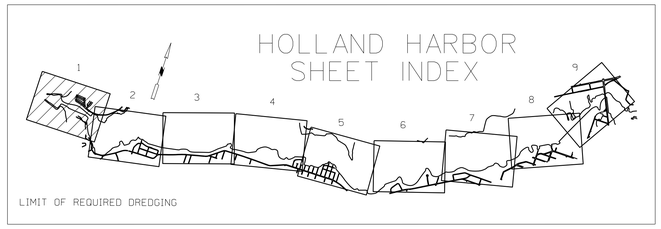
GRID NORTH
TRUE NORTH
-1°-15'-18.51"

GRID SCALE FACTOR: 0.99990877
GRID DIST. DIVIDED BY GRID SCALE FACTOR = GROUND DIST.

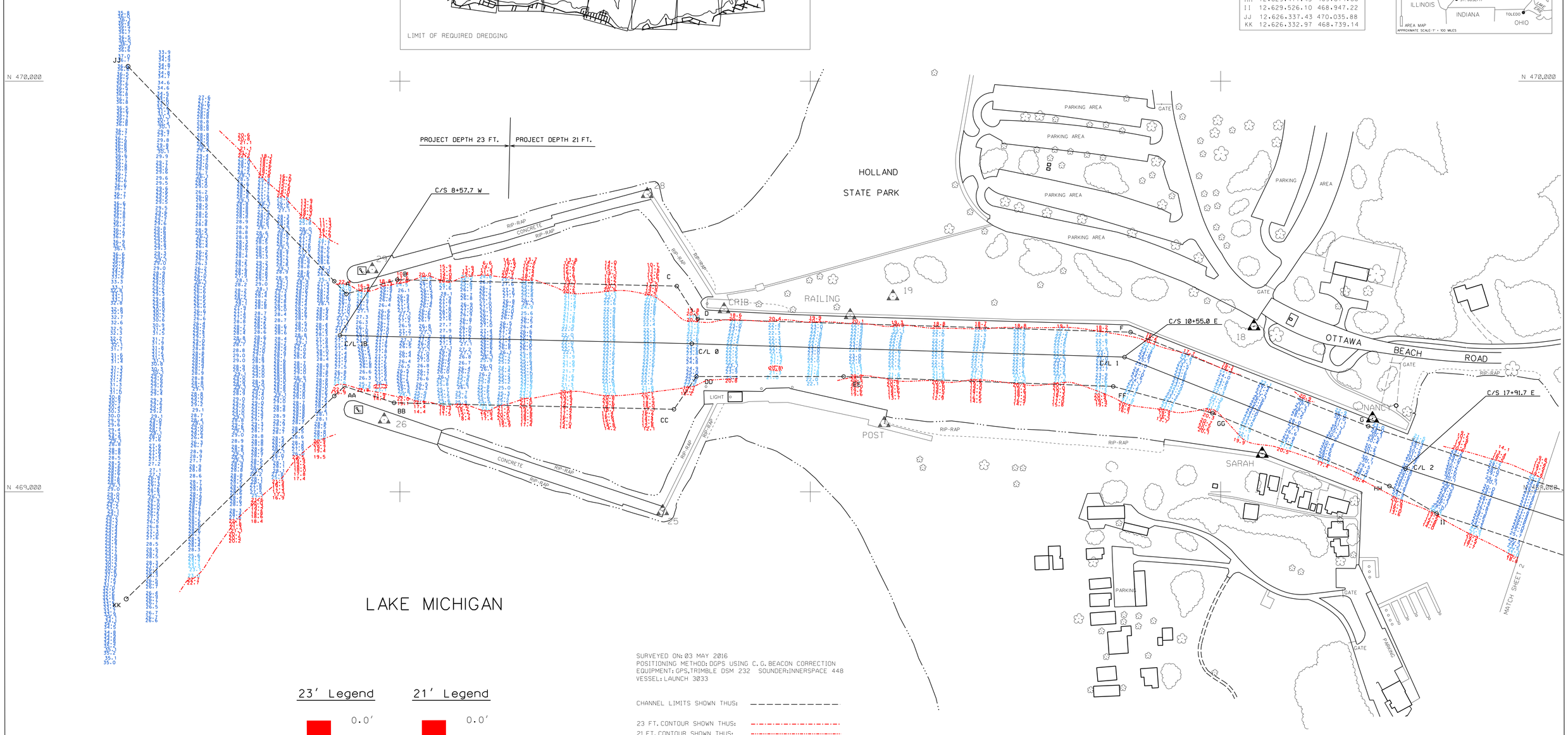
LAKE MICHIGAN



100' 0 100' 200' 300'
scale feet

CENTER LINE T.P.		
T.P.	EAST X	NORTH Y
C/L 0	12.627.711.34	469.360.74
C/L 1	12.628.765.83	469.328.04
C/L 1B	12.626.853.85	469.381.04
C/L 2	12.629.450.74	469.056.67

CHANNEL LINE T.P.		
T.P.	EAST X	NORTH Y
A	12.626.869.67	469.481.99
B	12.626.993.65	469.516.63
C	12.627.674.80	469.500.91
D	12.627.725.90	469.420.87
F	12.628.780.48	469.388.80
G	12.629.359.52	469.159.78
AA	12.626.864.47	469.257.07
BB	12.626.985.78	469.216.76
CC	12.627.667.87	469.201.02
DD	12.627.722.67	469.280.93
EE	12.628.081.31	469.280.83
FF	12.628.738.27	469.256.68
GG	12.628.979.88	469.191.62
HH	12.629.411.45	469.014.06
II	12.629.526.10	468.947.22
JJ	12.626.337.43	470.035.88
KK	12.626.332.97	468.739.14



SURVEYED ON: 03 MAY 2016
POSITIONING METHOD: DGPS USING C. G. BEACON CORRECTION
EQUIPMENT: GPS, TRIMBLE DSM 232 SOUNDER: INNERSPACE 448
VESSEL: LAUNCH 3033

CHANNEL LIMITS SHOWN THUS: ————————

23 FT. CONTOUR SHOWN THUS:
21 FT. CONTOUR SHOWN THUS:

23' Legend	21' Legend
0.0'	0.0'
23.0'	21.0'
24.0'	22.0'
25.0'	23.0'
26.0'	24.0'
26.0'+	24.0'+

ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. 1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC. HYDRAULIC CORRECTOR OF 0.3 APPLIED

GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (2113) 1983 NORTH AMERICAN DATUM, U.S. FOOT.

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 EXISTING AT THAT TIME.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL NEAR CROSS SECTION 17+50E IN HOLLAND HARBOR, MI.

DATE OF PHOTOGRAPHY
19 JULY 1992

NO.	DATE	REVISION	BY

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

DRAWN BY E.D.S.
DESIGNED BY
CHECKED BY
REVIEWED:
SUBMITTED:
CHIEF, OTS BRANCH
APPROVED
LTC., C.E. DISTRICT ENGINEER

HOLLAND HARBOR, MICHIGAN
CONDITION OF CHANNEL
AFTER DREDGING
MAY 2016
GRAND HAVEN AREA OFFICE

APPROVAL RECOMMENDED:
CHIEF, CONST. & OPER. DIVISION
DATE

SCALE 1" = 100'
CADD FILENAME hoa01g16.DGN
DRAWING NUMBER
SHEET 1 OF 9