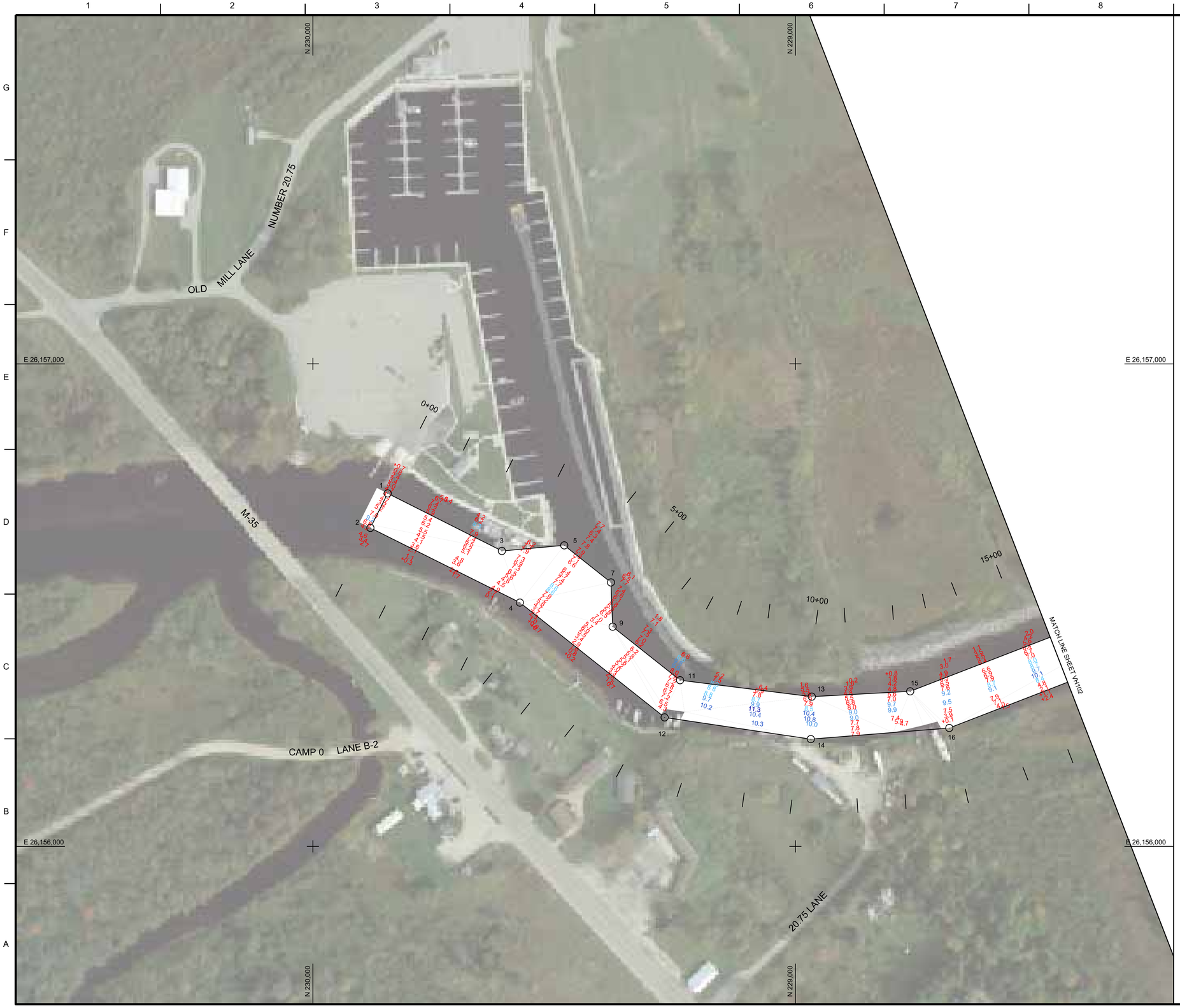


NOTES:

SURVEY CONTROL AND BENCH MARK DATA IS AVAILABLE FROM THE DETROIT DISTRICT, ENGINEERING & TECHNICAL SERVICES, OPERATIONS TECHNICAL SUPPORT BRANCH, LAKE MICHIGAN AREA OFFICE, KEWAUNEE SUB-OFFICE.

THE COORDINATE GRID SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE 2111, NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.

ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION, 577.5 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC (INTERNATIONAL GREAT LAKES DATUM 1985).

PROJECT DEPTH FOR THIS AREA IS 8.0'.

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 AT THAT TIME.

THE SURVEY SHOWN WAS CONDUCTED BY THE LAKE MICHIGAN AREA OFFICE, KEWAUNEE SUB OFFICE SURVEY PARTY ON 22 JULY 2019. AN ODOM CV300 SOUNDER, AN APPLANIX WAVEMASTER WITH RTK CORRECTIONS FOR MOTION COMPENSATION AND POSITIONING, HYPACK 2017, AND SURVEY VESSEL LAUNCH 3063.

