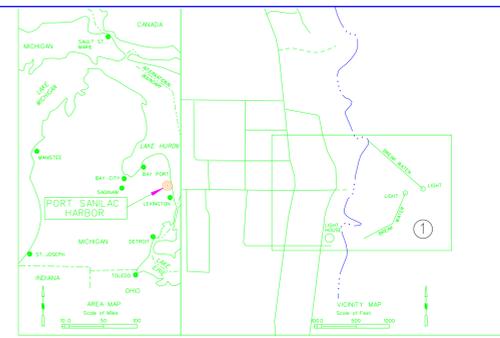
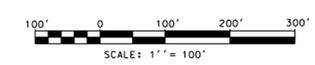


LEGEND	
	FENCE
	SHORE LINE
	CONTOUR LINE
	HORIZONTAL CONTROL POINT
	HORIZONTAL CONTROL POINT AND BENCHMARK
	BENCHMARK
	HAND SOUNDINGS IN AREA OF WEEDS

- 6 FT. PROJECT DEPTH CONTOUR
- 10 FT. PROJECT DEPTH CONTOUR
- 12 FT. PROJECT DEPTH CONTOUR



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 THAT TIME.

LOW WATER DATUM

ELEVATIONS AND PROJECT DEPTHS ARE REFERRED TO INTERNATIONAL GREAT LAKES DATUM 1985. THE LOW WATER DATUM FOR PORT SANILAC IS 577.5 FT. ABOVE MEAN SEA LEVEL.

GRID COORDINATES

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

- NOTES:**
- 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 THAT TIME.
 - ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION 577.5 FEET ABOVE MEAN SEA LEVEL 1.G.L.D. 1985.
 - PROJECT DEPTHS FOR THIS AREA ARE 6.0, 10.0, AND 12.0 FEET.
 - THE GRID COORDINATE SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, SOUTH ZONE (2113), NORTH AMERICAN DATUM 1983 (NAD 83), US FOOT.

CHANNEL CONTROL DATA			
STATION NUMBER	DESCRIPTION	COORDINATES	
		NORTH	EAST
1	CHANNEL LINE	708704.134	13609869.238
2	CHANNEL LINE	708693.012	13609874.092
3	CHANNEL LINE	709423.935	13609240.354
4	CHANNEL LINE	709423.115	13609140.356
5	CHANNEL LINE	708405.285	13609153.718
6	CHANNEL LINE	708578.526	13609499.283
7	CHANNEL LINE	708993.136	13609578.893
8	CHANNEL LINE	709080.267	13609644.174
9	CHANNEL LINE	709056.614	13609686.368
10	CHANNEL LINE	708574.929	13609721.302

DIRECTIONS

ALL DIRECTIONS ARE GRID AZIMUTHS REFERRED TO NORTH ZERO.

PROJECT DEPTHS

PROJECT DEPTHS ARE AS INDICATED.

POSITIONING

POSITIONS WERE DETERMINED BY CORRECTIONS FROM C.G. REFERENCE BEACON 115, SAGINAW, FREQUENCY OF 301 KHZ AT 100 BPS.

AUTOMATED EQUIPMENT USED

POSITIONING: TRIMBLE DGPS
SOFTWARE: HYPACK MAX
SONIC SOUNDER: ODOM CV-300

SURVEY CONTROL DATA			
STATION NUMBER	COORDINATES		
	NORTH	EAST	ELEV.
PORT SANILAC	709,671.28	13,609,172.93	584.89
1	709,593.94	13,607,883.22	
2	708,091.58	13,607,889.43	
MON. 4	708,134.42	13,608,408.10	599.36
MON. 6	708,362.943	13,608,507.67	594.56
B INGS 1	709,083.36	13,609,916.91	
N.BK. LT. INGS 1	708,763.76	13,609,922.80	
S.BK. LT. INGS 1	709,031.93	13,609,649.19	
TANK INGS 1	709,350.28	13,605,074.38	
CATH. CH. INGS 1	707,911.16	13,591,993.58	
COND. CH. INGS 1	708,609.25	13,606,611.80	
LIGHTHOUSE INGS 1	708,270.86	13,608,498.99	
MT. CH. INGS 1	708,366.93	13,607,358.80	586.08
MON. 8	709,083.62	13,609,919.04	582.389
BM WELL			589.258

NO.		DATE		REVISION		BY	
U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN							
DESIGNED BY:*	PORT SANILAC HARBOR, MI						
DRAWN BY:*	CONDITION SOUNDINGS						
CHECKED BY:*	MAY 9, 2012						
REVIEWED BY:*	DETROIT AREA OFFICE						
SUBMITTED BY:*	APPROVAL RECOMMENDED:*		P.E.				
CHIEF OF DISTRICT BRANCH	CHIEF OF DISTRICT DIVISION						
APPROVED:*	SCALE AS SHOWN		CADD FILE NAME PSM01A94.DGN				
LTC. C.E. DISTRICT ENGINEER	SHEET 1 OF 1		DRAWING NUMBER PSH0112C.dgn				