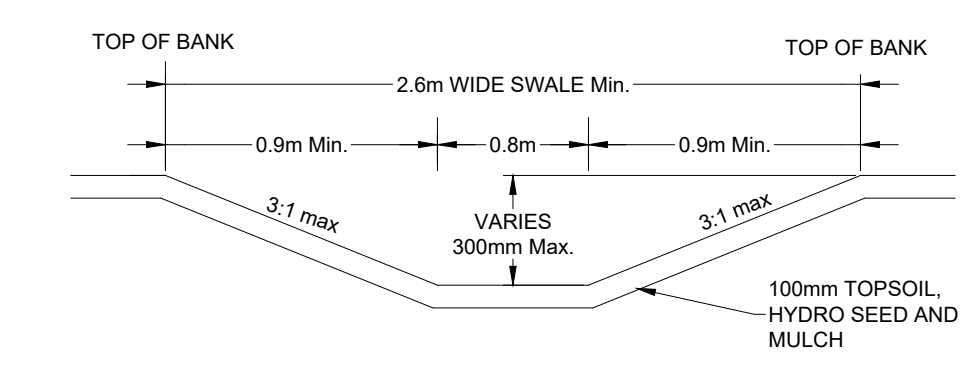
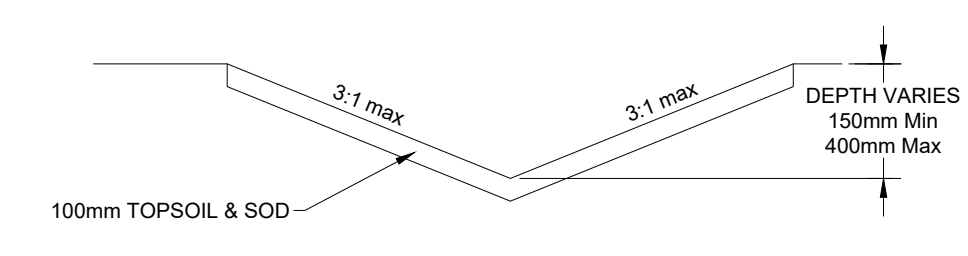


NOTES:
 1. INSTALL CLEANOUT / INSPECTION WELL AT SUBDRAIN ENDS.
 2. PROTECT EXISTING SUBDRAINAGE SYSTEM.

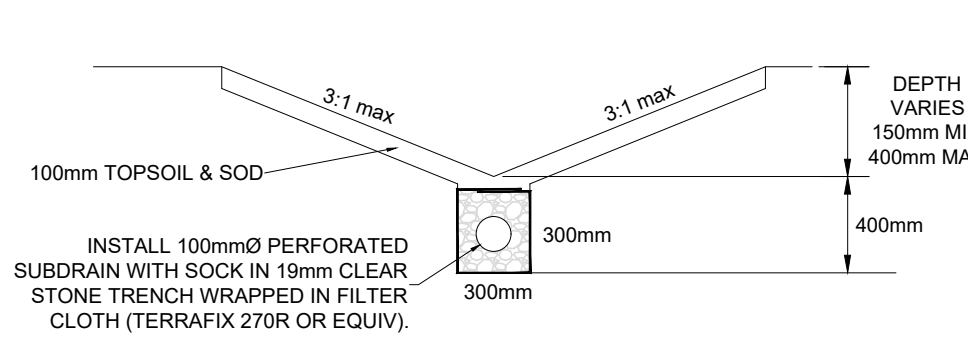
DETAIL 1 - TYPICAL INFILTRATION TRENCH N.T.S.



DETAIL 2 - TYPICAL GRASSED SWALE N.T.S.

