

APPROVED

By Andrew McCreight at 9:28 am, Jul 10, 2025

INFILTRATION FACILITY ESC NOTES

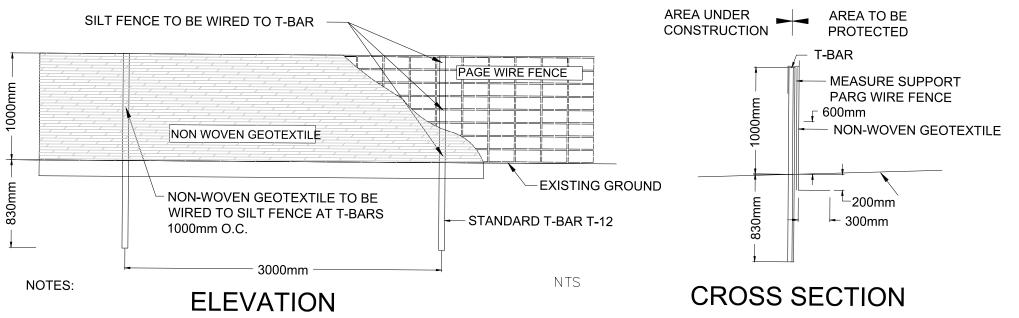
- 1. CONTRACTOR TO COMPLETE INFILTRATION TESTING IN LOCATION OF PROPOSED INFILTRATION FACILITY AT THE PROPOSED INVERT ELEVATION TO CONFIRM INFILTRATION RATE PRIOR TO AQUABOX INSTALLATION.
- 2. DURING CONSTRUCTION, PROVISIONS SHALL BE MADE FOR PROPER WATER MANAGEMENT AND DRAINAGE OF THE SITE. THIS SHALL INCLUDE ALL APPLICABLE SILT TRAPS, ALL EROSION CONTROL MEASURES, TEMPORARY WATER COLLECTION DITCHES AND OVERFLOW STRUCTURES DENOTED WITHIN THIS ESC PLAN, AS WELL AS THE PROPER MAINTENANCE OF SUCH THROUGHOUT THE CONSTRUCTION PERIOD. AT NO TIME SHALL SEDIMENT LADEN WATER BE ALLOWED TO ENTER THE EXCAVATED/BACKFILLED OR COMPLETED INFILTRATION CHAMBER AREA. PRIOR TO THE COMPLETION OF ROOFTOP AREAS FOR BUILDING(S) CONNECTING TO INFILTRATION FACILITY, AS WELL AS CONNECTION OF THE OUTLET TO THE STORM SEWER VIA UNDERGROUND PARKING GARAGE, NO SITE DRAINAGE AND/OR STORM DRAINAGE IS TO ENTER THE PROPOSED INFILTRATION CHAMBER AREA. SHOULD SEDIMENT ENTER THE FACILITY PRIOR TO RECEIVING APPROVAL FROM FIELD ENGINEER, THE INFILTRATION RATE OF THE CONTAMINATED AREA SHOULD BE TESTED USING THE GUELPH PERMEAMETER TEST OR DOUBLE-RING INFILTRATION TEST, TO CONFIRM NO LOSS IN INFILTRATION POTENTIAL. SHOULD A LOSS OF INFILTRATION CAPACITY BE CONFIRMED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR/ REMEDIATION OF THE CONTAMINATED AREA TO THE SATISFACTION OF THE CLIENT/ ENGINEER/ LANDSCAPE ARCHITECT, USING APPROVED MEASURES/ MATERIALS AND PRACTICES.
- 3. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED / AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREAS. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, THEN ALTERNATIVE MEASURES SHOULD BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS.
- 4. ADHERENCE TO CONSTRUCTION SEQUENCING IS REQUIRED AS PART OF THE ESC PLAN. CONSTRUCTION SEQUENCING IS AN INTEGRAL COMPONENT OF ESC PROCEDURES/ PRACTICES AND HAS BEEN DESIGNED IN ORDER TO ENSURE THAT NO CONTAMINATION/ REDUCTION IN INFILTRATION CAPACITY TAKES PLACE AS A RESULT OF