WATER LEVEL WAS DETERMINED USING RTK CORRETIONS FROM MDOT CORS.

COORDINATE TABLE

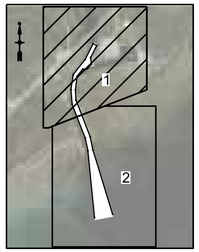
STA.	DESCRIPTION	NORTHING	EASTING
1	CHANNEL PT.	229844.879	26156731.541
2	DO.	229880.775	26156660.046
3	DO.	229608.232	26156612.227
4	DO.	229570.892	26156505.265
5	DO.	229478.995	26156623.839
7	DO.	229382.173	26156547.040
9	DO.	229378.641	26156455.251
11	DO.	229238.911	26156344.284
12	DO.	229270.907	26156267.289
13	DO.	228965.928	26156310.294
14	DO.	228967.926	26156222.300
15	DO.	228761.942	26156321.298
16	DO.	228680.945	26156245.305
17	DO.	228039.996	26156600.295
18	DO.	228011.895	26156504.303
A	CENTERLINE PT.	229862.780	26156695.840
B	DO.	229545.955	26156536.761
C	DO.	229254.730	26156305.641
D	DO.	228966.898	26156266.358
E	DO.	228722.948	26156282.712
F	DO.	228025.986	26156552.285

N

0 100' 200'

8' LEGEND

- 0.0'
- 8.0'
- 9.0'
- 10.0'
- 11.0'
- >11.0'



LOCATION MAP

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

SURVEYED BY: K. KWASNY
DRAWN BY: K. KWASNY
REVIEWED BY:
APPROVED BY:
ISSUE DATE: 25-JUL-19
SOLICITATION NO.:
CONTRACT NO.:
DRAWING NUMBER: 31-C6/23
SIZE: ANSI D
FILE NAME: cedrvhhs19c.dgn

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
477 MICHIGAN AVE
DETROIT, MI 48226