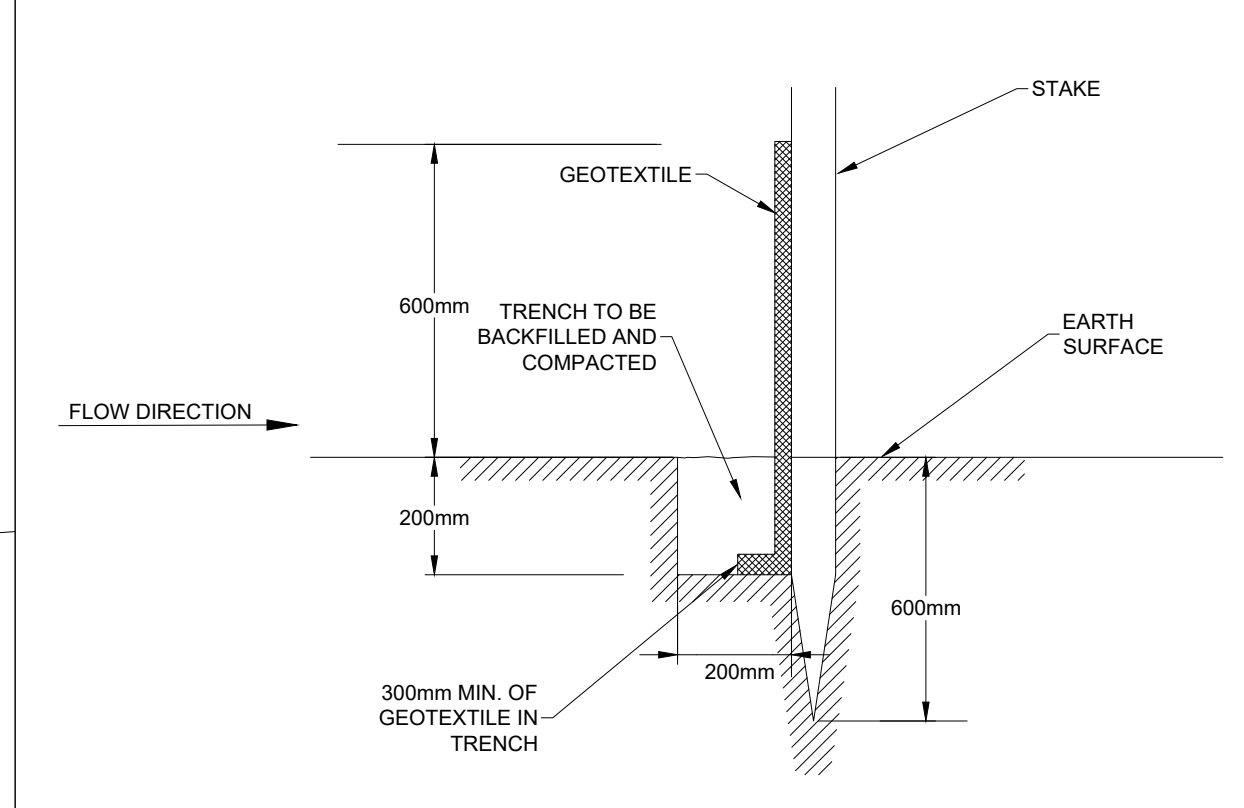