- 5. TEMPORARY SEDIMENT CONTROLS TO BE INSTALLED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED WITHIN 48 HOURS OF THE INSPECTION.
- 6. SEDIMENT LOG/SOCKS, HEAVY DUTY SEDIMENT FENCE, OR APPROVED EQUIVALENT SHALL BE INSTALLED ALONG THE PERIMETER OF THE EXCAVATION AREA OF THE INFILTRATION CHAMBER WITH A 0.5m SETBACK PRIOR TO FACILITY CONSTRUCTION TO PREVENT SEDIMENT ENTRY INTO THE INFILTRATION CHAMBER.
- 7. ANY AND ALL ACCUMULATED AND/OR STORED WATER WITHIN THE EXCAVATED AREAS SHALL BE ALLOTTED SUFFICIENT TIME TO SETTLE OUT SUSPENDED SEDIMENTS AS DETERMINED BY THE FIELD ENGINEER PRIOR TO PUMPING/DISCHARGE TO A DESIGNATED AREA AND SEDIMENT BAG.
- 8. AFTER THE COMMENCEMENT OF EXCAVATION, SHOULD A SIGNIFICANT STORM EVENT OCCUR THAT FILLS OR PARTIALLY FILLS THE EXCAVATED AREA/CONSTRUCTION SITE, PUMPING SHOULD BE UNDERTAKEN AS PER NOTE 6.
- 9. NO RUNOFF FROM THE EXCAVATED AREA AND UNVEGETATED AREAS SHALL BE DISCHARGED OFF SITE INTO ACTIVE AND/OR INACTIVE STORM SEWERS. SEE NOTE 6 ABOVE.
- 11. THE CONTRACTOR SHALL DELINEATE THE REQUIRED WORKING AREA ON-SITE PRIOR TO THE START OF WORK AND SHALL CONFINE OPERATIONS WITHIN THE DEFINED
- 12. TEMPORARY TOPSOIL AND/OR FILL MATERIAL STOCKPILE AREAS TO BE ENCLOSED WITH SILTATION CONTROL FENCE. MATERIALS ARE NOT TO BE STOCKPILED UPSTREAM OF PROPOSED FACILITY LOCATION(S).
- 13.LOCATION OF STOCKPILE AREAS TO BE DETERMINED ON-SITE PRIOR TO CONSTRUCTION AND APPROVED BY THE ENGINEER
- 14. WORKING AREAS, ACCESS REQUIREMENTS, AND TEMPORARY MATERIAL STORAGE AREAS TO BE MAINTAINED IN GOOD CONDITION BY THE CONTRACTOR AT ALL TIMES. AREAS AFFECTED BY THE CONTRACTOR'S ACTIVITIES TO BE REINSTATED TO THE EXISTING CONDITIONS OR BETTER.
- 15.NO RUNOFF FROM EXCAVATED OR UNVEGETATED AREAS SHALL BE DISCHARGED OFF SITE INTO ACTIVE AND/OR INACTIVE STORM SEWERS OR WATERCOURSES.
- 16. ALL ACCUMULATED SEDIMENTS TO BE REMOVED PRIOR TO THE REMOVAL OF CONTROLS AND DISPOSED OF IN AN APPROVED ON-SITE LOCATION BY THE CONTRACTOR (LOCATION TO BE DETERMINED IN THE FIELD).

