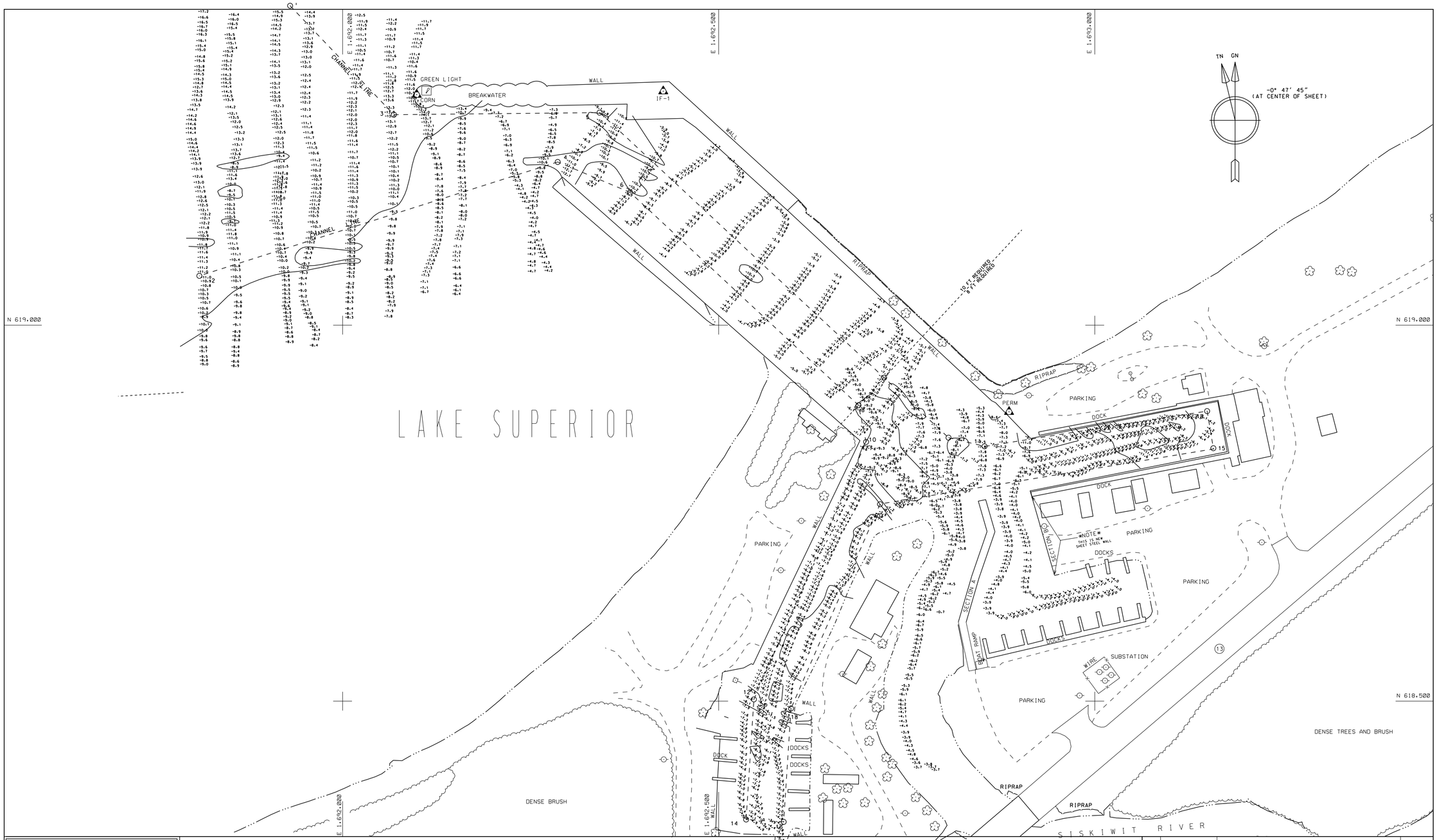

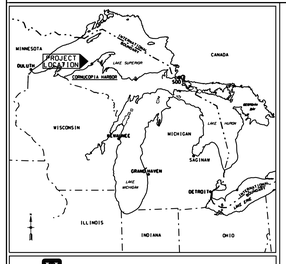

US Army Corps of Engineers Detroit District

LOCATION MAP

SCALE OF MILES

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 8 & 10 FT.

4) THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE WISCONSIN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE (4801). 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 29 AUG. 2007, USING D.G.P.S. POSITIONING, AN INNERSPACE 448 SOUNDER, AND A HYPACK AUTOMATED HYDROGRAPHIC SURVEY SYSTEM.

HORIZONTAL DATUM BASED ON WISCONSIN STATE PLANE COORDINATE SYSTEM, WISCONSIN LAMBERT PROJECTION, NORTH ZONE, NORTH AMERICAN DATUM 1983 (NAD 83).

SURVEY CONTROL

STA.	DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
CORN	BRASS DISK	619306.51	1692098.54
IF-1	BRASS DISK	619311.07	1692426.29
PERM	BRASS DISK	618884.79	1692886.11
WOOT	ALUM DISK	618285.24	1692858.62
NAV. AID	GREEN LIGHT	619309.06	1692111.31

50 0 50 100 150

1" = 50'

COMBINED GRID SCALE FACTOR = 1.00001809

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

CHANNEL CONTROL

DESCRIPTION	COORDINATES NORTHING	COORDINATES EASTING
POINT 1	619424.7	1691930.2
POINT 2	619065.6	1691809.5
POINT 3	619279.9	1692068.2
POINT 4	619217.0	1692286.0
POINT 5	619282.6	1692341.6
POINT 6	619176.5	1692382.2
POINT 7	618930.3	1692720.0
POINT 8	618893.6	1692685.9
POINT 9	618850.4	1692805.6
POINT 10	618844.7	1692696.0
POINT 11	618836.0	1692853.5
POINT 12	618502.4	1692546.8
POINT 13	618885.7	1693149.4
POINT 14	618342.7	1692536.5
POINT 15	618836.4	1693157.7
POINT 16	618339.5	1692586.4
POINT 18	618490.4	1692596.2
POINT 20	618762.0	1692714.5

LEGEND

- HORIZONTAL CONTROL POINT
- DREDGING LIMIT TURNING POINT
- NO. CHANNEL LINE TURNING POINT
- NO. HARBOR LINE TURNING POINT
- HARBOR LINE
- CHANNEL LINE
- DREDGING LIMIT
- SHORELINE
- PROJECT DEPTH CONTOUR

NO.	DATE	REVISION	BY

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

CORNUCOPIA HARBOR
WISCONSIN
CONDITION SURVEY- AUGUST 2007

DULUTH AREA OFFICE — DULUTH, MN

DESIGNED BY:
DRAWN BY:
CHECKED BY:
REVIEWED BY:
SUBMITTED BY:
CHIEF, PROJ. OPNS. SEC.
APPROVED:
CHIEF, CONST.-OPNS. DIVN.

APPROVAL RECOMMENDED:
CHIEF, OTS BRANCH
DATE

SCALE AS SHOWN 1' = 50'
CADD FILE NAME Corn07C.DGN
DRAWING NUMBER
SHEET 1 OF 1

CORN7570/88