

**WATER LEVEL / GAGE INFORMATION**  
 Water level elevations (gauge) obtained during the survey were from TBM SAIL. See sheet 10 for TBM location.

**LEGEND**  
 The information depicted on this map represents the results of the surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

**LOW WATER DATUM**  
 All depths and project depths are referred to Low Water Datum elevation 577.5 Ft. above Mean Water Level, I.G.L.D. 1985.

**TOWERS**  
 TOWER

**GRID COORDINATES**  
 Grids shown are based on the National Geodetic Survey Projection Tables, State of Michigan, South Zone (2133), Lambert Projection, 1983 North American Datum, US SURVEY FOOT.

**POSITIONING**  
 Positions were determined by corrections from C.G. reference beacon 115, Saginaw, frequency 301 KHz, at 100 bps.

**Navigation Buoys**  
 Location of navigation buoys represents that general location on the date of the survey and cannot be considered for navigation.

**Project Information**  
 22.0 ft. project depth contour

**Survey Information**  
 Survey by: R. DELESTOWICZ  
 Date of survey: 18 APRIL 2012  
 Position system: TRIMBLE DGPS  
 Sounding system: SONIC SV-300  
 Transducer: 200 KHz with 8.0 degree beam angle

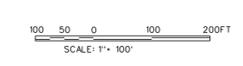
**CHANNEL LINE T.P.**

T.P.	EAST X	NORTH Y
37C	13,248,683.70	763,832.38
39	13,248,290.89	762,044.57
41	13,248,249.55	751,746.40
43	13,248,076.09	761,141.38
44	13,248,488.41	763,875.53
45	13,247,973.72	760,864.32
46	13,248,008.11	761,898.15
48	13,247,866.12	761,207.05
50	13,247,781.35	760,919.26

**CENTER LINE T.P.**

T.P.	EAST X	NORTH Y
15	13,248,061.86	761,481.10

- HORIZONTAL CONTROL**
- THIRD ORDER
  - △ LESS THAN THIRD ORDER
  - ▲ THIRD ORDER & BENCHMARK
  - VALUE UNKNOWN
- VERTICAL CONTROL**
- ⊗ BENCHMARKS



1	FEBRUARY, 1994	PLAN VIEW UPDATED	R.D.
NO.	DATE	REVISION	BY
<b>U.S. ARMY ENGINEER DISTRICT, DETROIT</b> CORPS OF ENGINEERS DETROIT, MICHIGAN			
DRAWN BY: R. DELESTOWICZ		<b>SAGINAW RIVER MI.</b> RIVER SECTION CONDITION SURVEY APRIL 2012 DETROIT AREA OFFICE	
DESIGNED BY:			
CHECKED BY:			
REVIEWED:			
SUBMITTED:		APPROVAL RECOMMENDED:	
CHIEF, PROJ-OPNS SEC		CHIEF, OPER & MAINT BR	
APPROVED:		DATE:	
CHIEF, CONST-OPNS DIV		SCALE: 1" = 100'	
		DRAWING NUMBER: sgr1112c.dgn	
		SHEET 11 OF 30	