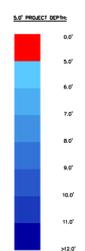




CHANNEL LINE TURNING POINTS		
T.P.	X	Y
1	13251183.4	786722.8
2	13251106.0	786786.1
3	13251837.2	787521.7
4	13251765.1	787591.4
5	13253315.2	788807.7
6	13253249.6	788883.1

CENTER LINE TURNING POINTS		
T.P.	X	Y
A	13251144.7	786754.4
B	13251801.2	787556.6
C	13253282.4	788845.4



5.0 ft. PROJECT DEPTH CONTOUR

- NOTES:
- 1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.
  - 2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:  
 HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH ZONE #2113, NORTH AMERICAN DATUM (NAD) OF 1983.  
 VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.
  - 3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL SKIFF EMPLOYING THE FOLLOWING COMPONENTS:  
 POSITIONING: TRIMBLE BLUE DGPS WITH CORRECTIONS FROM BEACON FRED 319  
 MOTION COMPENSATION: N/A  
 SONAR: DOOM CV-300 (SINGLEBEAM)  
 SOFTWARE: HYPACK 2015
  - 4) TIDE CORRECTION VALUES DERIVED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) WATER LEVEL STATION(S) AS FOLLOWS:  
 ESSEXVILLE, MI (#9075035).  
 LAKE HURON L.W.D. = 577.50
  - 5) THIS PROJECT IS A U.S.A.C.E. FLOOD CONTROL PROJECT CONSTRUCTED FOR FLOOD CONTROL, CLEARING AND/OR SNAGGING. THE SOUNDINGS SHOWN ON THIS MAP ARE SHOWN TO PROVIDE THE EXISTING CONDITION OF THE FLOOD CONTROL PROJECT DATED 08 SEPTEMBER 2016.
  - 6) BACKGROUND IMAGERY SOURCE FROM GOOGLE EARTH DATED 27 SEPTEMBER 2014.

	<b>UNITED STATES ARMY CORPS OF ENGINEERS</b> DETROIT AREA OFFICE, DETROIT, MICHIGAN
	<b>CONDITION SURVEY</b> <b>KAWKAWLIN RIVER, MI</b> CS 00+00 TO CS 30+00
SURVEYED BY: <b>B.R.</b>	DATE OF SURVEY: 08 SEPTEMBER 2016
CHECKED BY: <b>C.V.L.</b>	
SHEET <u>1</u> OF <u>1</u>	