17. ON-SITE EQUIPMENT REFUELING AND MAINTENANCE TO BE ONLY COMPLETED IN DESIGNATED AREAS.

- 18. ALL SEDIMENT CONTROLS TO BE INSPECTED DAILY AND AFTER EACH RAINFALL EVENT. SEDIMENT CONTROLS TO BE MAINTAINED AND REPAIRED BY THE CONTRACTOR UNTIL COMPLETION OF CONSTRUCTION AND SITE RESTORATION FOR BOTH CONSTRUCTION PHASES.
- 19. ANY DAMAGE TO EXISTING FEATURES OR SURFACES DUE TO CONSTRUCTION ACTIVITY SHALL BE REINSTATED TO EXISTING CONDITIONS OR BETTER PRIOR TO COMPLETION OF CONSTRUCTION ACTIVITIES ON SITE TO THE SATISFACTION OF THE RELEVANT AGENCIES, THE CLIENT, AND/OR THE SITE ENGINEER.
- 20.ALL ROADWAYS TO BE CLEANED OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
- 21.EROSION PROTECTION TO BE PROVIDED AROUND ALL EXISTING STORM AND SANITARY MHs, DICBs AND CBs PRIOR TO CONSTRUCTION.
- 22.REMOVE TEMPORARY SEDIMENT CONTROLS FOLLOWING COMPLETION OF BOTH PHASES OF CONSTRUCTION AND SITE RESTORATION, AND REINSTATE AFFECTED AREAS TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE RELEVANT AGENCIES, THE CLIENT, AND/OR THE SITE ENGINEER.
- INFILTRATION FACILITY CONSTRUCTION SEQUENCING NOTES
- 1. EROSION AND SEDIMENTATION PROTECTION MEASURES ARE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY AND ALL EXCAVATION ACTIVITIES.
- . ROUGH EXCAVATION OF BOTH THE INFILTRATION AND QUANTITY CONTROL FACILITIES IS PERMITTED TO A MAXIMUM 100mm OF FINAL GRADE AT INVERT OF 19mm LEVELING COURSE ANGULAR STONE. FINAL GRADE OF BOTH FACILITIES TO BE EXCAVATED IMMEDIATELY PRIOR TO BACKFILLING WITH SPECIFIED AGGREGATE AVOID PREMATURE FACILITY CLOGGING OF STONE LAYERS.
- 3. EXCAVATION, 19mm ANGULAR STONE BACKFILLING AND CHAMBER INSTALLATION IS ONLY TO OCCUR AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
- I. EXCAVATION OF FINAL 100mm OF NATIVE MATERIAL TO FINAL FACILITY INVERT AS PER DESIGN DRAWINGS. SURFACE OF EXCAVATION SHALL BE SCARIFIED PRIOR TO INSTALLATION OF BACKFILL MATERIALS.
- 5. INSTALL AQUABOX CHAMBER COMPONENTS TO SPECIFIED LOCATIONS AND DEPTHS AS MARKED ON THE ASSOCIATED DESIGN DRAWINGS. MAKE ALL REQUIRED PIPE
- 6. APPLY19mm ANGULAR STONE IN 300mm LIFTS UNTIL DESIRED ELEVATION IS ACHIEVED.
- . SURFACE INSTALLATION:
- A. APPLY AND COMPACT BACKFILL MATERIAL/PARKING LOT SUB BASE MATERIALS APPROVED BY THE CONTRACT ADMINISTRATOR TO MINIMUM 300mm THICKNESS.
- B. INSTALL PROPOSED IMPERVIOUS/PERVIOUS SURFACE MATERIALS ABOVE INFILTRATION FACILITY AREA AS PER DESIGN DRAWING

CONSTRUCTION PHASING NOTES

- PHASE 1 INFILTRATION FACILITY: SHALL BE CONSTRUCTED FIRST TO ALLOW FOR CONSTRUCTION ACCESS VIA THE SITE ENTRANCEWAY OFF RUE OSHEDINAA STREET.
- PHASE 2 WATER QUANTITY CONTROL FACILITY: CONSTRUCTION SHALL COMMENCE ONLY AFTER COMPLETE INSTALLATION OF THE PHASE 1 FACILITY. INCLUDING CONNECTION OF ROOF LEADER INLET PIPE TO INFILTRATION FACILITY. EROSION AND SEDIMENT CONTROLS ARE TO REMAIN IN PLACE UNTIL ALL CONSTRUCTION AND RESTORATION WORKS FOR PHASE 2 HAVE BEEN COMPLETED



- SILTATION CONTROL FENCE TO BE TERRAFIX TERRAFENCE, OR EQUIVALENT, OR CONSTRUCTED AS INDICATED BELOW.
- GEOTEXTILE TO BE NON-WOVEN WITH A MINIMUM EQUIVALENT OPENING SIZE OF 0.15mm AND A MAXIMUM **EQUIVALENT OPENING SIZE OF 0.25mm**
- NON-WOVEN GEOTEXTILE TO HAVE A HORIZONTAL OVERLAP OF 1 METER AT JOINTS.
- SILT FENCE TO BE UV STABILIZED HIGH DENSITY POLYETHYLENE OR APPROVED EQUAL.





