

ADDENDUM NO. 3
Waterfront Park Shoreline Improvements

To all prospective bidders and others concerned:

YOU ARE HEREBY ADVISED THAT the Contract Documents for the above referenced Project are revised in the following particulars:

| Plan Sheet No. | Description of Change |
|-----------------------|---|
| Sheet C-5.0 | Previous design for gravel access drive has been removed and note has been added referring to C-5.1 for updated gravel access drive layout. |
| Sheet C-5.1 | Temporary gravel construction access road and asphalt restoration have been added to SESC Legend and Notes sheet. |

General/Clarifications

- Question #1 - Mulch bed now covers existing grassy area and partial sand volleyball court east of bath house. This represents different site conditions than shown on plans. Is this something temporary?
- Answer #1 - The area around the sand volleyball court can be used for stockpiling and then returned to lawn.

- Question #2 - Plans show 2x8 decking and notes call for Trex or alternate composite. What is the decking required on pier?
- Answer #2 -Price with 1"x5.5" Trex or alternate composite decking material.

- Question #3 - Is 1:1.75 ratio correct on the plans for boulder wall slope?
- Answer #3 - The ratio is correct. The vertical scale is exaggerated on the drawing.

- Question #4 - Plans call for 4x8 broken concrete fill when permit specifically excludes concrete as fill. Can limestone or natural rock be used?
- Answer #4 - Yes, limestone or other natural rock similar to broken concrete fill shall be used.

- Question #5 - Is fencing required around the work area?
- Answer #5 - Fencing is not required around the entire work area. The park will be closed to the public. Materials and equipment should not be stored on the parking lot, so a fence should be used for that purpose. Trees are to be protected.

- Question #6 - Soil investigation report provided by G2 project number 070183 and work on pavilion appear to be from another site in St. Clair Shores, not applicable to this project. Do you have any geotechnical information for this site?
- Answer #6 - The soil report from 2007 is from this site before a previous park renovation. The report is labeled incorrectly as St Clair Shores instead of Harrison Twp.

- Question #7 - Based on the observation of the video spec, there appears to be concern about the existing drive and parking area. Do you have any geotechnical information or as built on the existing drive and parking area to evaluate and determine the risk and ability to support the traffic of heavy trucks and equipment and staging of materials for the project?
- Answer #7 - See updated C-5.0 and C-5.1 for temporary construction access route. Route to have lawn stripped and built with 9" of 1x3 crushed aggregate topped with 3" of 21AA, in a 24' wide path. Repair entrance to park with asphalt. Remainder of parking lot can be used for construction worker parking. No materials or equipment shall be stored in parking lot.

