7154023-100000-41-D70-0001

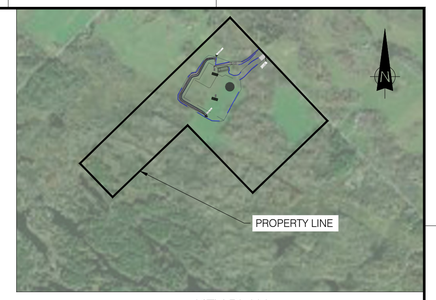
PERMANENT POOL REQUIERMENT : 1388 m³ FOR 7.5 HA
PERMANENT POOL DESIGN (l m DEPTH) : 1526 m³
ACTIVE STORAGE REQUIRED : 1388 m³ FOR 7.5 HA
ACTIVE STORAGE DESIGN (0.7 m DEPTH) : 1424 m³

EXISTING STREAM

PROPOSED PROJECT OUTLINE

MARCHURST ROAD

5029000.000



KEY PLAN
SCALE: N.T.S.

EROSION CONTROL SEQUENCE :

1. INSTALL ALL THE SILT FENCES AROUND THE SITE, THE STEEL CROSSING PLATES AND THE CHECK DAMS (7154023-100000-41-D70-0001-01)
2. CONSTRUCT THE SURFACE WATER FEATURE TO ROW (RIGHT OF WAY) (7154023-100000-41-D70-0001-02)
   - ENSURE THE VEGETATION IS INSTALLED
   - INSTALL THE CHECK DAMS
3. CONSTRUCT THE TEMPORARY POND (7154023-100000-41-D70-0001-03)
4. CONSTRUCT THE WATER COURSE REALIGNMENT WITHOUT AFFECTING THE EXISTING STREAM (7154023-100000-41-D70-0001-04)
   - EXCAVATION NEEDS TO ENSURE SEDIMENTS CAN'T FLOW TO EXISTING POND OR WATERCOURSE
   - THE CONNECTION TO THE EXISTING WATER COURSE WILL BE DONE LATER ONCE THE VEGATATION HAS BEEN PROPERLY INSTALLED
   - PUMP ANY WATER COLLECTED IN THE REALIGNED WATERCOURSE BEFORE STEP 5 IN THE TEMPORARY POND (CONSTRUCTION METHOD)
5. WHEN THE REALIGNED WATERCOURSE'S IS FULLY EXCAVATED AND THE VEGETATION IS INSTALLED, IT CAN BE CONNECTED TO THE EXISTING WARECOURSE (7154023-100000-41-D70-0001-05)
   - ENSURE NO SEDIMENTS CAN FLOW FROM THE EXCAVATION TO THE EXISTING POND
6. MANAGE THE ON SITE WATER FROM THE EXISTING WATERCOURSE BEFORE BEGINNING THE BACKFILL WORK (7154023-100000-41-D70-0001-06)
   - USE THE TEMPORARY POND TO DEWATER THE SITE IF PONDING WATER IS PRESENT
   - EARTHWORK CAN BEGIN.

PLAN VIEW
SCALE 1:1000

SCALE 1:1000 20 10 0 20 40 60 80 100 m

LEGEND:

- EXISTING FENCE
- TEMPORARY SINGLE ROW SILT FENCE
- EXISTING HYDRO POLE
- TREE LINE
- PROPOSED WORK OUTLINE
- EXISTING GRADE ELEVATION
- PROPOSED CULVERT
- MUD MAT

FOR PERMITTING

SEDIMENT AND EROSION CONTROL NOTES:

1. CONTRACTOR IS RESPONSIBLE TO REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, AND ANY OTHER SUBSTANCE THAT MAY ACCUMULATE IN ANY PART OF THE STORM DRAINAGE SYSTEM, EASEMENT AND RIGHT OF WAY (ROW).
2. THE CONTRACTOR MUST FOLLOW ALL DETAIL AND INSTRUCTION SET OUT IN THE "EROSION AND SEDIMENT CONTROL GUIDE FOR URBAN CONSTRUCTION" PREPARED BY THE STEP AND TORONTO REGION CONSERVATION AUTHORITY.
3. ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND PROJECT COMPLETION SHALL BE OPERATED AND STORED IN A MANNER THAT PREVENTS ANY DELETERIOUS SUBSTANCE (i.e. PETROLEUM PRODUCTS DEBRIS) FROM ENTERING ANY WATERCOURSES.
4. STOCKPILES MUST BE PROPERLY PLACED AND PROTECTED ONSITE SO MATERIAL WILL NOT BE ERODED TO OFFSITE AREAS, INCLUDING THE STORM DRAINAGE SYSTEM.
5. STOCKPILE IS DEEMED IN PLACE AFTER THE FIRST PLACEMENT OF SOIL.
6. STOCKPILES IN PLACE FOR LESS THAN 30 DAYS MUST HAVE, AT A MINIMUM, FUNCTIONAL SEDIMENT CONTROL PRACTICES ON THE DOWN-GRADIENT SIDE OF THE PILE THAT WILL CONTAIN SEDIMENT.
7. LONG-TERM STOCKPILES (IN PLACE MORE THAN 30 DAYS) MUST BE STABILIZED WITH AN APPROPRIATE EROSION CONTROL MEASURE (COVER).
8. STOCKPILES MUST NOT EXCEED 6.0m IN HEIGHT, WITH MAXIMUM 2:1 (H:V) SIDE SLOPING. TOPSOIL STOCKPILES MUST BE STABILIZED WITH HYDROSEED, TO THE SATISFACTION OF THE AUTHORITY.
9. PRIOR TO THE COMMENCEMENT OF ANY CLEARING, GRUBBING, EXCAVATION, FILLING OR GRADING WORKS, THE CONTRACTOR SHALL INSTALL ALL TEMPORARY SEDIMENT CONTROL MEASURE (I.E. SILT FENCING, SILT TRAPS) TO THE SATISFACTION OF THE SITE OBSERVER, WITHIN THE WORK ZONE.
10. ALL REASONABLE EFFORTS SHALL BE MADE BY CONTRACTOR TO MITIGATE DRAINAGE IMPACTS, CONFLICTS DUE TO THE PROPOSED WORKS (TEMPORARY AND PERMANENT) OR SEDIMENT RELEASE TO ANY WATERCOURSE. THE CONTRACTOR SHALL UNDERTAKE ALL WORKS IN A MANNER TO COMPLY WITH ALL APPLICABLE LEGISLATION.
11. CONTRACTOR SHALL INSPECT SEDIMENT AND EROSION CONTROL MEASURES ON A WEEKLY BASIS AND ALSO BEFORE, DURING AND IMMEDIATELY FOLLOWING HEAVY RAINFALL EVENTS AND HEAVY SNOW MELT PERIODS. SEDIMENT FENCES AND BUFFER ZONES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION AS DIRECTED BY THE ENVIRONMENTAL MONITORS AND ANY OTHER AUTHORITIES HAVING JURISDICTION.
12. WHEN SEDIMENT ACCUMULATES TO HALF THE HEIGHT OF BARRIER OR 0.3 METER, THEN SEDIMENT REMOVAL IS REQUIRED. THE SILT SHALL BE REMOVED FROM THE BARRIER OR A SECOND LINE OF BARRIER INSTALLED. IF SEDIMENT AND EROSION CONTROL MEASURES ARE NOT FUNCTIONING PROPERLY, NO FURTHER WORK IN THE AFFECT AREAS WILL OCCUR UNTIL THE SEDIMENT AND /OR EROSION PROBLEM IS ADDRESSED.
13. SEDIMENT AND EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED, AND IS NO LONGER NECESSARY.
14. SURFACE RUNOFF WITHIN THE BOUNDARIES OF THE SITE SHALL NOT NEGATIVELY IMPACT ANY DOWNSTREAM LAND OR WATERCOURSES.
15. ANY STOCKPILED MATERIAL SHALL BE STORED AND STABILIZED WITHIN THE LIMIT OF WORK SITE/APPROVED WORK AREA AND AWAY FROM ANY WATERCOURSE. ALL MATERIALS AND EQUIPMENT USED FOR THE PURPOSE OF SITE PREPARATION AND CONSTRUCTION SHALL BE OPERATED AND STORED IN A MANNER THAT PREVENTS DELETERIOUS SUBSTANCES FROM ENTERING ANY WATERCOURSE.
16. AVOID CONSTRUCTION DURING HIGH VOLUME RAIN EVENTS (20mm IN 24 HOURS) AND SIGNIFICANT SNOW MELTS/THAWS WHERE POSSIBLE AND RESUME ONCE SOILS HAVE STABILIZED TO AVOID RISK OF EROSION, SOIL COMPACTION OR THE POTENTIAL FOR SEDIMENT RELEASE INTO NEARBY WATERCOURSES. CONSTRUCTION MUD MAT SHOULD BE INSTALLED IF THERE IS EXCESS SOIL AND SEDIMENT FORM VEHICLES LEAVING CONSTRUCTION SITE.
17. SEDIMENT POND SIDE SLOPES TO BE STABILIZED IMMEDIATELY. SEE SEDIMENT POND DETAILS PLAN 7154023-100000-41-D70-0001 SHEET 02.
18. ALL DAMAGED ESC MEASURES WILL BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OR SOONER IF ENVIRONMENTAL RECEPTORS ARE AT IMMINENT AND FORESEEABLE RISK OF ADVERSE IMPACTS.
19. SETBACKS FROM PROPERTY LINE, FORESTED AREA, CULTIVATED AREA, AND RIGHT-OF-WAYS ARE PROVIDED FROM CLIENT'S ENVIRONMENTAL PERMITTING TEAM.
20. THE DEVELOPER/PERSON RESPONSIBLE SHALL ENSURE THAT ALL CONSTRUCTION ACTIVITIES ARE UNDERTAKEN IN A MANNER THAT ENSURE BEST MANAGEMENT PRACTICES ARE IMPLEMENTS TO PREVENT AND CONTAIN ON-SITE, SILT LADEN RUNOFF THAT EXCEEDS 75MG/L TSS OR 65 NTU IN THE EVENT OF SIGNIFICANT RAINFALL & EXCEEDS 25 NTU UNDER NORMAL WEATHER CONDITIONS AS SPECIFIED BY THE BYLAW (NO. 2024-448), FROM ENTERING DOWNSTREAM DRAINAGE INFRASTRUCTURE AND AQUATIC SYSTEM.
21. PROJECT COORDS. ARE SET IN, HORIZONTAL ; NAD83(CSRS) / MTM ZONE 9 - EPSG:2952.
    VERTICAL ; CGVD28

