NOTES

1. THE SOUNDINGS INDICATED HEREON REPRESENT THE MINIMUM DEPTH FOUND IN THE 10 FOOT BY 10 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 1955 (IGLD 55). LOW WATER DATUM ZERO IS 577.2 FEET ABOVE MEAN WATER LEVEL AT FATHER POINT QUEBEC. WATER LEVEL READINGS ARE FROM AN AUTOMATED GAUGE LOCATED AT U.S.C.G. NAVIGATION LIGHT #49. DEPTHS ARE MEASURED USING A RESON SEABAT 8125 MULTIBEAM SONAR.

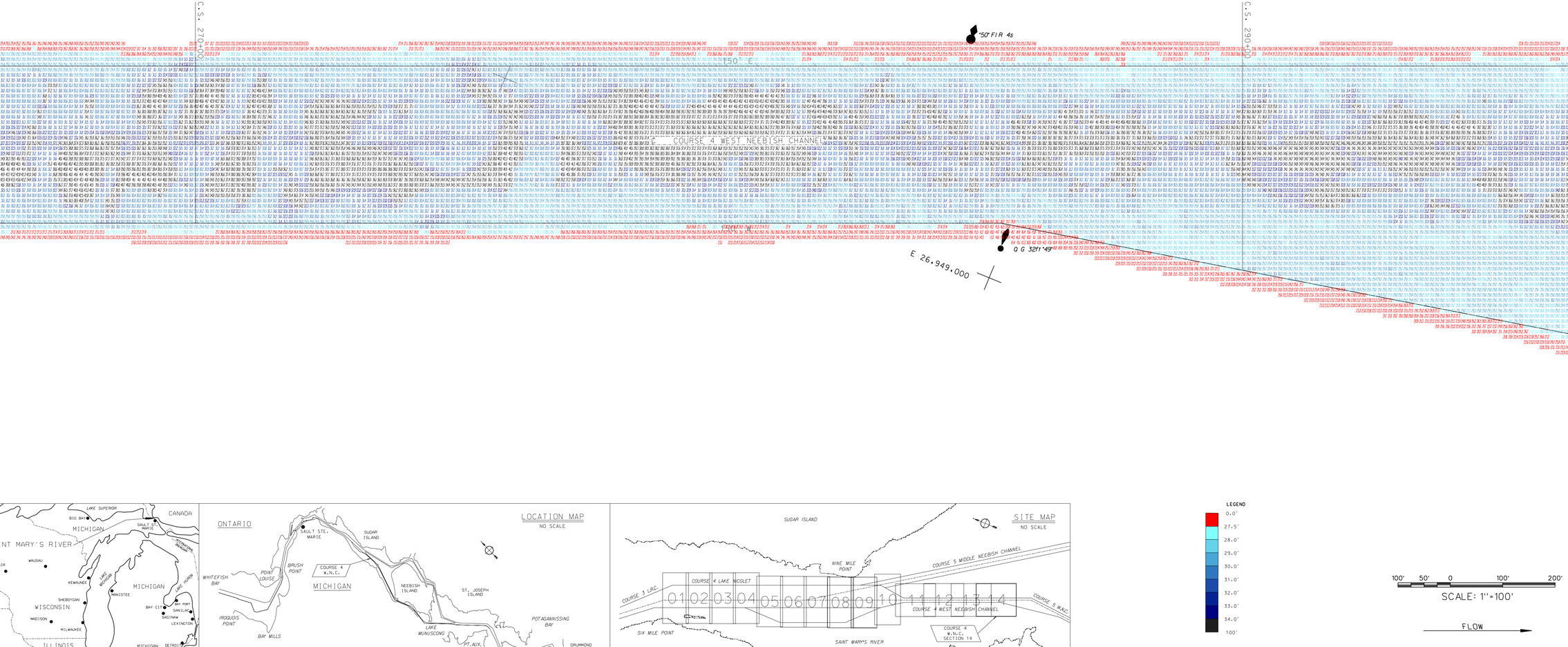
3. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON MAY 22, 2004 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS PRESENT AT THE TIME.