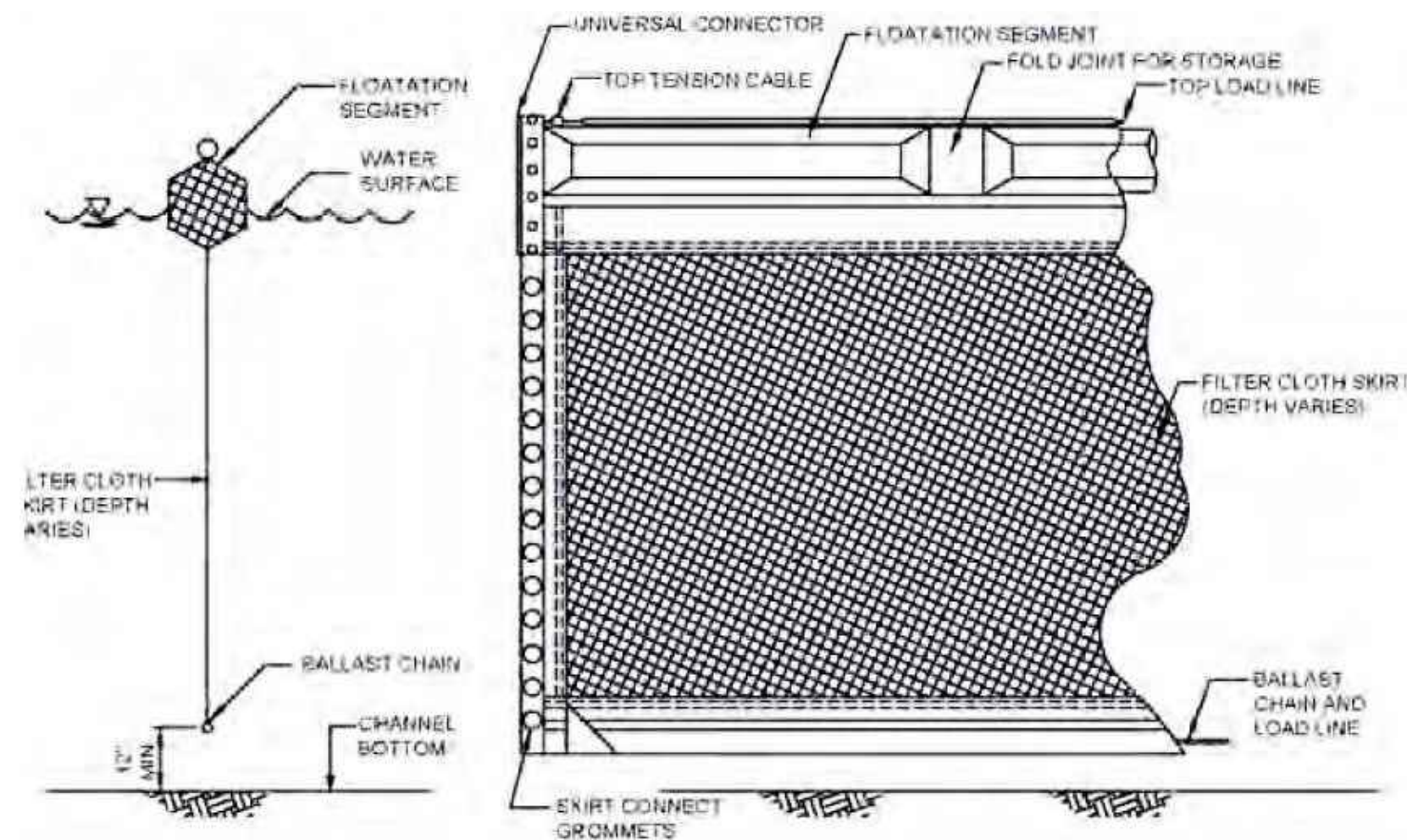
