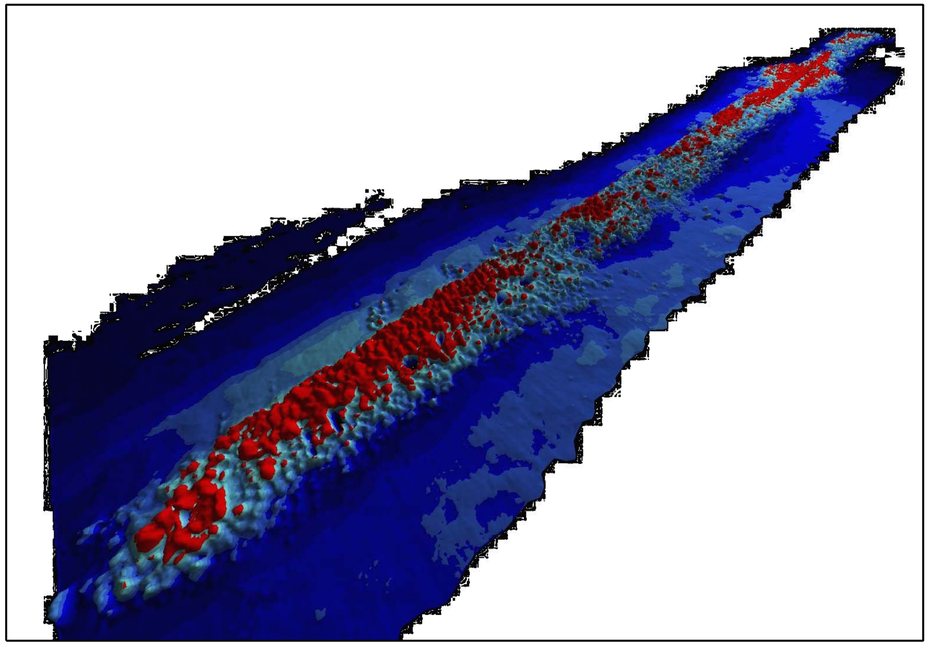
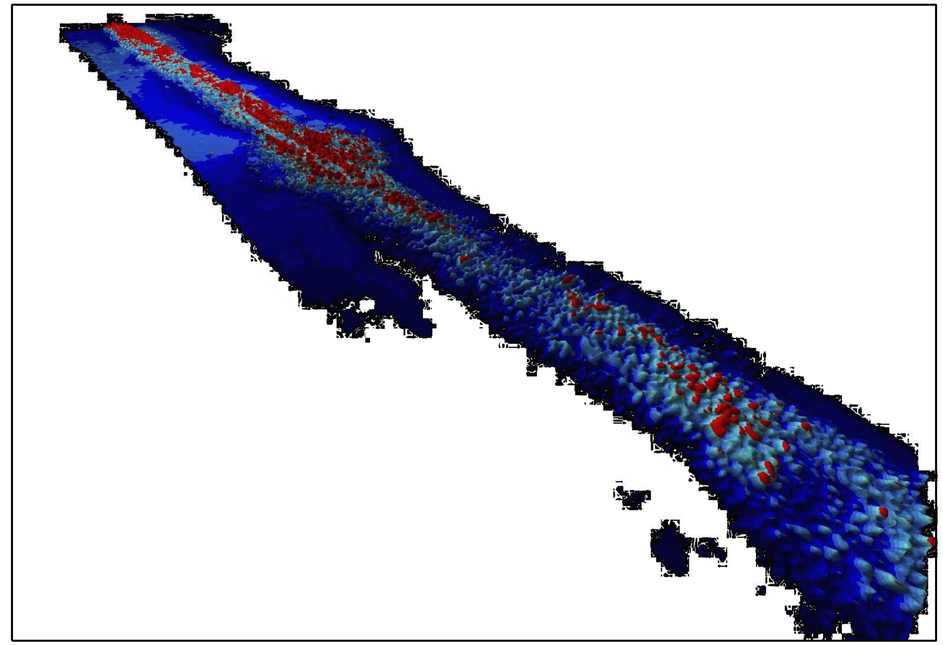
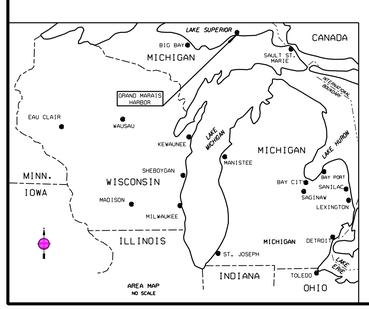


