







LEGEND

- Cable Submarine
- - Cable Overhead
- Placement Area
- I Beacon, General
- Contour Lines
- ▭ Channel Limits

SOUNDING LEGEND

- LESS THAN PROJECT DEPTH
- PROJECT DEPTH
- PROJECT DEPTH +1'
- PROJECT DEPTH +2'
- PROJECT DEPTH +3'
- PROJECT DEPTH +4'
- PROJECT DEPTH +5'

1 inch = 100 feet

Feet

0 100 200 300 400 500 600

NOTES: 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.

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

ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. 1985 ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC.

HYDRAULIC CORRECTOR OF 0.3 FT. APPLIED

PROJECT DEPTHS FOR MUSKEGON HARBOR INCLUDE: 29', 28' AND 27'

VERTICAL WATER LEVEL READING WERE TAKEN FROM A FIXED GAGE MARK LONG THE SHEET STEEL WALL IN THE CG BASIN NEAR CROSS SECTION 00+50E

POSITIONING: APPLANIX POS M/V
CORRECTIONS: MARINESTAR GNSS G2
SONAR: ODOM CV300
SOFTWARE: HYPACK 2018
VESSEL: LAUNCH 3058

2010 AERIAL PHOTOGRAPHY DATA SOURCE: USGS

ALL COORDINATES ARE IN U.S. SURVEY FEET.

**US Army Corps
of Engineers**
District: CELRE

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U.S. ARMY CORPS OF ENGINEERS DETROIT DISTRICT	
Submitted: _____	Surveyed By: _____
Recommended: _____	Plotted By: _____
Approved: _____	Checked By: _____

Muskegon Harbor, MI
Muskegon Harbor
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Number**
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