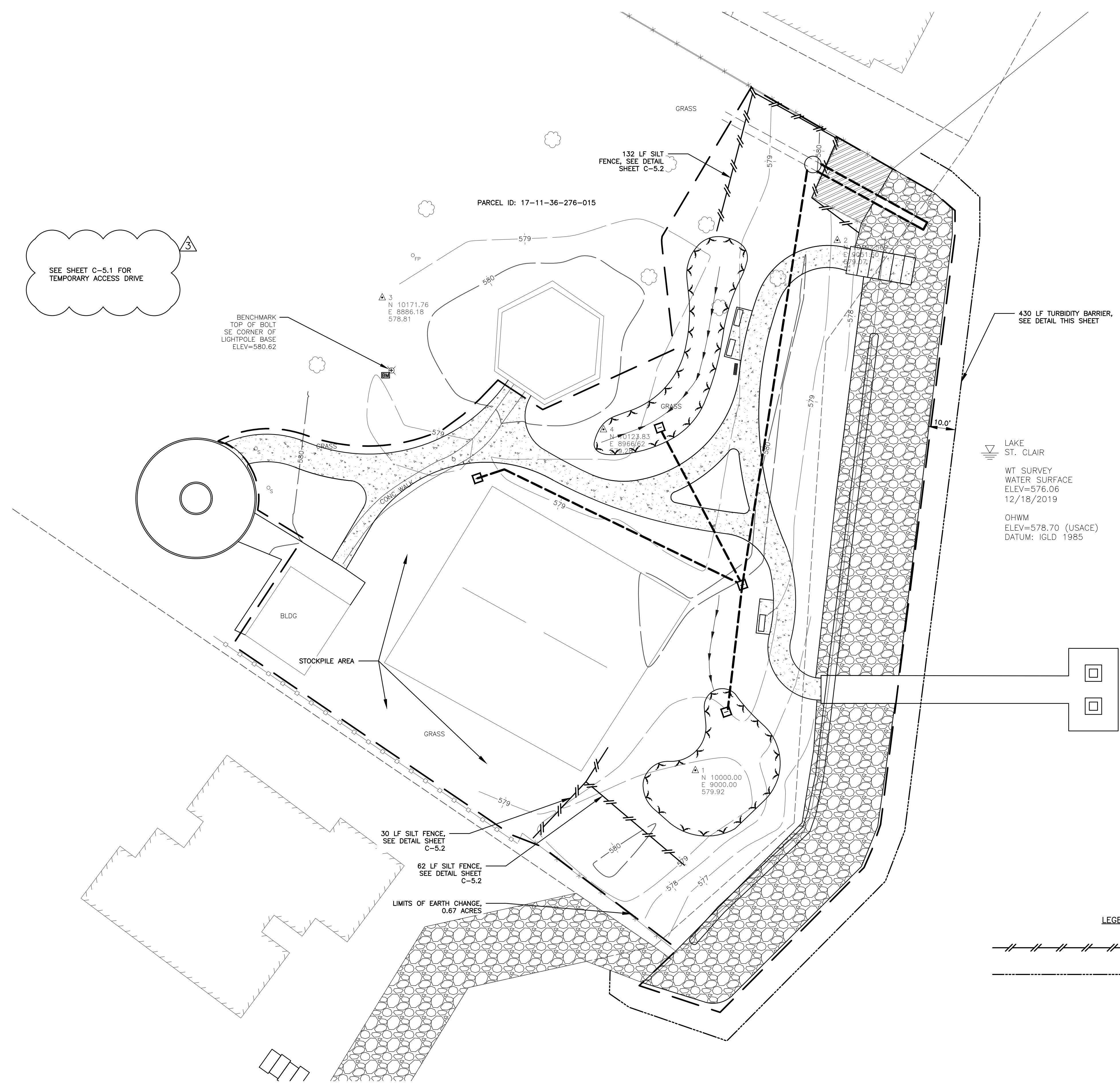
Addendum 3: 05/01/2024

