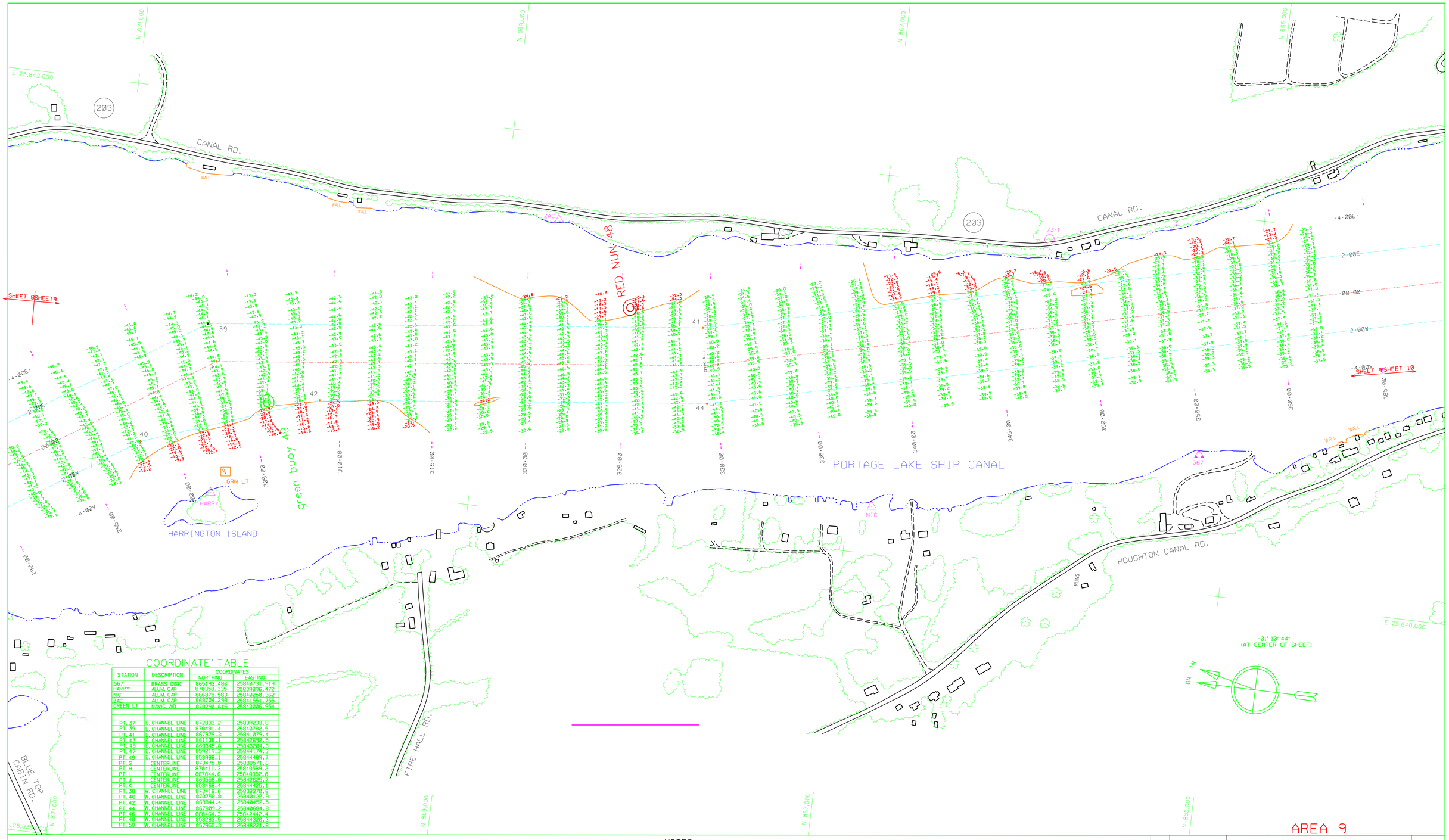


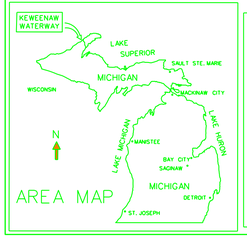
COORDINATE TABLE

STATION	DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
567	BRASS DISK	865193.486	25840731.919
HARRY	ALUM. CAP	870358.935	25839896.472
NIC	ALUM. CAP	866878.583	25840258.362
ZAC	ALUM. CAP	868704.290	25841551.755
GREEN LT	NAVIG. AID	870290.615	25840206.554
PT. 37	E. CHANNEL LINE	872833.2	25839293.8
PT. 39	E. CHANNEL LINE	870481.4	25840782.5
PT. 41	E. CHANNEL LINE	867879.3	25841879.4
PT. 43	E. CHANNEL LINE	861138.1	25842692.5
PT. 45	E. CHANNEL LINE	860345.8	25842284.3
PT. 47	E. CHANNEL LINE	859219.3	25844174.3
PT. 49	E. CHANNEL LINE	858988.1	25844489.7
PT. G	CENTERLINE	873476.0	25838871.6
PT. H	CENTERLINE	870411.3	25840589.2
PT. I	CENTERLINE	867844.6	25840882.0
PT. J	CENTERLINE	860958.0	25842625.7
PT. K	CENTERLINE	858488.4	25844429.1
PT. 38	W. CHANNEL LINE	873416.6	25838370.6
PT. 40	W. CHANNEL LINE	870758.8	25840128.9
PT. 42	W. CHANNEL LINE	869844.4	25840452.5
PT. 44	W. CHANNEL LINE	867809.2	25840684.8
PT. 46	W. CHANNEL LINE	860464.3	25842442.4
PT. 48	W. CHANNEL LINE	858283.5	25844320.3
PT. 50	W. CHANNEL LINE	857955.3	25846221.8

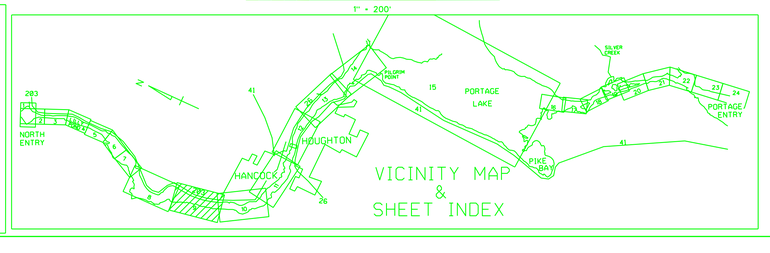
AREA 9

COMBINED GRID SCALE FACTOR = 1.00001739
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

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 DC., 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

DESIGNED BY:*
DRAWN BY:*
CHECKED BY:*
REVIEWED BY:*
SUBMITTED BY:*
CHIEF, PROJ. OPNS. SEC.
APPROVED:*
CHIEF, CONST.-OPNS. DIVN.
(* AS REQUIRED BY ENGINEERING CIRCULAR 1110-1-76)

KEWEENAW - WATERWAY
MICHIGAN

CONDITION SURVEY - SEPTEMBER 2010

DULUTH AREA OFFICE — DULUTH, MN

APPROVAL RECOMMENDED:*
CHIEF, OTS BRANCH — DATE

SCALE AS SHOWN 1 " = 200 '
CADD FILE NAME KWM09C10.DGN
DRAWING NUMBER
SHEET 1 OF 1

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

INVITATION NO. DACW.

KW 7570/09-23