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 CENTRAL ZONE #2112, NORTH AMERICAN DATUM (NAD) OF 1983.
VERTICAL: INTERNATIONAL GREAT LAKES DATUM (IGLD) OF 1985. LWD=577.5

3) THE ABOVE SURVEY WAS CONDUCTED USING THE U.S.A.C.E. SURVEY VESSEL BOULTON EMPLOYING THE FOLLOWING COMPONENTS:

POSITIONING: APPLANIX POS-MV W/VRS-RTK

MOTION COMPENSATION: POS-MV MRU

SONAR: ODOM CV-300

SOFTWARE: HYPACK 2017

4) GAGES USED WERE REFERENCED FROM TBM HARR BEAM WHICH WAS ESTABLISHED FROM NGS VERTICAL CONRTOL POINT W 301 (PID QKO514).

100' 0' 100' 200'

SCALE 1" = 100'

SURVEY CONTROL POINTS

STATION	COORDINATES EAST X	NORTH Y
DOCK	19,965,938.887	491,198.329
HAR1	19,966,230.245	492,111.558
PARK	19,965,566.772	491,685.372
SHELTER	19,965,641.427	491,106.695
P2	19,967,218.848	492,056.664
P4	19,966,969.049	491,456.005
P5	19,966,058.627	490,696.223
104	19,965,190.467	490,284.899
108	19,966,741.290	490,924.963
NAVAID 1	19,967,212.721	492,193.437
NAVAID 2	19,966,886.493	491,185.325

CHANNEL LINE POINTS

STATION	COORDINATES EAST X	NORTH Y
A	19,967,477.150	492,053.430
B	19,967,221.994	492,289.628
C	19,967,146.877	492,210.475
D	19,967,103.924	491,939.392
E	19,966,769.042	491,150.961
F	19,966,113.173	491,006.074
G	19,966,058.071	491,017.597
H	19,966,258.132	491,819.360
I	19,966,609.898	491,882.510
J	19,966,857.343	491,820.752
K	19,966,916.265	491,829.962
L	19,966,947.429	491,903.535
M	19,966,906.346	491,970.582
N	19,966,972.712	492,390.372
O	19,967,148.118	492,575.099
P	19,967,586.779	492,673.903
Q	19,966,233.000	491,719.039
S	19,966,935.847	491,543.521

LEGEND

12.0'
13.0'
14.0'
>15.0'

LEGEND

10.0'
11.0'
12.0'
>13.0'

10.0 ft. PROJECT DEPTH CONTOUR

12.0 ft. PROJECT DEPTH CONTOUR

E 1966000

N 492000

N 491000

CS 10+00

CS 05+00

CS 00+00

PROJECT DEPTH
10.0 FT

MAINTAINED BY OTHERS

TBM HARR BEAM

US Army Corps of Engineers®

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
DETROIT, MI

DETROIT AREA OFFICE
6309 WEST JEFFERSON AVE.
DETROIT, MICHIGAN 48209

SURVEYOR: KJK, MES
DWN BY: NJB
REVIEWED BY: CVE
APPROVED BY:
PLOT SCALE: 1" = 100'
SIZE: ANSI-D
IMAGE DATE:
IMAGE SOURCE:
DRAWING DATE: 20180822
SUBMITTED BY:
CONTRACT NO.:
FILE NUMBER:
FILE NAME: Harrisville Harbor.dgn

HARRISVILLE HARBOR
MICHIGAN

CONDITION SURVEY
24 JULY 2018

SHEET IDENTIFICATION

SHEET 1 OF 1