This Addendum is hereby incorporated into the original Contract Documents for the bidding referred to above and is considered as binding as though originally appearing therein. The Bidder will be required to acknowledge the receipt of this Addendum on QuestCDN in order to submit a valid Bid. Any Bids that were submitted prior to issuance of this Addendum will not be valid until receipt of this Addendum is acknowledged on QuestCDN.

PROJECT MANAGER: TRIM, WOODRUFF, CLARK, MATTHEW
 FIELD BOOK INFORMATION: C-5.0 - PLOTTED 5/1/2024 11:13 AM BY CLARK, MATTHEW
 C:\PW\WORK\WADE-TRIM\WOODRUFF\CLARK\MATTHEW\SSC-PLAN.DWG - C-5.0 - PLOTTED 5/1/2024 11:13 AM BY CLARK, MATTHEW

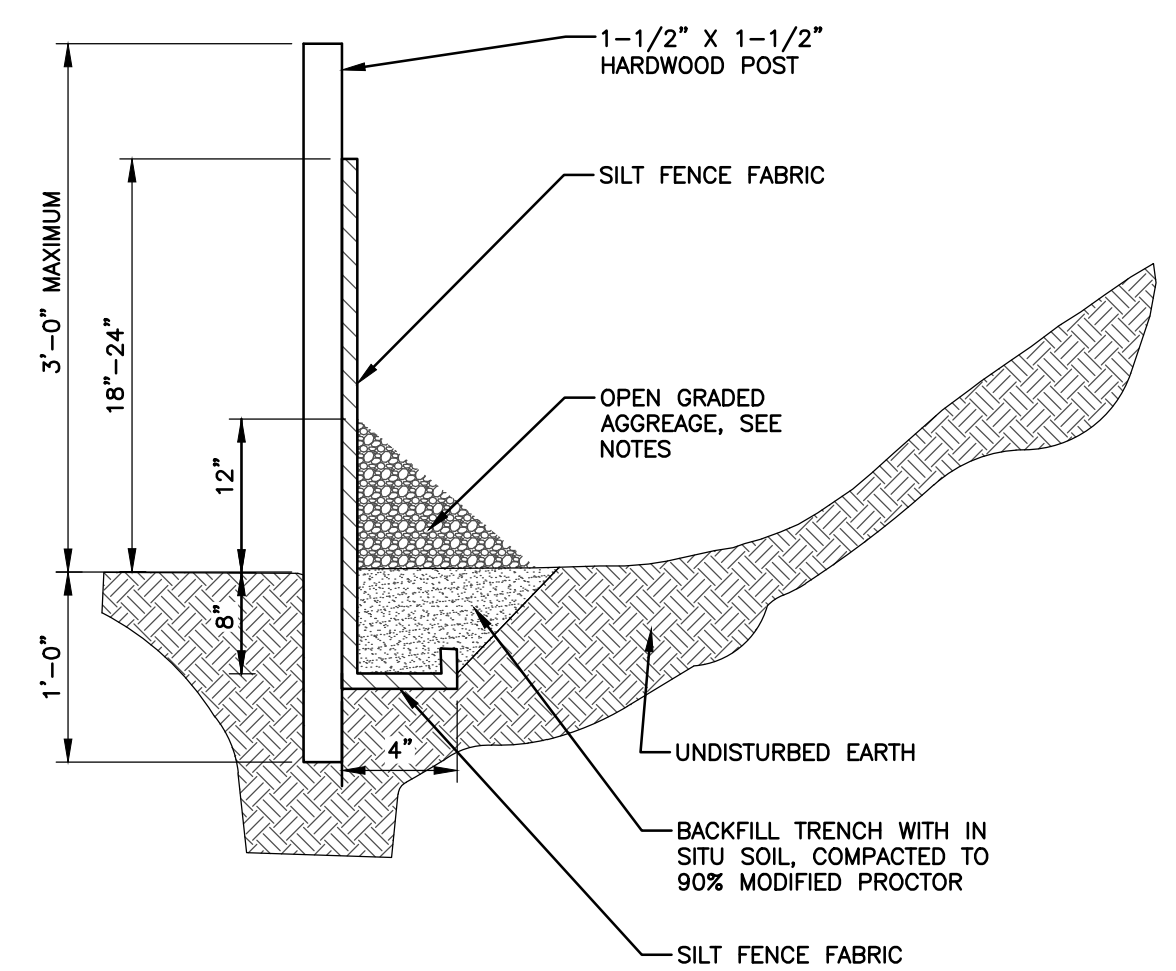


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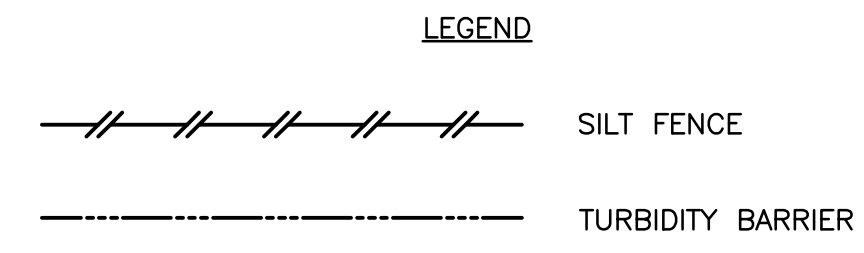
TURBIDITY BARRIER DETAIL
 NO SCALE

LEGAL DESCRIPTION
 SUPERVISOR'S PLAT NO. 4 LOT 23



SILT FENCE DETAIL
 NOT TO SCALE

NOTES:
 POST SPACING: 6-FOOT MAX
 FABRIC: 36 INCHES IN WIDTH, MUST MEET ASTM D6461, 4 FT MINIMUM OVERLAP AT JOINTS (ENDS).
 STONE: IF SILT FENCE IS DESIGNED AND UTILIZED AS A DIVERSION, PLACE OPEN GRADED AGGREGATE WASHED STONE 12 INCHES DEEP AT SILT FENCE AS SHOWN.
 CURL EACH END OF THE SILT FENCE UPHILL IN A "J" PATTERN TO PREVENT RELEASE OF UNTREATED STORM FLOWS.



| REV# | DATE | DESCRIPTION | BY |
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HARRISON TOWNSHIP
 WATERFRONT PARK
 SHORELINE IMPROVEMENTS
 SOIL EROSION AND SEDIMENTATION CONTROL PLAN

| | | |
|---------------------|---------------|---------|
| ISSUED FOR: ADD 2 | DATE: 4/10/24 | BY: MDC |
| JOB NO. HSN6004.03D | DATE: 4/29/24 | BY: MDC |
| SHEET C-5.0 | | |

