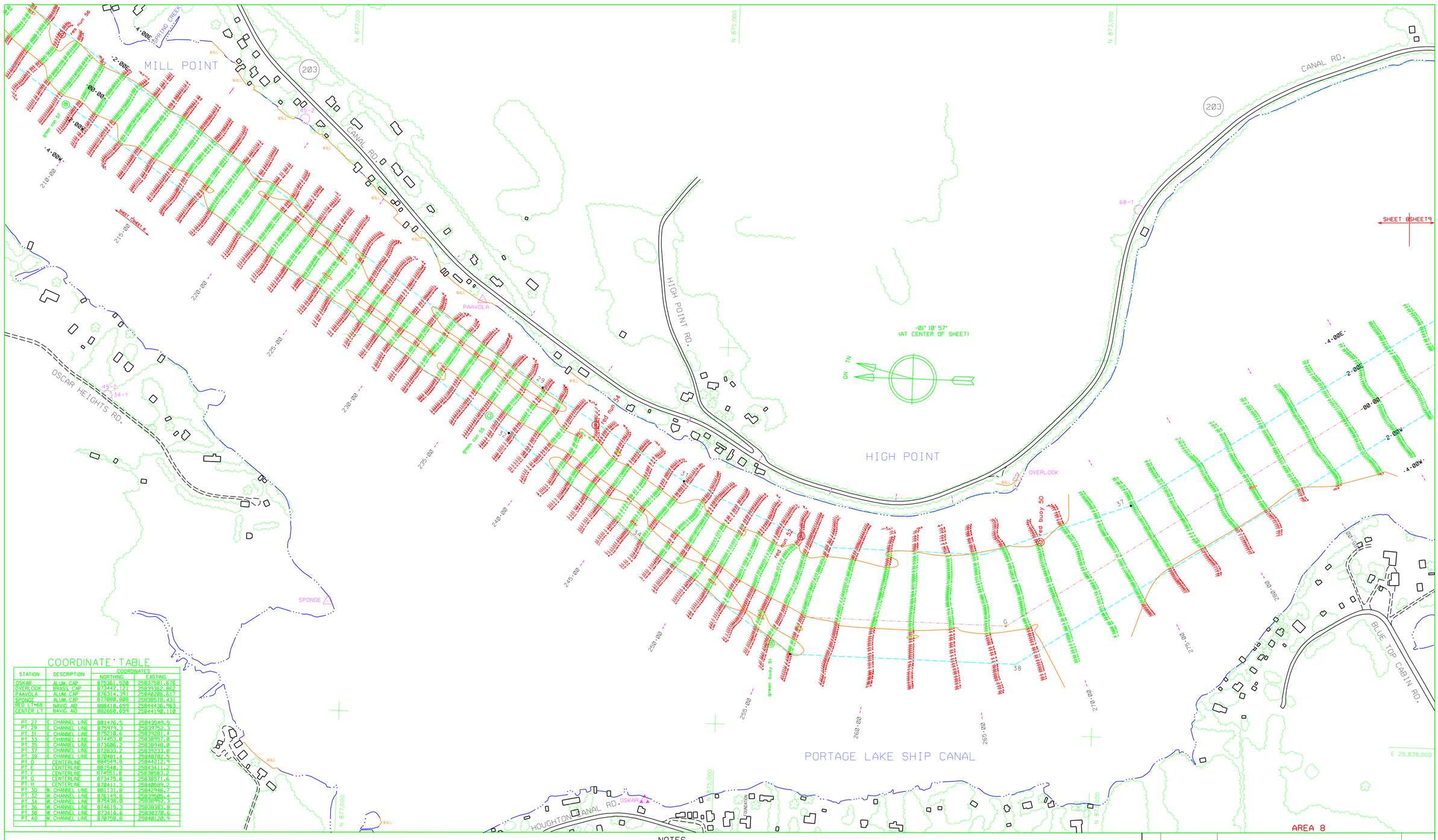


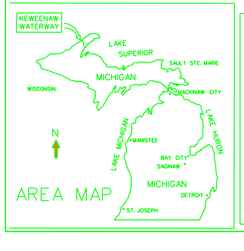
COORDINATE TABLE

STATION	DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
OSKAR	ALUM. CAP	875361.520	25837581.676
OVERLOOK	BRASS CAP	873442.121	25839362.862
PAAVOLA	ALUM. CAP	876374.391	25840208.617
SPONGE	ALUM. CAP	877089.808	25838578.431
RED LT+68	NAVIG. AID	880418.659	25844436.963
CENTER LT	NAVIG. AID	882668.659	25844198.110
PT. 27	E. CHANNEL LINE	881476.5	25843549.5
PT. 29	E. CHANNEL LINE	875979.3	25839752.3
PT. 31	E. CHANNEL LINE	875218.6	25839581.4
PT. 33	E. CHANNEL LINE	874453.0	25838957.0
PT. 35	E. CHANNEL LINE	873806.2	25838948.0
PT. 37	E. CHANNEL LINE	872833.2	25839233.8
PT. 39	E. CHANNEL LINE	870481.4	25840782.5
PT. D	CENTERLINE	884549.8	25844212.9
PT. E	CENTERLINE	881548.3	25843411.2
PT. F	CENTERLINE	874551.8	25838893.2
PT. G	CENTERLINE	873475.0	25838571.6
PT. H	CENTERLINE	870411.3	25840583.2
PT. 30	W. CHANNEL LINE	881131.8	25842946.7
PT. 32	W. CHANNEL LINE	876149.8	25839589.4
PT. 34	W. CHANNEL LINE	875438.8	25838952.3
PT. 36	W. CHANNEL LINE	874615.3	25838383.8
PT. 38	W. CHANNEL LINE	873416.6	25838370.6
PT. 40	W. CHANNEL LINE	870750.8	25840120.3

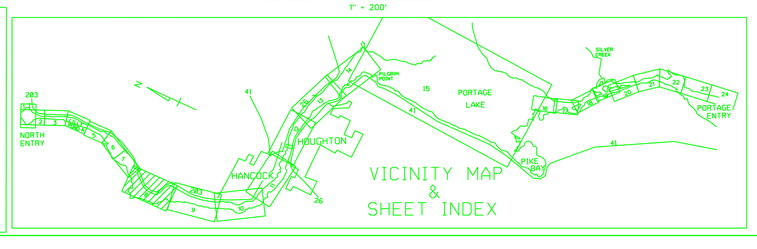
COMBINED GRID SCALE FACTOR = 1.00002258
GRID DIST. DIVIDED BY COMBINED GRID SCALE FACTOR = GROUND DIST.

200 0 200 400 600

1" = 200'



AREA MAP



