



| HORIZONTAL CONTROL | | | |
|--------------------|-------------------------|--|--|
| | THIRD ORDER | | |
| | LESS THAN THIRD ORDER | | |
| | THIRD ORDER & BENCHMARK | | |
| | VALUE UNKNOWN | | |
| VERTICAL CONTROL | | | |
| | BENCHMARK | | |

| CENTER LINE T.P. | | | |
|------------------|---------------|------------|--|
| T.P. | EAST X | NORTH Y | |
| 20 | 13,246,669.81 | 744,535.89 | |
| 21 | 13,247,402.24 | 743,881.33 | |

| CHANNEL LINE T.P. | | | |
|-------------------|---------------|------------|--|
| T.P. | EAST X | NORTH Y | |
| 57 | 13,246,672.00 | 744,773.00 | |
| 57A | 13,246,911.67 | 744,453.96 | |
| 59 | 13,247,222.83 | 744,175.79 | |
| 60 | 13,246,807.96 | 744,430.24 | |
| 61 | 13,247,746.17 | 743,905.91 | |
| 62 | 13,247,314.69 | 743,798.64 | |

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. L.W.D. = 577.5' UNLESS OTHERWISE NOTED.

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

POSITIONING: APPLANIX POS-MV4 W/VR-S-RTK OR MARINESTAR G2+
MOTION COMPENSATION: APPLANIX POS-MV4
SONAR: R2 SONIC 2024
SOFTWARE: HYPACK 2018

4) WATER LEVELS USED WERE REFERENCED TO TBM FARM BUREAU.

5) THE SOUNDINGS INDICATED HEREON ARE GENERALIZED DEPTHS AND ARE NOT REPRESENTATIVE OF THE FULL DATASET. THE SOUNDINGS REPRESENT THE MINIMUM DEPTH FOUND WITHIN THE 10 FOOT BY 10 FOOT AVERAGE CENTERED ON THE TEXT. DERIVED FROM A 1 FOOT BY 1 FOOT AVERAGE DATASET AT CELL CENTER. THIS MAP SHOULD NOT BE USED FOR CHANNEL CLEARANCE OR VOLUME COMPUTATIONS. MINIMUM DEPTH DATA IS PRODUCED FOR STRIKE/SOAL REMOVAL OPERATIONS AND NOTICES TO NAVIGATION INTERESTS.

US Army Corps of Engineers

| | | | |
|---------------|---------------------|--------------|-------------------------|
| PROJECT NAME: | DETROIT DISTRICT | PROJECT NO.: | 6309 WEST JEFFERSON AVE |
| DATE: | 10/15/2018 | DATE: | 10/15/2018 |
| BY: | DETROIT AREA OFFICE | FILE NAME: | DETROIT.MI.46209 |
| DATE: | 10/15/2018 | FILE NAME: | DETROIT.MI.46209 |

SAGINAW RIVER

MICHIGAN

POST-DEGREE SURVEY

JULY 2018

SHEET IDENTIFICATION

SHEET 18 OF 19