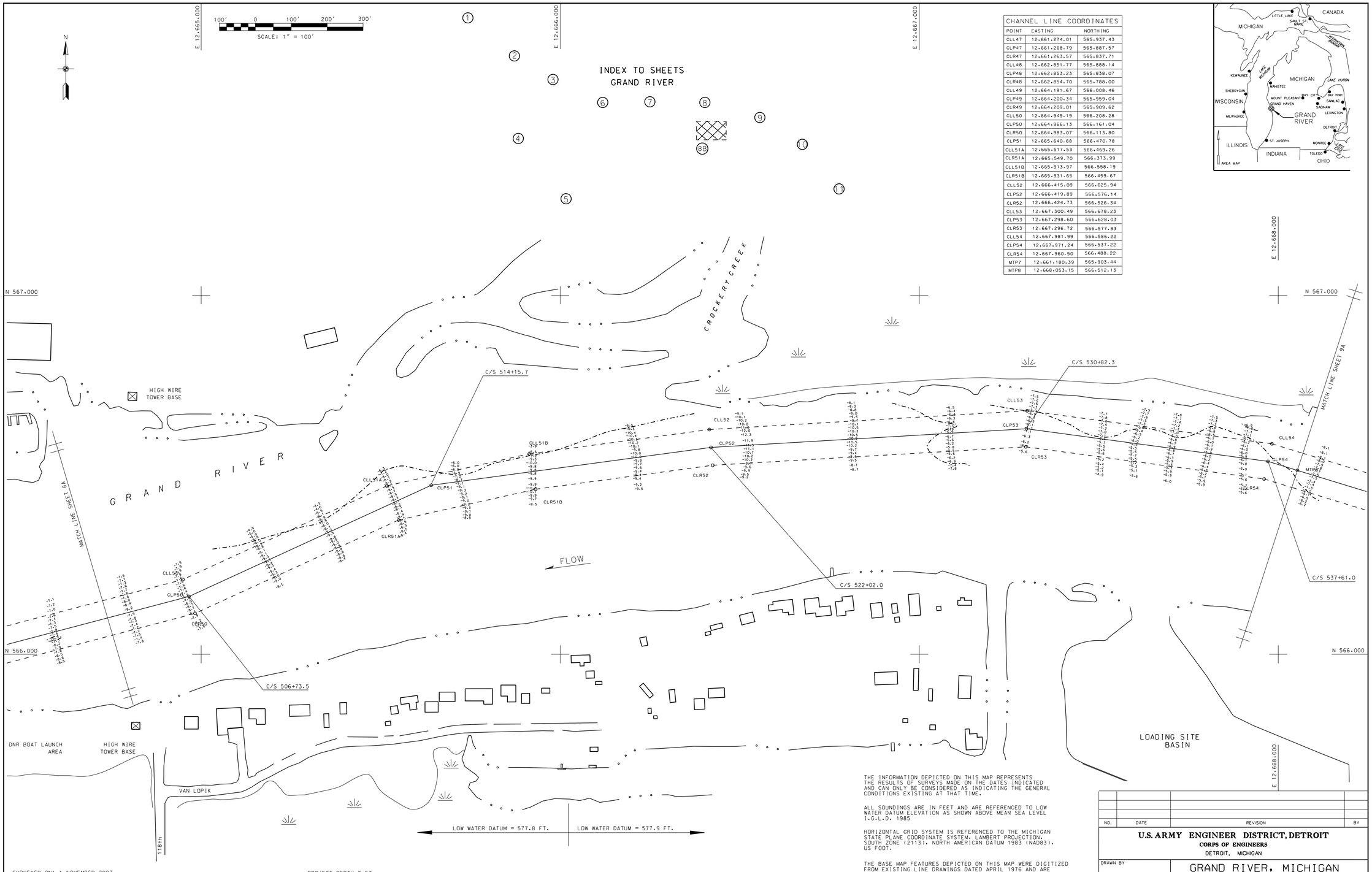

CHANNEL LINE COORDINATES		
POINT	EASTING	NORTHING
CLL47	12.661.274.01	565.937.43
CLP47	12.661.268.79	565.887.57
CLR47	12.661.263.57	565.837.71
CLL48	12.662.851.77	565.888.14
CLP48	12.662.853.23	565.838.07
CLR48	12.662.854.70	565.788.00
CLL49	12.664.191.67	566.008.46
CLP49	12.664.200.34	565.959.04
CLR49	12.664.209.01	565.909.62
CLL50	12.664.949.19	566.208.28
CLP50	12.664.966.13	566.161.04
CLR50	12.664.983.07	566.113.80
CLP51	12.665.640.68	566.470.78
CLL51A	12.665.517.53	566.469.26
CLR51A	12.665.549.70	566.373.99
CLL51B	12.665.913.97	566.558.19
CLR51B	12.665.931.65	566.459.67
CLL52	12.666.415.09	566.625.94
CLP52	12.666.419.89	566.576.14
CLR52	12.666.424.73	566.526.34
CLL53	12.667.300.49	566.678.23
CLP53	12.667.298.60	566.628.03
CLR53	12.667.296.72	566.577.83
CLL54	12.667.981.99	566.586.22
CLP54	12.667.971.24	566.537.22
CLR54	12.667.960.50	566.488.22
MTP7	12.661.180.39	565.903.44
MTP8	12.668.053.15	566.512.13

SURVEYED ON: 1 NOVEMBER 2007
POSITIONING METHOD: DGPS, USING C.G. BEACON CORRECTIONS
VESSEL: LAUNCH 3033

PROJECT DEPTH 8 FT.
CHANNEL LIMITS SHOWN THUS: - - - - - - - - - - - - - - - -
7 FT. CONTOUR SHOWN THUS: —·—·—·—·—·—·—·—·—·—·—

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.

ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION AS SHOWN ABOVE MEAN SEA LEVEL I.G.L.D. 1985

HORIZONTAL GRID SYSTEM IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD83), US FOOT.

THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING LINE DRAWINGS DATED APRIL 1976 AND ARE OUTDATED AND INACCURATE.

ALL NAD83 GRID AND COORDINATE DATA USED FOR THIS SHEET WERE CONVERTED FROM NAD27 COORDINATES USING CORPSCON VERSION 3.01 SOFTWARE.

THE LOADING SITE BASIN OUTLINE DEPICTED ON THIS MAP WAS OBTAINED FROM CODE PHASE DGPS MEASUREMENTS TAKEN BY THE GHAO ON 2 OCTOBER 1996, COMBINED WITH ON SITE DISTANCE OFFSET ESTIMATES TAKEN ON THIS SAME DATE. THE LOADING SITE BASIN OUTLINE DEPICTED ON THIS MAP IS INTENDED TO PROVIDE APPROXIMATE STRUCTURE LOCATIONS FOR REFERENCE USEAGE AND IS NOT PRESENTED AS BEING FROM PRECISE SURVEY METHODOLOGY.

NO.	DATE	REVISION	BY

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

DRAWN BY
DESIGNED BY
CHECKED BY
REVIEWED:
SUBMITTED: CHIEF, PROJ. OPERS. SEC.
APPROVAL RECOMMENDED: CHIEF, OTS BRANCH
DATE
APPROVED PE CHIEF, CONST. OPNS DIVISION

GRAND RIVER, MICHIGAN
CONDITION OF CHANNEL
NOVEMBER 2007
GRAND HAVEN AREA OFFICE

SCALE 1" = 100 FT.
CADD FILENAME GRCBBG07.DGN
DRAWING NUMBER
SHEET 8B OF 11