NOTES

1. THIS SURVEY INFORMATION IS ACCURATE AS OF THE DATE OF PUBLICATION. HYDROGRAPHIC SURVEY DATA IS SUBJECT TO CHANGE RAPIDLY DUE TO SEVERAL FACTORS INCLUDING BUT NOT LIMITED TO DREDGING ACTIVITY AND NATURAL SHOALING AND SCOURING PROCESSES. THE U.S. ARMY CORPS OF ENGINEERS ACCEPTS NO RESPONSIBILITY FOR CHANGES IN THE HYDROGRAPHICAL CONDITIONS WHICH DEVELOP AFTER THE DATE OF PUBLICATION.

2. THIS INFORMATION IS INTENDED FOR THE INTERNAL USE OF THE U.S. ARMY CORPS OF ENGINEERS AND IS BEING PROVIDED FOR EXTERNAL USE AS A PUBLIC SERVICE. THIS AGENCY ACCEPTS NO RESPONSIBILITY FOR ERRORS OR OMISSIONS CONTAINED IN THIS DATA. THE ACCURACY OF THIS DATA IS THEREFORE NOT GUARANTEED, AND PRUDENT MARINERS SHOULD NOT RELY SOLELY UPON IT.

3. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 20 FOOT BY 20 FOOT AREA CENTERED AROUND THE TEXT.

4. THE LOCATION OF NAVIGATION AIDS REPRESENT THEIR GENERAL LOCATION AND CANNOT BE CONSIDERED FOR NAVIGATION.

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. CROSS SECTIONS AND RANGES ARE REFERRED TO PIPE ISLAND CHANNEL.

6. ELEVATIONS AND SOUNDING DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1955 (IGLD 55). LOW WATER DATUM ZERO IS 576.8 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT DETOUR MARINA. DETOUR MI. DEPTHS ARE MEASURED USING 16.5 DEGREE, 214 Khz, TRANSDUCERS.

7. HORIZONTAL POSITIONING IS DETERMINED USING THE DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS). ADVERTISED POSITIONAL ACCURACY IS 1-3 METERS RMS.

8. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 29.0' BELOW LOW WATER DATUM.

C.S. 90+00

C.S. 115+00

PIPE ISLAND COURSE

430' W

E 27,032.000

N 467.000

E 27,031.000

N 466.000

US Army Corps of Engineers
Detroit District

LOCATION MAP
NO SCALE

SITE MAP
NO SCALE

LEGEND

0.0 - 29.0	FEET
29.0 - 29.5	FEET
29.5 - 30.0	FEET
30.0 - 30.5	FEET
30.5 - 31.0	FEET
31.0 - 41.0	FEET
41.0 - 51.0	FEET
51.0 - 100.0	FEET

FLOW

100' 50' 0 100' 200'

SCALE: 1"=100'

Rev.	Description	Date
	Original Issue	SEPT. 27, 2006

Designed by: J.L. BROOKS
Drawn by: K.A. SAY
Checked by: J.L. BROOKS
Approved by: Hydrosurvey Sect
Drawing Name: PIC-04.dgn
Plot Scale: 1 inch = 100 feet
Plot Date: 02/14/07
Drawn By: Kathy Say
Checked By: Jeff Brooks

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

Approved: Hydrosurvey Section

SAINT MARYS RIVER
SAULT STE. MARIE, MICHIGAN
FEDERAL NAVIGATION CHANNEL

PIPE ISLAND COURSE
SURVEY SECTION 04
C.S. 90+00 TO C.S. 115+00
MINIMUM DEPTH PLOT

Sheet reference number:
PIC-04
Sheet 04 of 07