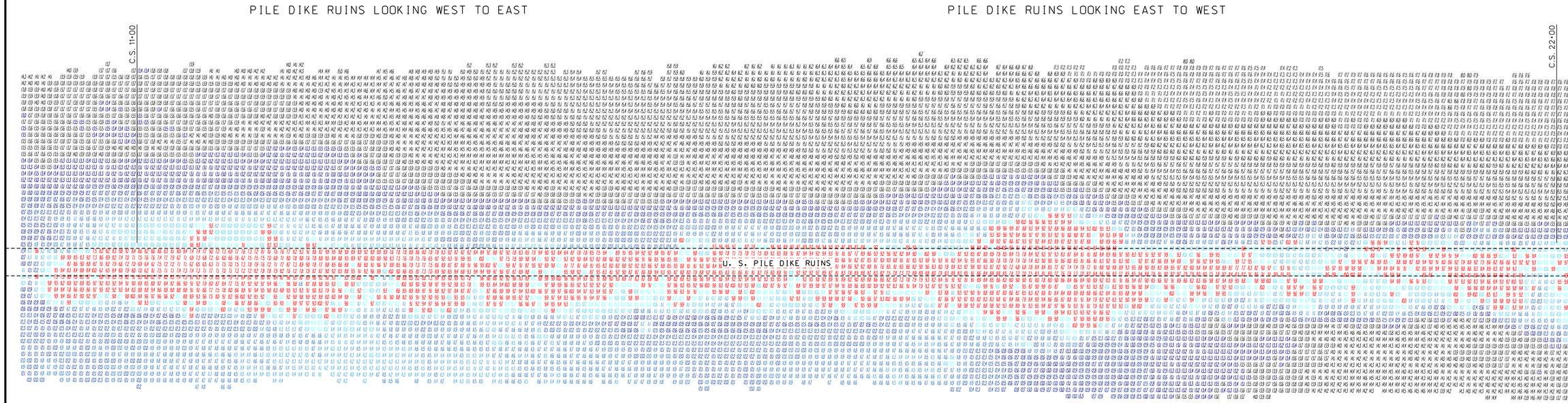
PILE DIKE RUINS LOOKING WEST TO EAST



PILE DIKE RUINS LOOKING EAST TO WEST

LAKE SUPERIOR





NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 5 FOOT BY 5 FOOT AREA CENTERED AROUND THE TEXT. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SHOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

2. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985 (IGLD 85). LOW WATER DATUM ZERO IS 601.1 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT THE INNER RANGE LIGHT. DEPTHS ARE MEASURED USING A RESON 8125 MULTIBEAM SONAR.

3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON JUNE 18, 2008 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

4. HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). THE DIFFERENTIAL CORRECTIONS ARE PROVIDED BY U.S. COAST GUARD DIFFERENTIAL BROADCAST STATIONS. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX INC. MODEL POS MV VER. 3.0. THIS IS A SINGLE FREQUENCY RECEIVER (C/A, L1 CODE) WITH ADVERTISED POSITIONAL ACCURACY OF 1-3 METERS RMS.

5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

LEGEND

	0.0'
	10.0'
	10.5'
	11.0'
	11.5'
	12.0'
	12.5'
	13.0'
	13.5'
	100'

40' 20' 0 40' 80'

SCALE: 1"=40'

US Army Corps of Engineers
Detroit District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Surveyed by: J. Wrocek		Survey Date: June 18, 2008	Rev.
Dwn by: J. Wrocek	Ckd by: K.A.B.	Design File name: Drawing color:	
Reviewed by:			
Chart. Geo. Mgmt.		File name: Plot date: 8-05-08 Plot scale: 1"=40'	
Chart. SOR Section			
Approval Recommended:			
Area Eng. Soo Office			
Approved by:			
District Engineer			

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

SOO AREA OFFICE
GREAT LAKES AREA
FEDERAL NAVIGATION CHANNEL

GRAND MARAIS HARBOR
OLD BREAKWATER RUINS
CONDITION SURVEY

Sheet reference number:
GMH-06
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