1) ORDINARY HIGH WATER MARK (OHWM) = 580.5’
2) ALL PROPERTY AND/OR RIGHT OF WAY LINES ARE APPROXIMATE.
3) TOPOGRAPHIC SURVEY PROVIDED BY RUSSELL MARINE ENGINEERING & DESIGN LLC ON 06/01/2016.
4) TOPOGRAPHY SHOWN BASED ON DEPTH BELOW WATER ON DAY OF TOPOGRAPHIC SURVEY (JUNE 1, 2016).
5) WATER ELEVATION ON JUNE 1, 2016 = 580.18’
S61

SESC MATERIALS SUMMARY

1) ORDINARY HIGH WATER MARK (OHWM) = 580.5'
2) ALL PROPERTY AND/OR RIGHT OF WAY LINES ARE APPROXIMATE.
3) ALL QUANTITIES LISTED ARE APPROXIMATIONS.
4) INSTALL TURBIDITY CURTAIN AROUND WORK AREA DURING DREDGING OPERATIONS.
5) TOPOGRAPHIC SURVEY PROVIDED BY RUSSELL MARINE ENGINEERING & DESIGN LLC ON 06/01/2016.
6) SESC BMP'S UTILIZE MICHIGAN KEYING SYSTEM.

Seismic cable data used for: 1. Field correlation or 2. Seismic results secured.

SESC PLAN

NOTES

1) ORDINARY HIGH WATER MARK (OHWM) = 580.5'
2) ALL PROPERTY AND/OR RIGHT OF WAY LINES ARE APPROXIMATE.
3) ALL QUANTITIES LISTED ARE APPROXIMATIONS.
4) INSTALL TURBIDITY CURTAIN AROUND WORK AREA DURING DREDGING OPERATIONS.
5) TOPOGRAPHIC SURVEY PROVIDED BY RUSSELL MARINE ENGINEERING & DESIGN LLC ON 06/01/2016.
6) SESC BMP'S UTILIZE MICHIGAN KEYING SYSTEM.
**PROPOSED CONDITIONS**

1. **ORDINARY HIGH WATER MARK (OHWM) = 580.5’**
2. **ALL PROPERTY AND/OR RIGHT OF WAY LINES ARE APPROXIMATE.**
3. **ALL QUANTITIES LISTED ARE APPROXIMATIONS.**
4. **EXCAVATE APPROXIMATELY 100,500 CUBIC YARDS OF MARINE DEBRIS FROM 7.0 ACRES WITHIN DREDGE AREAS A & B TO VERTICAL LIMIT OF WOOD DEBRIS, OR AS APPROVED BY ENGINEER.**
5. **GRADE SIDE SLOPES BACK 2(V):1(H) WHERE APPLICABLE.**
6. **CONTRACTOR SHALL STOCKPILE AND DEWATER MATERIAL AT AN APPROVED SITE TO REDUCE MOISTURE CONTENT OF MILL DEBRIS. MATERIAL SHALL BE STOCKPILED AND DRIED A MINIMUM OF 60 DAYS WITH PHYSICAL TURN-OVER OF MATERIAL EVERY 30 DAYS.**
7. **WATER DEBRIS SHALL BE STOCKPILED AND DEWATERED TO CALCULATE THE APPROXIMATE QUANTITY OF MILL DEBRIS REMOVED FROM LAKE MUSKEGON.**
8. **ALTERNATE REUSE OF MILL DEBRIS SHALL BE CONSIDERED IF MATERIAL IS DETERMINED TO BE CLEAN BY THE OWNER.**

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**AS-BUILT RESTORATION SUMMARY**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>UNIT</th>
<th>QTY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RCS 04</strong></td>
<td><strong>CUBIC YARDS</strong></td>
<td><strong>56,513</strong></td>
</tr>
</tbody>
</table>

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**CONTRACTOR:**
RUSSELL MARINE LLC  
RICK BUTEYN  
PROGRESSIVE AE  
09/27/2018

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**NOTES**

- The findings of Progressive AE are based upon data supplied by Great Lakes Dock and Material, LLC from depths obtained on 06/27/2018 (pre-dredging) and on 09/06/2018 (post-dredging). This data was then analyzed by Progressive AE to find a difference in volume and therefore, calculate how much mill debris was removed from Lake Michigan. From the data supplied by Great Lakes Dock and Materials, a removal volume of 35,513 CY was calculated. This differs from the submitted total volume of 35,018 CY, a difference of 2.7% volume.

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**ATTENTION:**
- The scale bar does not represent 1:1. The original scale was 1" = 100'.
CROSS-SECTIONS:
DREDGE AREA A

1) SIDE SLOPES OF DREDGE AREA ARE 2(V):1(H)
2) VERTICAL SCALE IS EXAGGERATED 10X.
3) LIMIT OF MARINE DEBRIS REMOVAL IS 36.5' BELOW WATER SURFACE ELEVATION.

NOTE:

EXISTING GRADE

DREDGE AREA A

NORTH

0+50 0+00 1+00 2+00 3+00 4+00 5+00 6+00 7+00 8+00 9+00 10+00
-45 -40 -35 -30 -25 -20 -15 -10 -5 0

DREDGING VOLUME

EXISTING WATER

DEBRIS REMOVAL LIMIT

AS-BUILT

CONTRACTOR:
RUSSELL MARINE LLC

FIELD ENGINEER:
RICK BUTEYN

INSPECTED BY:
PROGRESSIVE AE

DATE:
09/27/2018
1) SIDE SLOPES OF DREDGE AREA ARE 2(V):1(H)
2) VERTICAL SCALE IS EXAGGERATED 10X
3) LIMIT OF MARINE DEBRIS REMOVAL IS 38' BELOW WATER SURFACE ELEVATION