DRAWING No.	DESCRIPTION	REV	DESCRIPTION	PREPARED BY	CHECKED BY	DATE
REFERENCE DRAWINGS		REVISIONS				
	ENVIRONMENTAL-STANTEC.DWG					
	XR-160402040-L-PLANTING.DWG					
	241451-SouthMarch_BESS-MTM9-Rev0					
	SOUTH MARCH DITCH LINE TOPO	AB	FOR PERMITTING	B. THOMAS	V. BRUNELLE P.E.O NO. 100617887	2026-04-21
7154023-402000-47-D20-0001	SOUTH MARCH BESS-250 MW 230kV-34.5 kV SUBSTATION	AA	FOR PERMITTING	B. THOMAS	V. BRUNELLE P.E.O NO. 100617887	2026-01-23

SEAL:
LICENSED PROFESSIONAL ENGINEER
V. BRUNELLE
100617887
PROVINCE OF ONTARIO
2026-04-23

APPLICATION FILE NUMBER : D07-12-25-0096
PLAN NUMBER : 19401

CLIENT: Evolugen by Brookfield Renewable

PROJECT: SOUTH MARCH
2555 AND 2625 MARCHURST RD, OTTAWA

TITLE: CIVIL BESS
EROSION AND SEDIMENT CONTROL

PREPARED BY:	DRAFTED BY:
B. THOMAS	G. NORMAND
CHECKED BY:	APPROVED BY:
V. BRUNELLE	V. BRUNELLE
SCALE: 1:1000	DATE: 2024-03-03

DRAWING No.: 7154023-100000-41-D70-0001 | SHEET: 03 | SIZE: A1 | REV. AB

BY:NORMAND, GABRIEL
PRINTED 2026-04-22 16:45:07

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