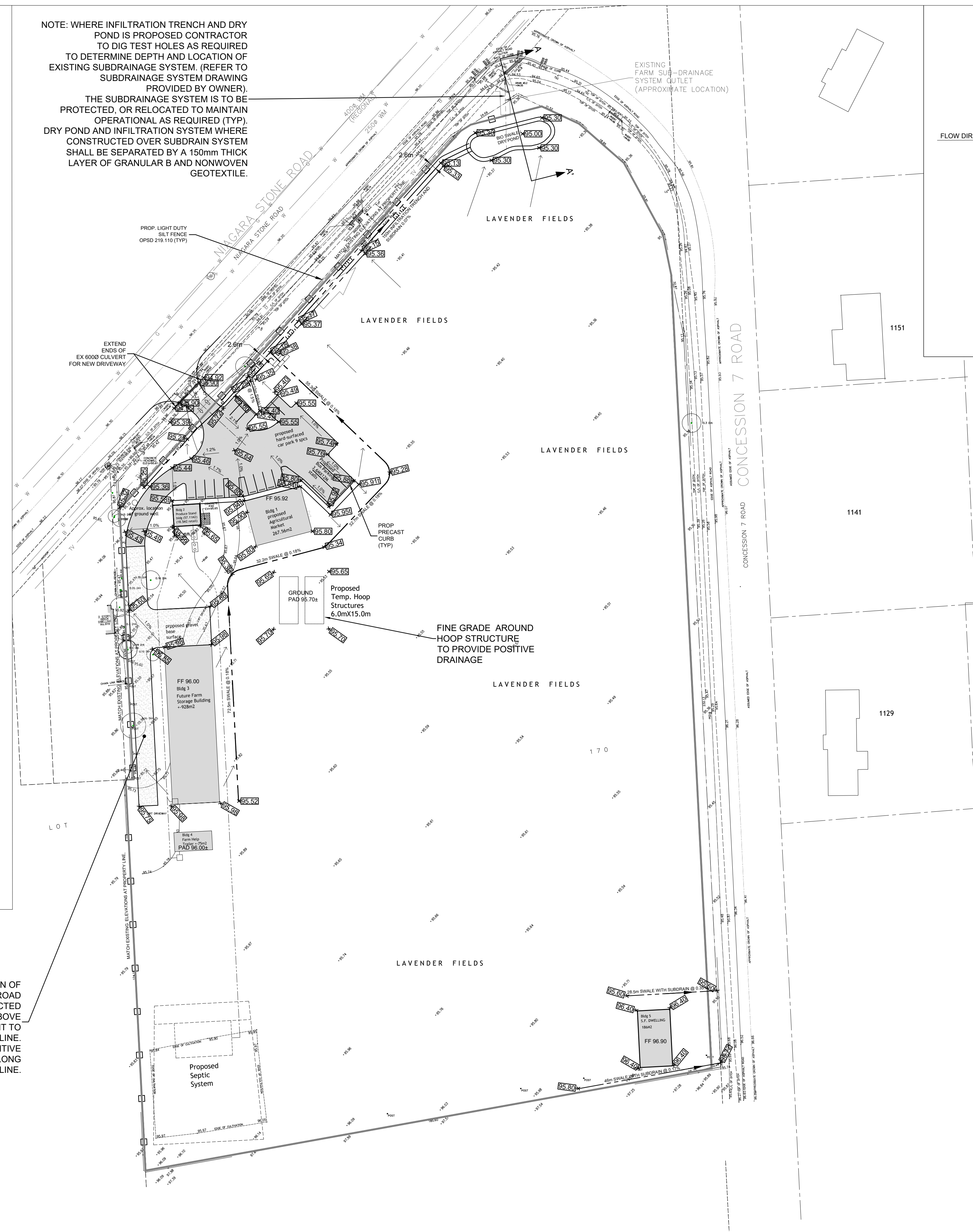


