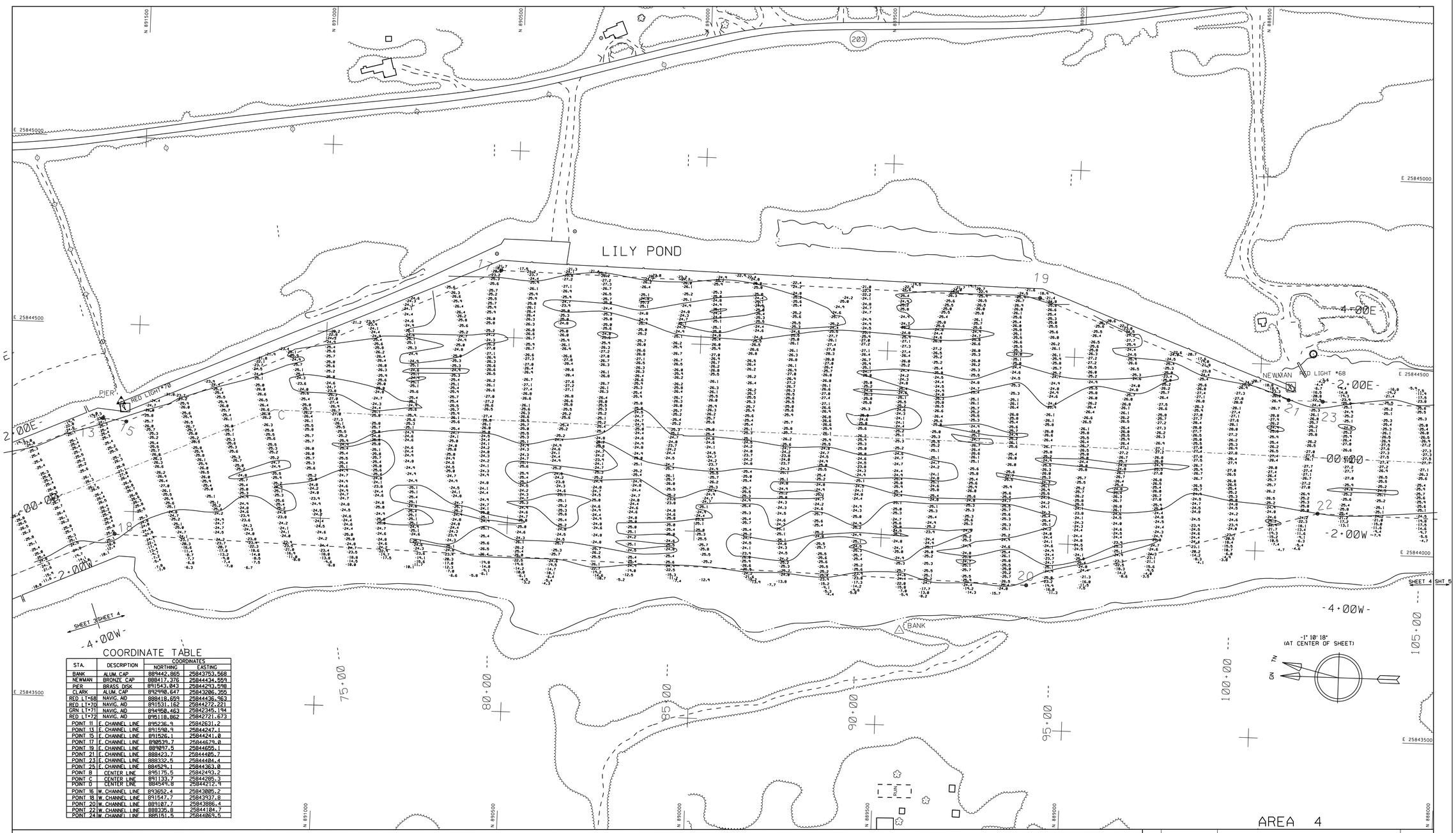
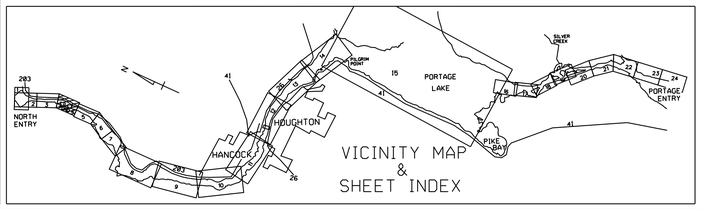


COORDINATE TABLE

STA.	DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
BANK	ALUM. CAP	889442.865	25843753.568
NEWMAN	BRONZE CAP	888417.376	25844434.559
PIER	BRASS DISK	891543.043	25844293.598
CLARK	ALUM. CAP	892998.647	25843206.355
RED LT*68	NAVIG. AID	888418.659	25844436.963
RED LT*70	NAVIG. AID	891531.182	25844272.221
GRN LT*71	NAVIG. AID	894950.463	25842349.194
RED LT*72	NAVIG. AID	895118.862	25842721.673
POINT 11	E. CHANNEL LINE	895236.9	25842631.2
POINT 13	E. CHANNEL LINE	891598.9	25844247.1
POINT 15	E. CHANNEL LINE	891526.1	25844241.0
POINT 17	E. CHANNEL LINE	890539.7	25844679.0
POINT 19	E. CHANNEL LINE	889097.5	25844655.1
POINT 21	E. CHANNEL LINE	888423.7	25844405.7
POINT 23	E. CHANNEL LINE	888332.5	25844404.4
POINT 25	E. CHANNEL LINE	884529.1	25844363.0
POINT B	CENTER LINE	895175.5	25842493.2
POINT C	CENTER LINE	891133.7	25844295.3
POINT D	CENTER LINE	884549.8	25844212.9
POINT 16	W. CHANNEL LINE	893652.4	25843005.2
POINT 18	W. CHANNEL LINE	891547.7	25843537.8
POINT 20	W. CHANNEL LINE	889107.7	25843886.4
POINT 22	W. CHANNEL LINE	888335.8	25844104.7
POINT 24	W. CHANNEL LINE	885151.5	25844063.5

U.S. SURVEY FOOT (USED)
GRID SCALE FACTOR = 1.00000979
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 12 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

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)

APPROVAL RECOMMENDED:*
CHIEF, DTS BRANCH
DATE

KEWEENAW - WATERWAY
MICHIGAN

CONDITION SURVEY - SEPTEMBER 2006

DULUTH AREA OFFICE — DULUTH, MN

SCALE AS SHOWN 1" = 100'
CADD FILE NAME KW2O4C06.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 7570/04-56