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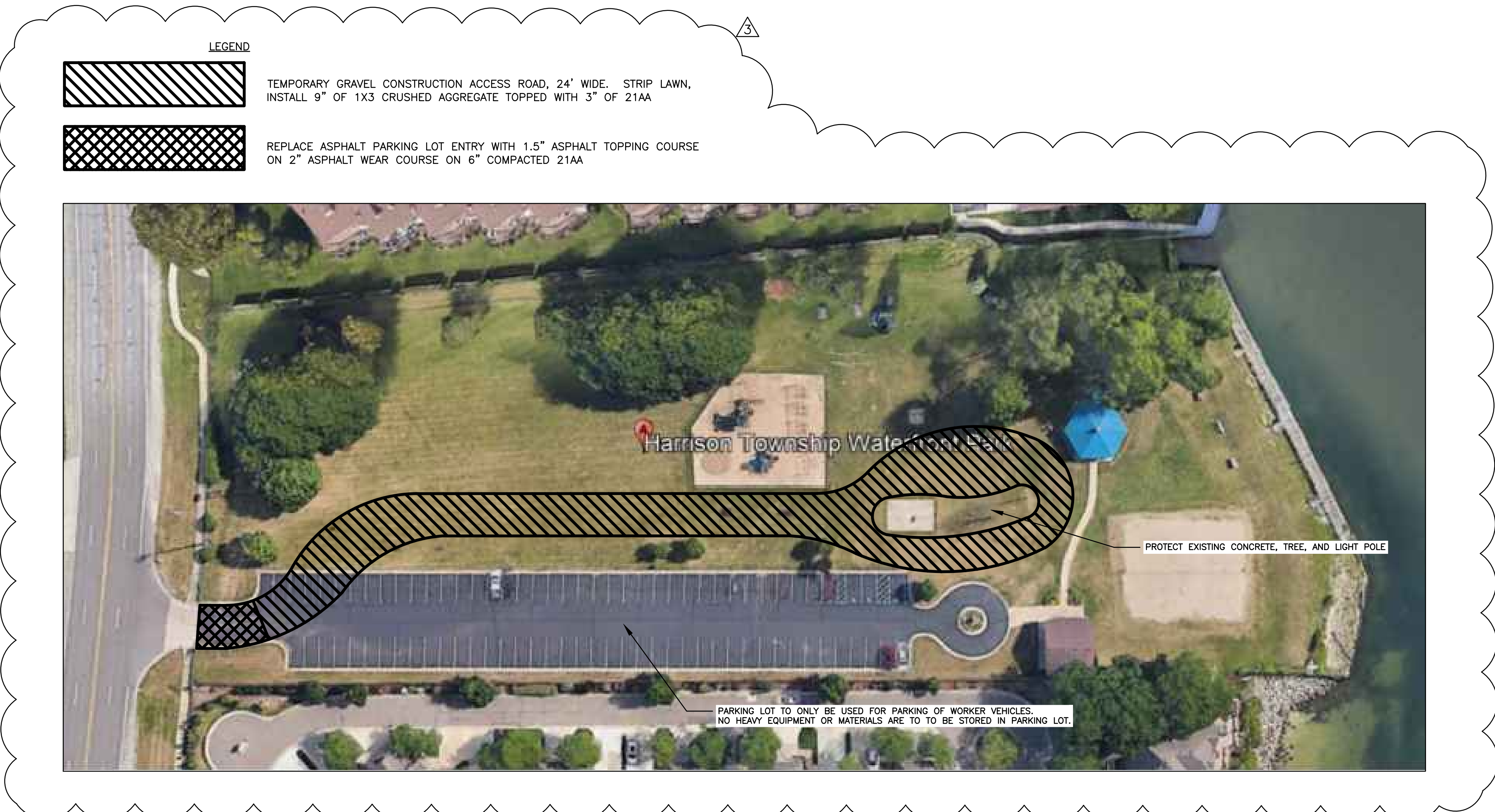
SOIL EROSION AND SEDIMENTATION CONTROL NOTES

