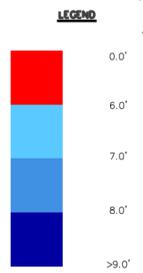




- NOTES:
- 1) THE SOUNDINGS AND ASSOCIATED INFORMATION REPRESENTED HEREIN ARE THE RESULT OF SURVEYS MADE ON THE DATE AS INDICATED AND CAN ONLY BE CONSIDERED REPRESENTATIVE OF THE GENERAL CONDITIONS EXISTING AT THE TIME OF SURVEY.
 - 2) THE SOUNDINGS DEPICTED HEREIN ARE EXPRESSED IN U.S. SURVEY FEET AND TENTHS THEREOF AND ARE REFERENCED TO THE FOLLOWING DATUMS:
 HORIZONTAL: MICHIGAN STATE PLANE COORDINATE SYSTEM, MICHIGAN SOUTH ZONE #213, NORTH AMERICAN DATUM (NAD) OF 1983.
 VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985.
 - 3) THE ABOVE RIVER SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL SKIFF EMPLOYING THE FOLLOWING COMPONENTS:
 POSITIONING: TRIMBLE DSM
 SONAR: 000M CV-300
 SOFTWARE: HYPACK 2013
 - 4) TIDE GAGE USED FOR RIVER WERE REFERENCED FROM A CHISELED MARK ON STEEL WALL LOCATED ACROSS FROM BOLLES HARBOR DNR BOAT RAMP, AT APPROXIMATELY C.S. 2+00N, SET OFF NGS B.M. 14DTSSR, PID -- MC0305, L.W.D.=569.2

CHANNEL CONTROL DATA			
STATION NUMBER	DESCRIPTION	COORDINATES	
		NORTH	EAST
4	CHANNEL LINE	137,371.3422	13,391,364.2848
5	CHANNEL LINE	137,828.0929	13,390,483.8934
6	CHANNEL LINE	137,828.5688	13,390,190.7383
7	CHANNEL LINE	137,538.0567	13,389,878.1589
19	CHANNEL LINE	137,497.6682	13,389,868.6561
20	CHANNEL LINE	137,938.5013	13,390,235.5633
21	CHANNEL LINE	137,938.0179	13,390,532.5990
22	CHANNEL LINE	137,542.5823	13,391,294.7973
23	CHANNEL LINE	137,509.5311	13,391,486.9839
3	CENTERLINE	137,433.4013	13,391,374.9562
4	CENTERLINE	137,883.0554	13,390,508.2462
5	CENTERLINE	137,883.5351	13,390,213.1508
6	CENTERLINE	137,567.8625	13,389,873.5085



6.0 ft. PROJECT DEPTH CONTOUR



UNITED STATES ARMY CORPS OF ENGINEERS
DETROIT AREA OFFICE, DETROIT, MICHIGAN

CONDITION SURVEY
BOLLES HARBOR, MI

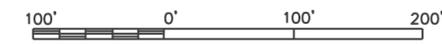
CS 07+00 TO CS 28+00

DATE OF SURVEY: 27 APRIL 2016

DRAWN BY: **B.R.**

CHECKED BY: **C.V.L.**

SCALE 1" = 100'



SHEET 5 OF 6