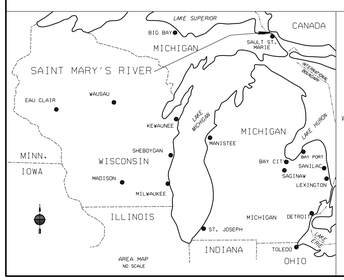
4. THE LOCATION OF NAVIGATION AIDS REPRESENT THEIR GENERAL LOCATION AND CANNOT BE CONSIDERED FOR NAVIGATION.

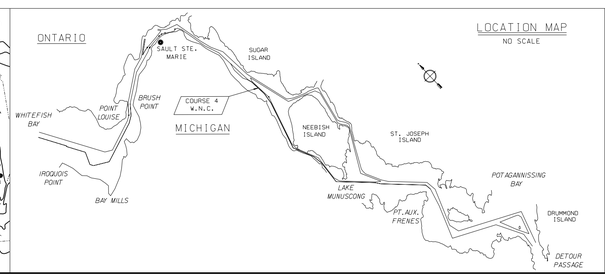
4. HORIZONTAL POSITIONING IS DETERMINED USING REAL TIME KINEMATIC GPS. RTK CORRECTIONS ARE BEING PROVIDED BY A BASE STATION LOCATED AT NAV. LIGHT #49. THE GPS RECEIVER IS MANUFACTURED BY ASHTECH, INC. MODEL Z-12. THIS IS A DUAL FREQUENCY RECEIVER (L1, L2 CODE) WITH ADVERTISED POSITIONAL ACCURACY OF 1-6 CENTIMETERS RMS.

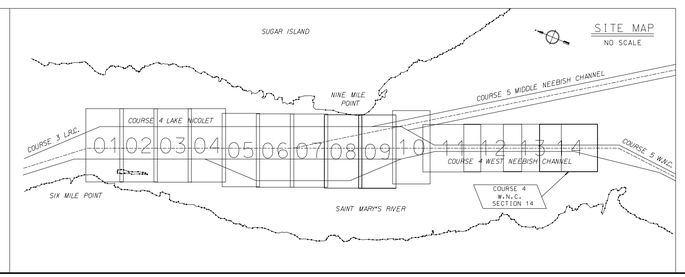
5. GRID COORDINATES ARE BASED ON THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, MICHIGAN NORTH ZONE (2111), NORTH AMERICAN DATUM 1983 (NAD83). ALL COORDINATES SHOWN ARE IN U.S. SURVEY FEET. CROSS SECTIONS AND RANGES ARE REFERRED TO COURSE 4 WEST NEEBISH CHANNEL.

6. UNLESS OTHERWISE NOTED PROJECT DEPTH IS 27.5' BELOW LOW WATER DATUM.









LEGEND

0.0'
27.5'
28.0'
29.0'
30.0'
31.0'
32.0'
33.0'
34.0'
100'

100' 50' 0 100' 200'

SCALE: 1"=100'

FLOW

US Army Corps of Engineers
Detroit District

Symbol	Description	Date	Appr.	Symbol	Description	Date	Appr.

Surveyed by: S. ALBRTON	Survey Dates: MAY 22, 2004
Dwn by: M. ALBRTON	Design File name:
Ckd by: T. ALBRTON	Drawing Code:
Reviewed by:	Drawing Name:
Chief, Ecol. Mgmt.	File name:
Chief, Sam Section	Plot date:
Submitted by:	Plot scale: 1"=100'
Chief, Hydrographic Surveys & Nautical Cartography	
Approved by:	
District Engineer	
Approval Recommended:	

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

500 AREA OF THE
SAINT MARY'S RIVER
FEDERAL NAVIGATION CHANNEL

COURSE 4 WEST NEEBISH CHANNEL
SURVEY SECTION 14
C.S. 270+00 TO C.S. 290+00
CONDITIONS SURVEY

Sheet reference number:
C4W-14
Sheet 14 of 14