MACOMB COUNTY PUBLIC WORKS OFFICE SOIL EROSION CONTROL NOTES

- THIS PROJECT SHALL BE CONSTRUCTED IN COMPLIANCE WITH PART 91 OF ACT 451 OF 1994, AS AMENDED, THE SOIL EROSION AND SEDIMENTATION CONTROL ACT AND THE MACOMB COUNTY SOIL EROSION AND SEDIMENTATION CONTROL ORDINANCE.
- ALL EROSION AND SEDIMENTATION CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE MACOMB COUNTY PUBLIC WORKS OFFICE.
- EROSION AND ANY SEDIMENTATION FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MAN MADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- STAGING THE WORK WILL BE DONE BY THE CONTRACTOR AS DIRECTED IN THESE PLANS AND AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED EARTH CHANGE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF SOIL EROSION AND SEDIMENTATION CONTROL DEVICES.
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN THE SOIL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS BEFORE AND AT ALL TIMES DURING CONSTRUCTION ON THIS PROJECT. ANY MODIFICATIONS OR ADDITIONS TO SOIL EROSION CONTROL MEASURES DUE TO CONSTRUCTION OR CHANGED CONDITIONS SHALL BE COMPLIED WITH AS REQUIRED OR DIRECTED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE.
- IF ANY OF THE SESC MEASURES ON THE SITE ARE DEEMED INADEQUATE OR INEFFECTIVE, THE MACOMB COUNTY PUBLIC WORKS OFFICE SESC DIVISION HAS THE RIGHT TO REQUIRE ADDITIONAL SESC MEASURES AT THE EXPENSE OF THE CONTRACTOR.
- INSTALL 9" OF 1"x3" CRUSHED AGGREGATE TOPPED WITH 3" OF 21AA ACCESS DRIVE PLACED ON GEOTEXTILE FABRIC AS INDICATED ON THE PLAN. NEW LAYERS OF CRUSHED CONCRETE WILL BE ADDED AS OLD LAYERS BECOME COMPACTED.
- INSTALL SILT FENCE AS INDICATED ON THE PLANS AND AT ADDITIONAL AREAS AS NECESSARY.
 - SILT FENCE SHALL BE INSTALLED PER DETAIL.
 - BUILD UP OF SEDIMENT SHALL BE REMOVED WHEN SEDIMENT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE SILT FENCE.
 - IF SILT FENCE FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE SILT FENCE SHALL BE REPLACED PROMPTLY.
 - SILT FENCE SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONGED RAIN EVENT. REQUIRED MAINTENANCE SHALL BE PROVIDED PROMPTLY.
- INSTALL INLET FILTER ON ALL PAVEMENT CATCH BASINS PER DETAIL.
 - INLET FILTERS SHALL BE INSPECTED WEEKLY UNDER NORMAL CONDITIONS, WITHIN 24 HOURS OF RAINFALL AND DAILY DURING A PROLONGED RAIN EVENT.
 - BUILDUP OF SEDIMENT AND DEBRIS SHALL BE REMOVED PROMPTLY.
 - IF FABRIC DECOMPOSES OR BECOMES INEFFECTIVE PRIOR TO THE END OF EXPECTED USABLE LIFE AND THE BARRIER IS STILL REQUIRED, THE FABRIC SHALL BE REPLACED PROMPTLY.
- UTILITIES AND PUMP STATION
 - THE ROAD RIGHT OF WAY MUST BE SEEDED AND MULCHED WITHIN 5 CALENDAR DAYS AFTER UTILITIES HAVE BEEN INSTALLED. IF THIS IS NOT POSSIBLE, ALL SESC MEASURES MUST STAY IN PLACE AND MUST BE MAINTAINED UNTIL PERMANENT STABILIZATION IS COMPLETED.
- ALL STOCKPILED SOILS SHALL BE MAINTAINED IN SUCH A WAY AS TO PREVENT EROSION FROM LEAVING THE SITE. IF THE STOCKPILE WILL BE ON SITE FOR MORE THAN 30 DAYS, THEN THE STOCKPILE MUST BE SEEDED. SILT FENCE MUST BE INSTALLED AROUND THE PERIMETER OF THE STOCKPILE.
- IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW, SPREAD UNIFORMLY AT A RATE OF 1 TO 2 TONS PER ACRE OR 100 POUNDS (2-3 BALES) PER 1,000 SQUARE FEET. THIS MULCH SHOULD BE ANCHORED WITH DISC TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE MACOMB COUNTY PUBLIC WORKS OFFICE. MULCH MATTING MAY BE USED IN LIEU OF LOOSE MULCH.
- IF ANY DEWATERING IS NEEDED, IT SHALL BE DISCHARGED THROUGH A FILTER BAG OVER A WELL VEGETATED AREA. THE PUMP MUST DISCHARGE AT A NON-EROSIVE VELOCITY. IF NECESSARY, AN APPROVED ENERGY DISSIPATER MAY BE USED.
- ALL DIRT TRACKED ONTO ANY ROADWAY SHALL BE REMOVED IMMEDIATELY.
- STREETS AND OR PARKING AREAS SHALL BE SCRAPED ON A DAILY BASIS.
- DURING DRY PERIODS, ALL DISTURBED AREAS SHALL BE WATERED FOR DUST CONTROL.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 5 CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION MEASURES SHALL BE IMPLEMENTED IMMEDIATELY. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED.
- FINAL GRADE, ESTABLISH VEGETATION, AND/OR LANDSCAPE ALL DISTURBED AREAS NOT BUILT OR PAVED UPON.
- REMOVE ALL TEMPORARY SOIL EROSION DEVICES AFTER PERMANENT STABILIZATION IS ESTABLISHED.
- SOIL TYPES:
 - La - LAMSON FINE SANDY LOAM
 - Msb - MINOA FINE SANDY LOAM, 0 TO 4 PERCENT SLOPES
- DISTANCE TO NEAREST WATERCOURSE IN FEET: 0
- NAME OF NEAREST WATERCOURSE: Lake St. Clair
- APPROXIMATE START DATE ON : SEPTEMBER 1, 2024
- APPROXIMATE COMPLETION DATE ON : JUNE 30, 2025
- TOTAL ACRES DISTURBED = 0.8 ACRES.
- DESIGNATED CONTACT FOR ALL TEMPORARY/PERMANENT SOIL EROSION CONTROL MEASURES:
 - MR. JUSTIN MURPHY
 - DIRECTOR OF ENGINEERING SERVICES
 - CHARTER TOWNSHIP OF HARRISON PH:(586) 466-1447
- NO HEAVY EQUIPMENT OR MATERIALS TO BE STORED IN PARKING LOT.