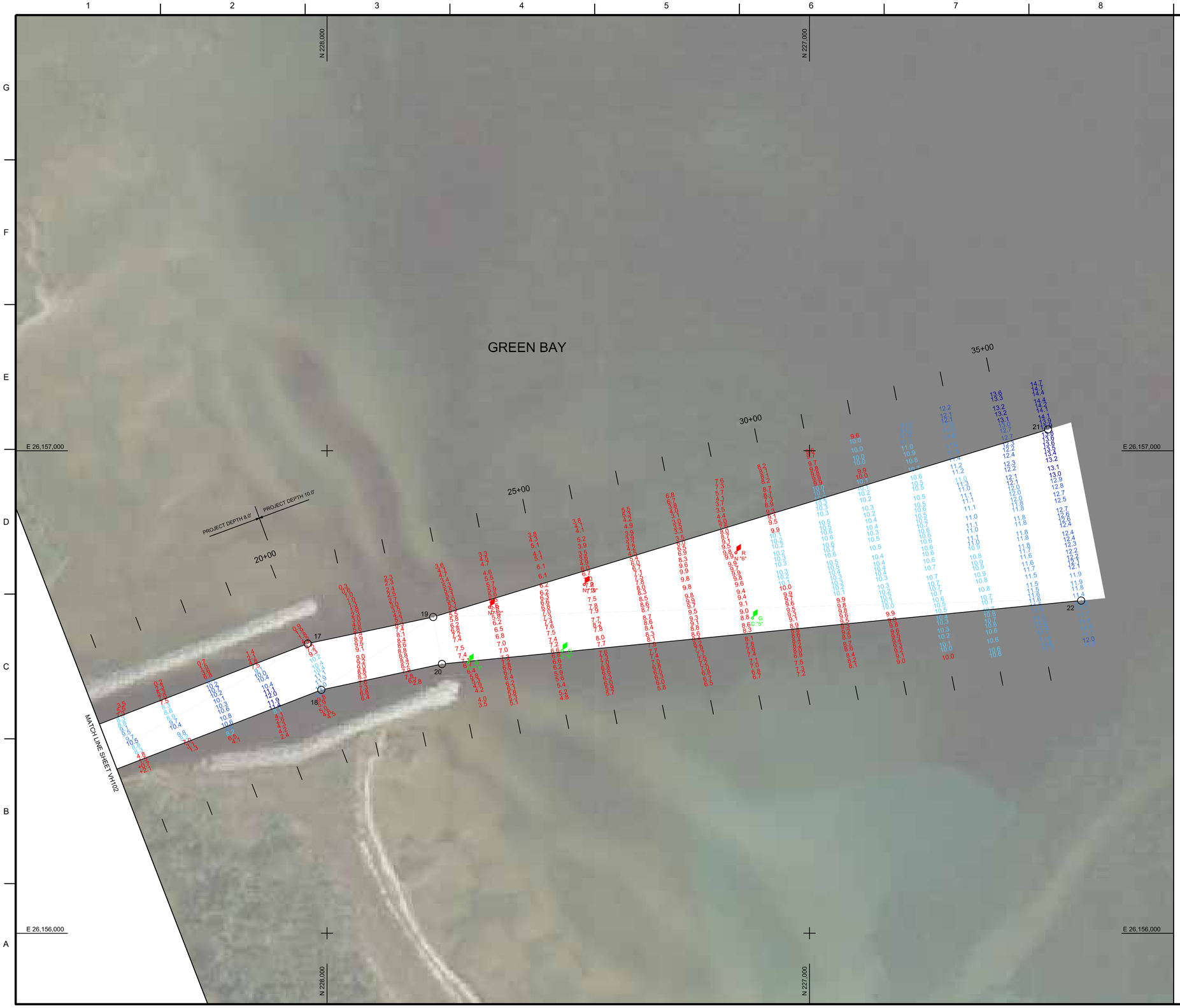
APPLETON AREA OFFICE
2619 E CAPITOL DRIVE
APPLETON, WI 54911

CEDAR RIVER HARBOR
MICHIGAN

CONDITION OF CHANNEL
JULY 2019

SHEET ID

VH101



NOTES:

SURVEY CONTROL AND BENCH MARK DATA IS AVAILABLE FROM THE DETROIT DISTRICT, ENGINEERING & TECHNICAL SERVICES, OPERATIONS TECHNICAL SUPPORT BRANCH, LAKE MICHIGAN AREA OFFICE, KEWAUNEE SUB-OFFICE.

THE COORDINATE GRID SYSTEM SHOWN IS REFERENCED TO THE MICHIGAN STATE PLANE COORDINATE SYSTEM, LAMBERT PROJECTION, NORTH ZONE 2111, NORTH AMERICAN DATUM 1983 (NAD83), US SURVEY FOOT.

ALL SOUNDINGS ARE IN FEET AND ARE REFERENCED TO LOW WATER DATUM ELEVATION, 577.5 FEET ABOVE MEAN WATER LEVEL AT RIMOUSKI, QUEBEC (INTERNATIONAL GREAT LAKES DATUM 1985).

PROJECT DEPTHS FOR THIS AREA ARE 8.0' & 10.0'.

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 AT THAT TIME.

THE SURVEY SHOWN WAS CONDUCTED BY THE LAKE MICHIGAN AREA OFFICE, KEWAUNEE SUB OFFICE SURVEY PARTY ON 22 JULY 2019, AN ODOM CV300 SOUNDER, AN APPLANIX WAVEMASTER WITH RTK CORRECTIONS FOR MOTION COMPENSATION AND POSITIONING, HYPACK 2017, AND SURVEY VESSEL LAUNCH 3063.

WATER LEVEL WAS DETERMINED USING RTK CORRETIONS FROM MDOT CORS.

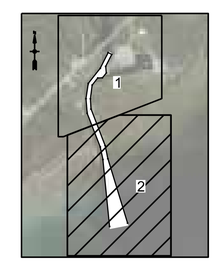
COORDINATE TABLE

STA.	DESCRIPTION	NORTHING	EASTING
15	CHANNEL PT.	228761.942	26156321.298
16	DO.	228680.945	26156245.305
17	DO.	228039.996	26156600.295
18	DO.	228011.895	26156504.303
19	DO.	227780.014	26156655.297
20	DO.	227761.813	26156558.005
21	DO.	226505.707	26157044.100
22	DO.	226437.003	26156889.400
E	CENTERLINE PT.	228722.948	26156282.712
F	DO.	228025.986	26156552.285
G	DO.	227770.914	26156606.651
H	DO.	226471.355	26156866.964

N

0 100' 200'

8' LEGEND	10' LEGEND
0.0'	0.0'
8.0'	10.0'
9.0'	11.0'
10.0'	12.0'
11.0'	13.0'
>11.0'	>13.0'



US Army Corps of Engineers®

MARK	DESCRIPTION	DATE

SURVEYED BY: K. KWASNY
DRAWN BY: K. KWASNY
REVIEWED BY:
APPROVED BY:
SIZE: ANSI D
FILE NAME: cedrhbr19c.dgn
ISSUE DATE: 25-JUL-19
SOLICITATION NO.:
CONTRACT NO.:
DRAWING NUMBER: 31-C26/24

U.S. ARMY CORPS OF ENGINEERS
DETROIT DISTRICT
477 MICHIGAN AVE
DETROIT, MI 48226

APPLETON AREA OFFICE
2819 E CAPITOL DRIVE
APPLETON, WI 54911

CEDAR RIVER HARBOR
MICHIGAN

CONDITION OF CHANNEL
JULY 2019

SHEET ID

VH102