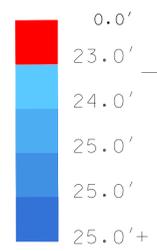


23' Legend



CHANNEL LINE TURNING POINTS		
CHANNEL POINT	EAST (X)	NORTH (Y)
CHTP-14	19,170,512.01	345,761.87
CHTP-16	19,171,479.91	345,811.49
CHTP-18	19,172,281.04	345,924.77
CHTP-20	19,172,771.67	346,061.72
CHTP-23	19,170,524.46	345,662.37
CHTP-25	19,171,489.42	345,711.84
CHTP-27	19,172,301.57	345,826.68
CHTP-29	19,172,948.65	346,007.30

CENTERLINE TURNING POINTS			
CROSS SECTION	C/L	EAST (X)	NORTH (Y)
32+17.9	C/L 4	19,170,390.03	345,695.53
42+02.8	C/L 5	19,171,373.62	345,745.96
51+67.7	C/L 6	19,172,329.00	345,881.05
57+85.4	C/L 7	19,172,923.95	346,047.12

PROJECT DEPTH 23 FEET  
 CHANNEL LIMITS SHOWN THUS: - - - - -  
 23 FT. CONTOUR SHOWN THUS: - - - - -

SURVEYED ON: 29 SEPTEMBER 2016  
 POSITIONING METHOD: DGPS USING C. G. BEACON CORRECTIONS  
 VESSEL: LAUNCH 3033

ALL SOUNDINGS ARE REFERENCED TO I.G.L.D. 1985 FOR LAKE MICHIGAN, ELEVATION 577.5 FT. ABOVE MEAN SEA LEVEL AT RIMOUSKI, QUEBEC. HYDRAULIC CORRECTOR OF 0.3 FT. APPLIED

GRID SYSTEM BASED ON LAMBERT PROJECTION, MICHIGAN STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE (212) 1983 NORTH AMERICAN DATUM, U.S. SURVEY FOOT.

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 EXISTING AT THAT TIME.

VERTICAL WATER LEVEL READINGS WERE TAKEN FROM A FIXED GAUGE MARK ALONG THE SHEET STEEL WALL NEAR THE COAST GUARD STATION IN MANISTEE HARBOR, MI.

U.S. ARMY ENGINEER DISTRICT, DETROIT CORPS OF ENGINEERS DETROIT, MICHIGAN			
MANISTEE HARBOR, MICHIGAN CONDITION OF CHANNEL SEPTEMBER 2016 GRAND HAVEN AREA OFFICE			
DESIGNED BY:		DATE:	
DRAWN BY:		APPROVAL RECOMMENDED:	
CHECKED BY:		DATE:	
REVIEWED BY:			
SUBMITTED BY:			
CHIEF, PROJ. OPNS. SEC.	CHIEF, DTS BRANCH		
APPROVED:			
SCALE 1" = 100 FT.		CADD FILE NAME: mnc03g16.dgn	
SHEET 3 OF 4		DRAWING NUMBER	