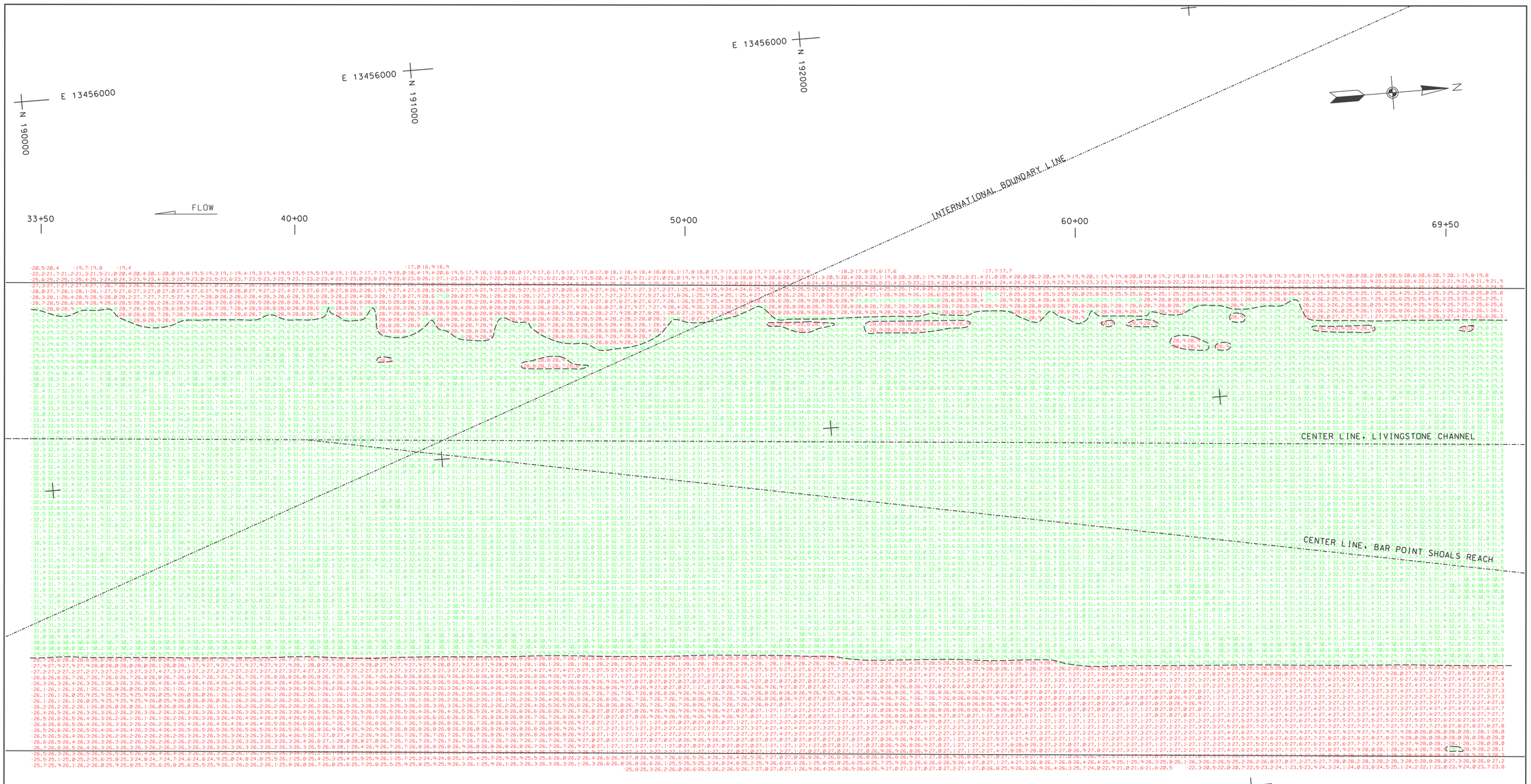


PROJECT DEPTH 29.0'
29.0 FT CONTOUR SHOWN THUS

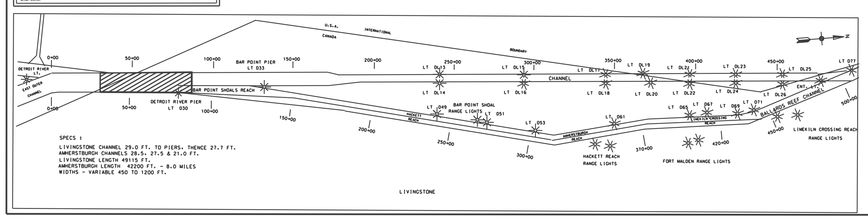
L.W.D. 569.2'

E 13458000
N 192000

E 13458000
N 191000

E 13458000
N 193000

LOCATION MAP



LEGEND

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 AT THE TIME.

LOW WATER DATUM

ELEVATIONS AND PROJECT DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM. (1985)

GRID COORDINATES

GRIDS SHOWN ARE BASED ON NATIONAL GEODETIC SURVEY PROJECTION TABLES. STATE OF MICHIGAN, SOUTH ZONE (2113). LAMBERT PROJECTION. 1983 NORTH AMERICAN DATUM. US SURVEY FOOT

DIRECTIONS

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS ARE AS SHOWN ON DRAWING.

THE AUTOMATED ELECTRONIC SURVEY WAS CONDUCTED BY John Hood and Joe Percell ABOARD THE USACOE SURVEY VESSEL WHEELER

AUTOMATED EQUIPMENT USED

POSITIONING:	TSS POS-MV
DATA PROCESSOR:	DELL 330 PC
SOFTWARE:	HYPACK
PLOTTER:	ENCAD CADJET 2
SONIC SOUNDER:	RESON SEABAT 8125

NOTES:

1. GAGES USED WERE OBTAINED BY AVERAGING NOAA GAGES FROM FERMI POWER PLANT AND GIBRALTER MI. DATA WAS OBTAINED ELECTRONICALLY VIA THE INTERNET
2. POSITIONS WERE DETERMINED BY GPS REFERENCE BEACON 838. LOCATED AT FORT WAYNE DETROIT, MICHIGAN - FREQUENCY 319 KHZ. 200 BPS
3. DEPTH MEASURED USING SEABAT 8125 ULTRA HIGH RESOLUTION FOCUSED MULTI-BEAM ECHOSOUNDER SYSTEM AND THE CODOM DIGIBAR PRO OB1200 VELOCITY PROFILER
4. EDITED MULTIBEAM SOUNDINGS WERE SORTED INTO A 37 FT. BY 15 FT. MATRIX. THE LARGEST STRIKE LOCATED IN EACH MATRIX CELL WAS THEN SELECTED FOR PLOTTING AT THE CELL CENTER.

100' 0' 100' 200'
SCALE

NO.	DATE	REVISION	BY

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

DETROIT AREA OFFICE — 3 December 2010

DETROIT RIVER, MICHIGAN
LIVINGSTONE CHANNEL
CS 33+50 TO CS 69+50
MULTI-BEAM SWEEP SURVEY
AVERAGE DEPTH PLOT

DESIGNED BY:
DRAWN BY: R. Delestowicz
CHECKED BY:
REVIEWED BY:
SUBMITTED BY: P.E. CHIEF, PROJ OPNS SEC
APPROVED: P.E. CHIEF, CONSTRUCTION - OPERATIONS DIVISION
APPROVAL RECOMMENDED: P.E. DATE CHIEF, OPERATIONS TECHNICAL SUPPORT BRANCH
SCALE AS SHOWN
SHEET 2 OF 14
DRAWING NUMBER Lc2c1210.dgn