| SEQUENCE FOR CONSTRUCTION - SESC | | SCHEDULE | |
|----------------------------------|---|------------|----------|
| | | START DATE | END DATE |
| 1 | INSTALL INLET FILTERS, REMOVE AT PROJECT COMPLETION | 09/2024 | 06/2025 |
| 2 | INSTALL TEMPORARY CRUSHED CONCRETE SITE ACCESS DRIVE, REMOVE AFTER COMPLETION OF PROJECT AND REPLACE ASPHALT AS NEEDED AT ENTRY | 09/2024 | 06/2025 |
| 3 | INSTALL FLOATING TURBIDITY CURTAIN, REMOVE AFTER COMPLETION OF PROJECT | 09/2024 | 06/2025 |
| 4 | INSTALL SILT FENCE, REMOVE AFTER COMPLETION OF PROJECT | 09/2024 | 06/2025 |
| 5 | INSTALL TOPSOIL, SEED AND MULCH AS NECESSARY IN RESTORATION AREAS | 04/2024 | 06/2025 |

- Notes:
- CONTRACTOR SHALL SUBMIT EXACT SCHEDULE TO HARRISON TOWNSHIP FOR REVIEW AND APPROVAL PRIOR TO OBTAINING PERMIT.



LEGEND

- TEMPORARY GRAVEL CONSTRUCTION ACCESS ROAD, 24' WIDE. STRIP LAWN, INSTALL 9" OF 1X3 CRUSHED AGGREGATE TOPPED WITH 3" OF 21AA
- REPLACE ASPHALT PARKING LOT ENTRY WITH 1.5" ASPHALT TOPPING COURSE ON 2" ASPHALT WEAR COURSE ON 6" COMPACTED 21AA

PROJECT MANAGER: C:\PW_WORK\WADE-TRIM\MOCLARK\101257272\PLANS-SESC-LEGEND-AND-NOTES.DWG - C-5.1 - PLOTTED: 5/1/2024 11:10 AM BY: CLARK, MATTHEW



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SOIL EROSION AND SEDIMENTATION CONTROL
LEGEND AND NOTES

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| BID | 4/10/24 | MDC |
| ADD 2 | 4/29/24 | MDC |
| ADD 3 | 5/1/24 | MDC |
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| SHEET | C-5.1 | |

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