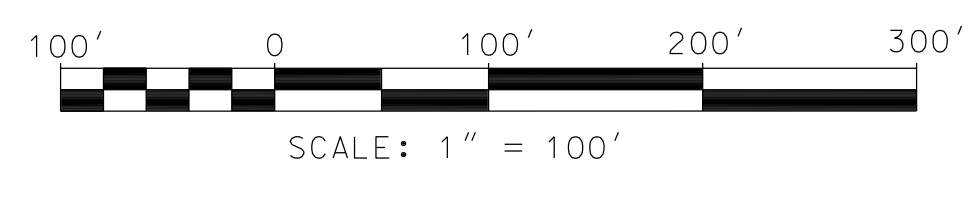
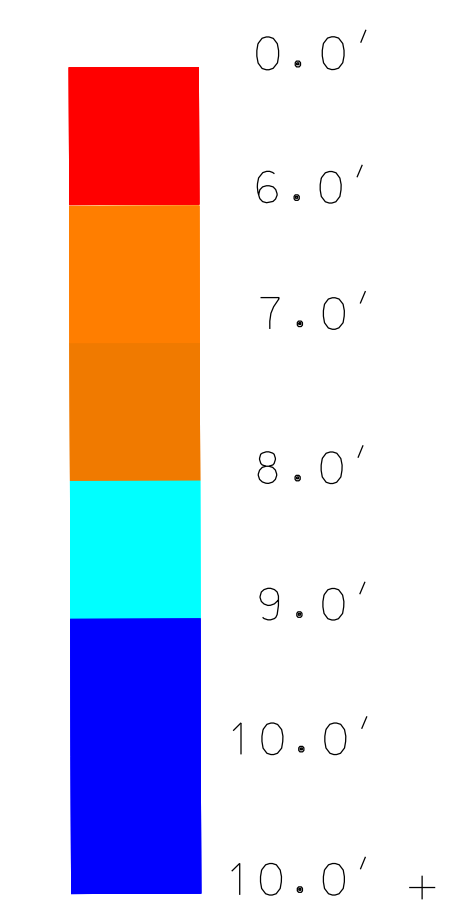


**8' Legend**



CHANNEL LINE COORDINATES

| POINT | EASTING       | NORTHING   |
|-------|---------------|------------|
| CLL43 | 12.654.766.55 | 566.000.19 |
| CLP43 | 12.654.757.35 | 565.950.55 |
| CLR43 | 12.654.748.15 | 565.900.91 |
| CLL44 | 12.656.292.05 | 565.932.55 |
| CLP44 | 12.656.294.64 | 565.882.39 |
| CLR44 | 12.656.297.23 | 565.832.23 |
| CLL45 | 12.658.406.05 | 566.246.93 |
| CLP45 | 12.658.410.57 | 566.197.06 |
| CLR45 | 12.658.415.08 | 566.147.18 |
| CLL46 | 12.659.372.25 | 566.278.83 |
| CLP46 | 12.659.368.62 | 566.228.68 |
| CLR46 | 12.659.364.99 | 566.178.54 |
| MTP6  | 12.654.261.83 | 566.116.01 |
| MTP7  | 12.661.180.39 | 565.903.44 |

SURVEYED ON: 24 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: -----

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. 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THE BASE MAP FEATURES DEPICTED ON THIS MAP WERE DIGITIZED FROM EXISTING LINE DRAWINGS DATED APRIL 1976 AND ARE OUTDATED AND INACCURATE.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 GAGUE MARK ALONG THE SHEET STEEL WALL IN THE GRAND HAVEN GOVERNMENT BASIN.

| 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 | DESIGNED BY | CHECKED BY | REVIEWED | SUBMITTED | APPROVAL RECOMMENDED |
|          |             |            |          |           |                      |

DATE: \_\_\_\_\_

SCALE **1" = 100 FT.**

CADD FILENAME: GRC79014.DGN  
 DRAWING NUMBER \_\_\_\_\_  
 SHEET 7B OF 11