DRAWINGS WERE PREPARED BY AQUAFOR BEECH LTD FOR THE ACCOUNT ON" TITLE BLOCK OF THESE DRAWINGS. AQUAFOR BEECH LTD ACCEPTS ISIBILITY FOR DAMAGES, IF ANY, SUFFERED AS A RESULT OF THE USE SE DRAWINGS OUTSIDE THE INTENDED USE AND AFOREMENTIONED LIMITATION

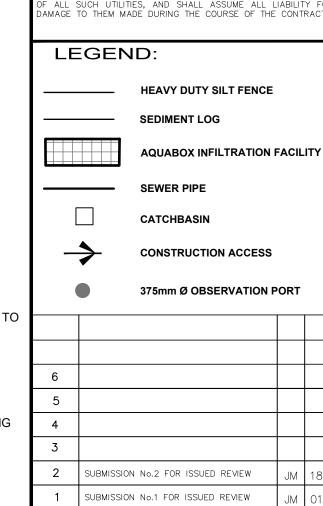
GENERAL NOTES:

DIMENSIONS ARE IN METRIC UNITS. HE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT AND SURVEY ONTROL DURING CONSTRUCTION. E CONTRACTOR IS RESPONSIBLE FOR LOCATION OF ALL EXISTIN THE CONTRACTOR SHALL DELINEATE THE REQUIRED WORKING AF ON—SITE PRIOR TO THE START OF WORK AND SHALL CONF OPERATIONS WITHIN THE DEFINED AREA. ALL ACTIVITIES, MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREV F PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTH ELETERIOUS SUBSTANCES INTO ANY WATER/WATERCOURSE/WETLA JATURAL FEATURE. STORM SEWER OR SANITARY SEWER. ROSION AND SEDIMENT CONTROL MEASURES (AND TREE/SHRU

PROTECTION BARRIERS) WILL BE IMPLEMENTED PRIOR TO AN MAINTAINED DURING THE CONSTRUCTION PHASES TO PREVENT ENTR OF SEDIMENT INTO THE INFILTRATION FACILITY. THESE EROSION AN SEDIMENT CONTROL MEASURES WILL BE REMOVED FOLLOWN CONSTRUCTION COMPLETION AND WHEN DISTURBED AREAS HAVE BEE STABILIZED AND VEGETATION ESTABLISHED.
ALL AREAS WHICH REMAIN DISTURBED FOR MORE THAN 30 DAY
MUST BE STABILIZED TO THE SATISFACTION OF THE RELEVAN
AGENCIES, THE CLIENT AND OR THE SITE ENGINEER. SITE RESTORATION TO BE IN ACCORDANCE WITH THE LANDSCAF REHABILITATION PLANS AND DETAILS. HE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL O SEDIMENT AND EROSION CONTROL MEASURES SHALL NSPECTED DAILY TO ENSURE THAT THEY ARE FUNCTIONING PROPER AND ARE MAINTAINED AND/OR UPGRADED AS REQUIRED

POSITION OF THE POLE LINES, CONDUITS, WATERMAINS, SEWERS OTHER UTILITIES AND STRUCTURES ARE N O T NECESSARILY OWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE CURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS

EFORE STARTING WORK
HE CONTRACTOR SHALL CONFIRM THE POSITION AND EXACT LOCATION
F ALL SUCH UTILITIES, AND SHALL ASSUME ALL LIABILITY FOR ANY
AMAGE TO THEM MADE DURING THE COURSE OF THE CONTRACT WORK.



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REVISIONS

By Date



Project Title

BLOCK 6 STORMWATER MANAGEMENT **INFILTRATION FACILITY DESIGN**



Drawing Title

EROSION & SEDIMENT CONTROL PLAN

1:150

18/02/2025 K.M Project No. Drawing No. 67564