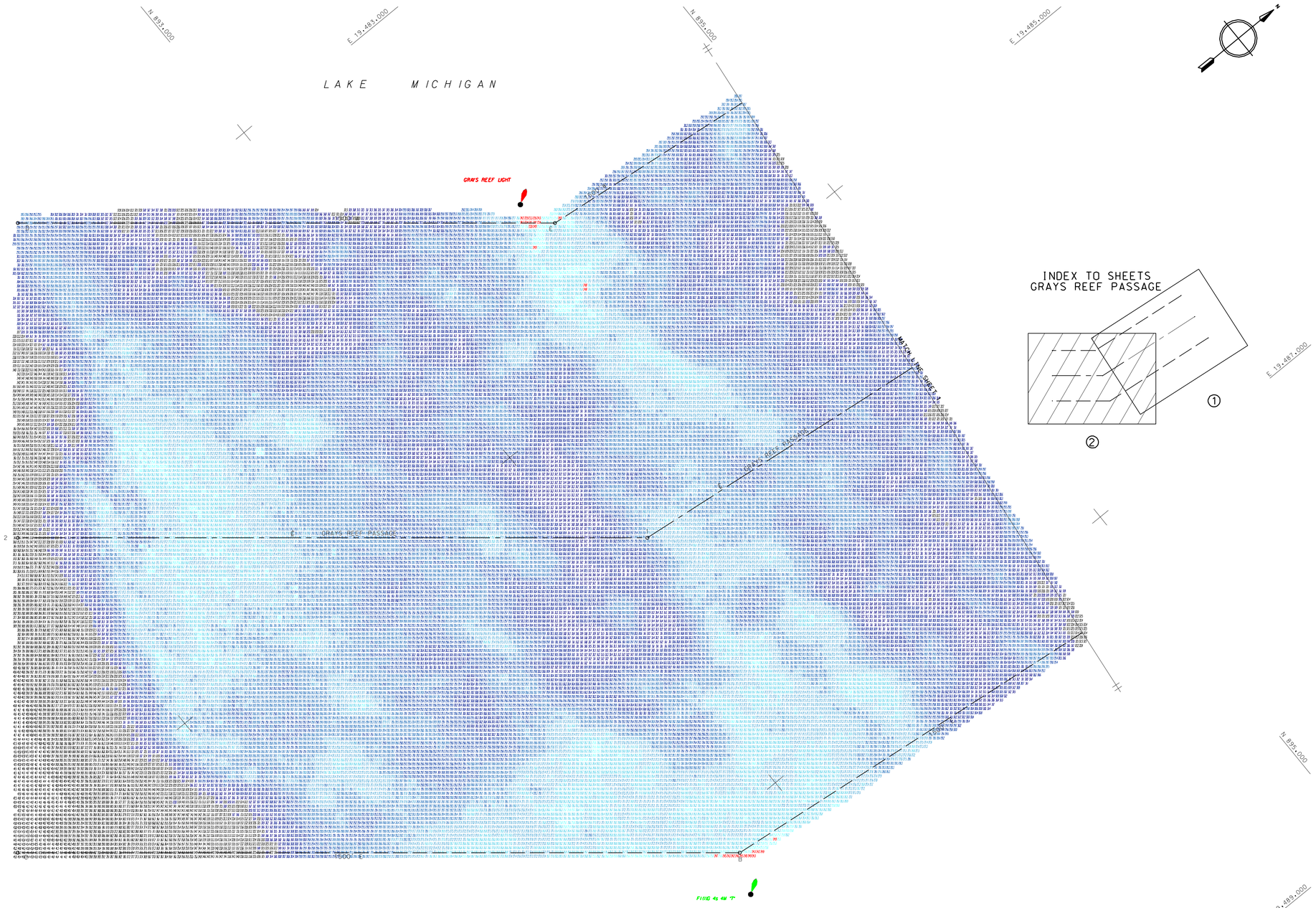
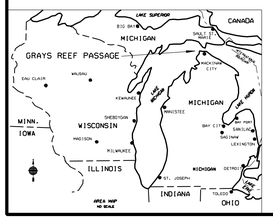


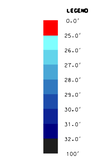


NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 20 FOOT BY 20 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 577.5 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED NOAA GAUGE LOCATED AT MACKINAW CITY MI. DEPTHS ARE MEASURED USING A RESON SEABAT 8125 MULTIBEAM SONAR.
3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON JULY 16. 2008 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.
4. THE LOCATION OF NAVIGATION AIDS REPRESENT THEIR GENERAL LOCATION AND CANNOT BE CONSIDERED FOR NAVIGATION.
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 LOCATED AT PICKFORD, AND CHEBOYGAN MI. SIGNAL STRENGTH IS USED AS THE DETERMINING FACTOR IN DIFFERENTIAL SELECTION. THE DGPS RECEIVER IS MANUFACTURED BY APPLANIX. MODEL POS MV 320. 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 CENTRAL ZONE (2112), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET.
6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 25.0' BELOW LOW WATER DATUM.

CHANNEL CONTROL DATA

STATION NUMBER	DESCRIPTION	COORDINATES NORTH	COORDINATES EAST
1	CENTERLINE	893,266.108	19,485,711.035
2	CENTERLINE	890,943.640	19,483,812.063
B	CHANNEL LINE	892,657.459	19,487,150.960
C	CHANNEL LINE	889,994.152	19,484,973.300
D	CHANNEL LINE	891,893.129	19,482,650.826
E	CHANNEL LINE	893,874.758	19,484,271.110



200' 100' 0 200' 400'
SCALE: 1"=200'

US Army Corps of Engineers
Detroit District

Symbol	Description	Date	Appr.

Date	Appr.	Symbol	Description

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

Recommended: Approved by: Chief, Eng. Div. Chief, Ops. Div.

Surveyed by: J. Mrozek, Dan Dyt, Jon Dyt
Reviewed by: Chief, Eng. Div. Chief, Ops. Div.
Plotted by: Project Engineer
Survey Date: July 16, 2008
Design File name:
Drawing code:
File name: plot date: 7-19-08 plot scale: 1"=200'

SOO AREA OFFICE
GRAYS REEF PASSAGE
FEDERAL NAVIGATION CHANNEL

GRAYS REEF PASSAGE
SURVEY SECTION 02
CONDITION SURVEY

Sheet reference number:
GRP-02
Sheet 2 of 2