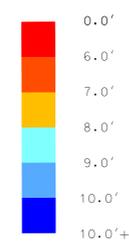


POINT	EASTING	NORTHING
CLL18	12,643,427.75	566,020.67
CLP18	12,643,377.76	566,025.55
CLR18	12,643,327.78	566,030.42
CLL19	12,643,425.30	565,364.57
CLP19	12,643,375.29	565,360.33
CLR19	12,643,325.27	565,356.08
CLL20	12,643,526.87	564,784.36
CLP20	12,643,476.33	564,771.69
CLR20	12,643,429.34	564,761.59
CLL21	12,643,714.92	564,143.72
CLP21	12,643,633.41	564,119.94
CLR21	12,643,618.92	564,115.71
CLL22	12,643,913.44	563,467.36
CLP22	12,643,866.40	563,449.14
CLR22	12,643,820.56	563,428.75
MTP3	12,643,806.11	568,244.44
MTP4	12,643,906.09	563,376.97

8' Legend



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 577.0 FT. ABOVE MEAN SEA LEVEL 1, G.L.D. 1955.

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

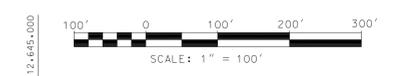
THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING LINE DRAWINGS DATED APRIL 1976 AND ARE OUTDATED AND INACCURATE.

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

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL IN THE GRAND HAVEN GOVERNMENT BASIN.

SURVEYED ON: 19 SEPTEMBER 2014
POSITIONING METHOD: DGPS, USING C.G. BEACON CORRECTIONS
VESSEL: LAUNCH 3033

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



NO.	DATE	REVISION	BY

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

GRAND RIVER, MICHIGAN
CONDITION OF CHANNEL
SEPTEMBER 2014
GRAND HAVEN AREA OFFICE

DRAWN BY	<p align="center">SCALE 1" = 100 FT.</p> <p align="right">CADD FILENAME: GRC4BG14.DGN DRAWING NUMBER</p>
DESIGNED BY	
CHECKED BY	
REVIEWED	
SUBMITTED	APPROVAL RECOMMENDED
CHEF, PROJ. OPERS. SEC.	CHEF, OTS BRANCH
APPROVED	DATE
PE	SCALE 1" = 100 FT.
CHEF, CONST. OPNS. DIVISION	SHEET 4B OF 11