VICINITY MAP & SHEET INDEX

NOTES

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

2) ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION 601.1 ABOVE MEAN SEA LEVEL, I.G.L.D. 1985.

3) PROJECT DEPTHS FOR THIS AREA ARE 25 FT.

4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD 83), US 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 SURVEY SHOWN WAS CONDUCTED BY D.C.GOLTZ, PARTY CHIEF DURING 31 AUG., 2010, USING D.G.P.S. POSITIONING, AN ODOM CV3 SOUNDER, AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

LEGEND

- HORIZONTAL CONTROL POINT G.P.S.
- HORIZONTAL CONTROL POINT
- DREDGING LIMIT TURNING POINT
- CHANNEL LINE TURNING POINT
- CENTER LINE 00·00
- CHANNEL LINE
- DREDGING LIMIT
- SHORELINE
- PROJECT DEPTH CONTOUR
- 15·00 CENTER LINE STATIONS

NO.	DATE	REVISION	BY

U.S. ARMY ENGINEER DISTRICT, DETROIT
CORPS OF ENGINEERS
DETROIT, MICHIGAN

KEWEENAW - WATERWAY
MICHIGAN

CONDITION SURVEY -AUGUST 2010

DULUTH AREA OFFICE — DULUTH, MN

DESIGNED BY:*
DRAWN BY:*
CHECKED BY:*
REVIEWED BY:*
SUBMITTED BY:*
CHIEF, PROJ. OPNS. SEC.
APPROVAL RECOMMENDED:*
CHIEF, OTS BRANCH
DATE
APPROVED:*
CHIEF, CONST.-OPNS. DIVN.
(* AS REQUIRED BY ENGINEERING CIRCULAR 1110-1-76)
SCALE AS SHOWN 1 " = 200 '
CADD FILE NAME KWZ08C10.DGN
DRAWING NUMBER
SHEET 1 OF 1

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

INVITATION NO. DACW.

KW 7570/08-17