

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

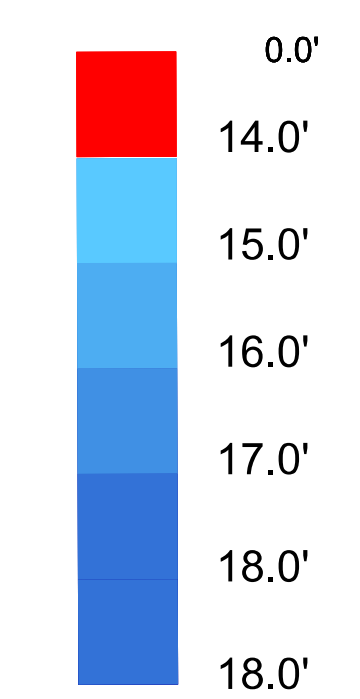
GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (2113) 1983 NORTH AMERICAN DATUM, U.S. FOOT.

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 9+00E IN SOUTH HAVEN HARBOR, MI.

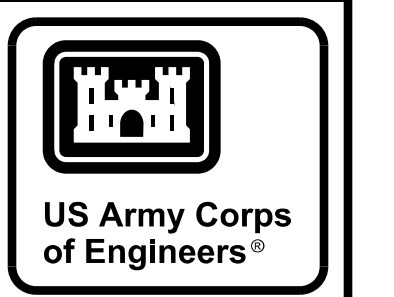
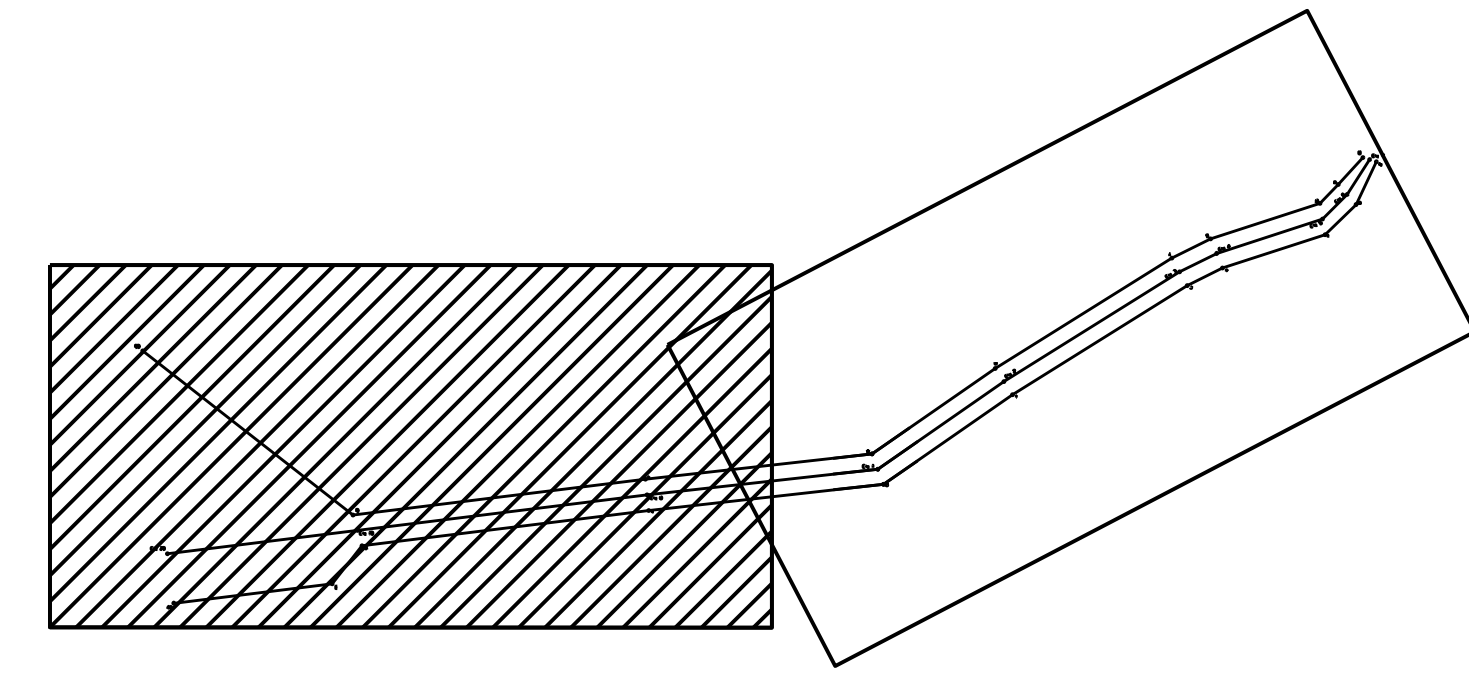
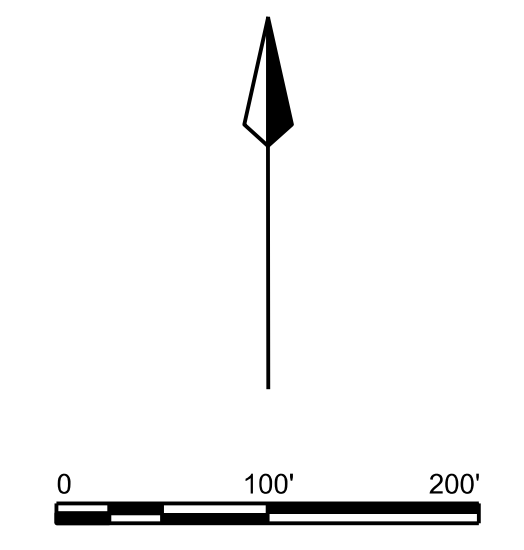
SURVEYED ON: 15 MAY 2017  
POSITIONING METHOD: APPLANIX POS M/V W/DGPS CORRECTIONS  
MOTION COMPENSATION: APPLANIX OCEAN MASTER POS M/V  
EQUIPMENT: ODOM CV 300 SINGLE BEAM SOUNDER  
SOFTWARE: HYPACK  
VESSEL: LAUNCH 3058

14' Legend



CHANNEL LINE T.P.		
CHTP	EAST X	NORTH Y
A	12,604,409.67	334,444.88
AA	12,603,629.89	334,206.61
B	12,604,372.24	334,571.26
BB	12,603,501.54	335,251.45
E	12,604,286.54	334,287.27
F	12,605,596.62	334,590.69
X	12,605,582.25	334,719.89

CENTER LINE T.P.		
CL TP	EAST X	NORTH Y
2B	12,603,604.36	334,411.44
1B	12,604,390.95	334,508.07
0	12,605,589.44	334,655.29



ISSUE DATE:	16 MAY 2017
SOLICITATION NO.:	
CONTRACT NO.:	
DRAWING NUMBER:	
FILE NAME:	south_haven_2017.dgn

SURVEYED BY:	U.S. ARMY CORPS OF ENGINEERS
DRAWN BY:	DETROIT DISTRICT
REVIEWED BY:	477 MICHIGAN AVE
APPROVED BY:	DETROIT, MI 48226
SIZE:	LAKE MICHIGAN AREA OFFICE
ANSID:	307 SOUTH HARBOR DR
	GRAND HAVEN, MI 49417

SOUTH HAVEN HARBOR  
MICHIGAN  
CONDITION OF CHANNEL  
MAY 2017

SHEET ID  
VH101