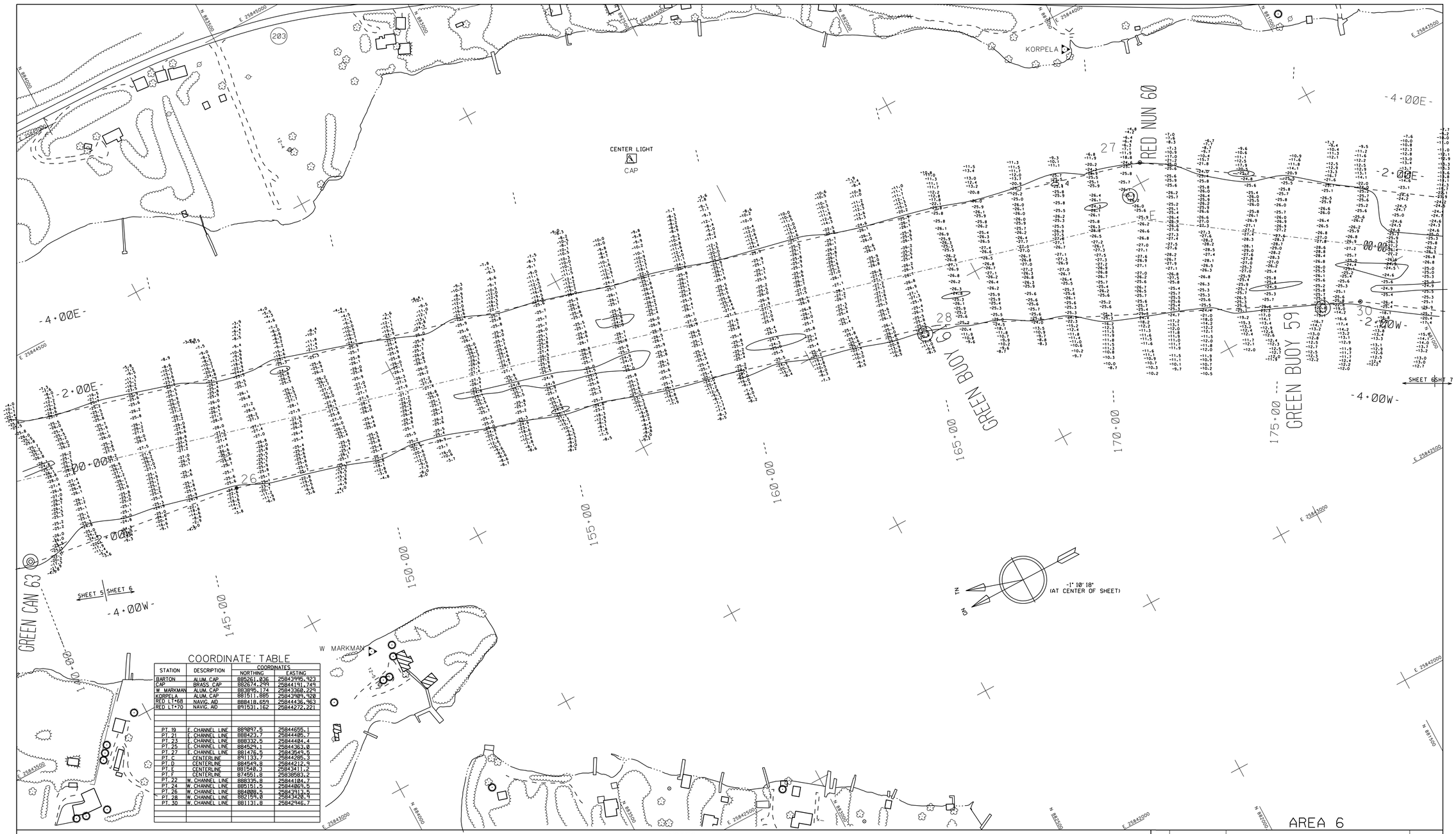
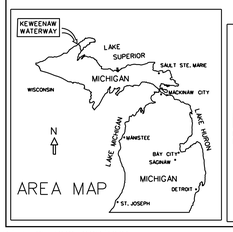


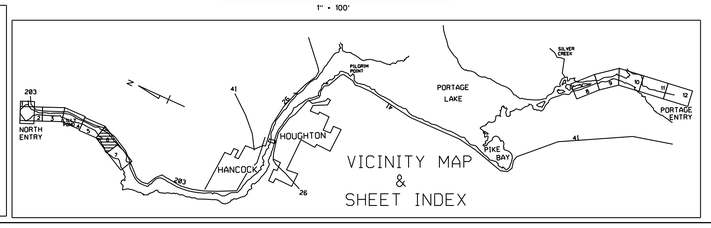
COORDINATE TABLE

STATION	DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
BARTON	ALUM. CAP	882261.036	25843995.923
CAP	BRASS CAP	882674.299	25844191.749
W MARKMAN	ALUM. CAP	883895.174	25843368.229
KORPELA	ALUM. CAP	881511.885	25843909.920
RED LT*68	NAVIG. AID	888418.659	25844436.963
RED LT*70	NAVIG. AID	891531.162	25844272.221
PT. 19	E. CHANNEL LINE	889097.5	25844655.1
PT. 21	E. CHANNEL LINE	888423.7	25844485.7
PT. 23	E. CHANNEL LINE	888332.5	25844404.4
PT. 25	E. CHANNEL LINE	884529.1	25844363.8
PT. 27	E. CHANNEL LINE	881476.5	25843649.5
PT. C	CENTERLINE	891133.7	25844285.3
PT. D	CENTERLINE	884549.8	25844212.9
PT. E	CENTERLINE	881540.3	25843411.2
PT. F	CENTERLINE	874551.8	25839583.2
PT. 22	W. CHANNEL LINE	888335.8	25844104.7
PT. 24	W. CHANNEL LINE	885151.5	25844063.5
PT. 26	W. CHANNEL LINE	884088.5	25843913.5
PT. 28	W. CHANNEL LINE	882159.8	25843428.9
PT. 30	W. CHANNEL LINE	881131.8	25842946.7

GRID SCALE FACTOR = 1.00000461
GRID DIST. DIVIDED BY GRID SCALE FACTOR = GROUND DIST.

100 0 100 200 300
1" = 100'





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 13 SEPT., 2006, USING D.G.P.S. POSITIONING, AN INNERSPACE 448 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- SEPTEMBER 2006

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 " = 100 '
CADD FILE NAME KW2006C06.DGN
DRAWING NUMBER
SHEET 1 OF 1

DATE OF PHOTOGRAPHY
20 AUGUST 1991 12:29 P.M.

THIS PLAN ACCOMPANIES CONTRACT NO.
MODIFICATION NO.

INVITATION NO. DACW.

KW 7570/06-33