DETAIL 3 - TYPICAL SWALE N.T.S.



DETAIL 4 - TYPICAL SWALE WITH SUBDRAIN N.T.S.

NOTE: WHERE INFILTRATION TRENCH AND DRY POND IS PROPOSED CONTRACTOR TO DIG TEST HOLES AS REQUIRED TO DETERMINE DEPTH AND LOCATION OF EXISTING SUBDRAINAGE SYSTEM. (REFER TO SUBDRAINAGE SYSTEM DRAWING PROVIDED BY OWNER). THE SUBDRAINAGE SYSTEM IS TO BE PROTECTED, OR RELOCATED TO MAINTAIN OPERATIONAL AS REQUIRED (TYP). DRY POND AND INFILTRATION SYSTEM WHERE CONSTRUCTED OVER SUBDRAIN SYSTEM SHALL BE SEPARATED BY A 150mm THICK LAYER OF GRANULAR B AND NONWOVEN GEOTEXTILE.



DETAIL 5 - TYPICAL LIGHT DUTY SILT FENCE BARRIER (OPSD 219.110) N.T.S.

EROSION & SEDIMENT CONTROL PLAN

1. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE DRAWINGS AND MONITOR REGULARLY AND MAINTAIN OVER THE COURSE OF CONSTRUCTION.
2. EROSION AND SEDIMENT CONTROL MEASURES TO BE REMOVED AT THE CONTRACTOR'S EXPENSE ONCE THE SITE HAS BEEN STABILIZED, OR AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
3. TOPSOIL SHALL BE STRIPPED AND REUSED OR STOCKPILED ON SITE
4. STONE TO BE PLACED AS SOON AS PRACTICAL FOR CONSTRUCTION ACCESS AND DUST SUPPRESSION. WATER AND/OR CALCIUM CHLORIDE SHALL BE MADE READILY AVAILABLE IN THE EVENT DUST SUPPRESSION IS REQUIRED.
5. ENTRANCES USED FOR CONSTRUCTION ACCESS SHALL BE TOPPED WITH 50 TO 100mm CLEAR STONE TO PROVIDE A TEMPORARY MUD MAT, AS NECESSARY OR AS DIRECTED BY CONTRACT ADMINISTRATOR.
6. CONTRACTOR SHALL ARRANGE FOR STREET SWEEPING AT THEIR EXPENSE FOR DIRT TRACKED ONTO MUNICIPAL OR REGIONAL ROADWAYS.
7. RUNOFF SHALL BE CONTAINED ON SITE WITH PROTECTION PROVIDED FOR INFILTRATION STRUCTURES TO PREVENT CLOGGING OF CLEAR STONE.
8. ALL INFILTRATION TRENCH PIPING SHALL BE FLUSHED AND VIDEO INSPECTED AS PER OPS 409. SEWER FLUSHING SHALL BE DONE PRIOR TO VIDEO INSPECTION AND SHALL INCLUDE CLEANING OF ALL SUMPS AND BENCHING. THREE (3) COPIES OF THE VIDEO AND REPORT SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR.

LEGEND

194.19 (194.19±)	EXISTING ELEVATION
194.39	EXISTING ELEVATION INTERPOLATED
194.39±	PROPOSED ELEVATION
194.39±	PROPOSED ELEVATION TOP OF CONCRETE
⊕H	EXISTING FIRE HYDRANT
◀	PROPOSED ENTRANCE
---	EXISTING FARM SUB-DRAINAGE SYSTEM
---	PROPOSED SUBDRAIN
---	PROPOSED SWALE
---	PROPOSED SILT FENCE
---	DRAINAGE BREAKLINE
→	FLOW DIRECTION
→	OVERLAND FLOW
---	PROPOSED STRAW BALE CHECK DAM

NOTES:
 1. The position of pole lines, conduits, watermains, sewers, and other underground and above ground utilities and structures is not necessarily shown on the contract drawings, and, where shown the accuracy of the position of such utilities and structures is not guaranteed. Before starting work, the contractor shall identify the exact location of all such utilities and structures and shall assume liability for damage to them.
 2. Check all dimensions and report any inconsistencies to the Engineer before proceeding with the work - DO NOT SCALE DRAWINGS.
 3. This drawing is an instrument of Professional Service and is intended for use only in connection with the project covered by the Engineering Agreement.
 4. Urban & Environmental Management Inc., does not assume any responsibility for losses, damages, and costs arising from use or misuse of this drawing by persons, firms, or corporations without prior written consent of Urban & Environmental Management Inc.
 5. Copyright Urban & Environmental Management Inc., 2024. All rights reserved. No part of this drawing may be reproduced in any form or by any means without the written permission of Urban & Environmental Management Inc.

No.	REVISION	DATE	BY
3	SUBMITTED FOR SITE PLAN APPROVAL	JUL 9/24	MM
2	ISSUED FOR CLIENT REVIEW	MAY 6/24	MM
1	ISSUED FOR CLIENT REVIEW	MAR 1/24	MM
0	ISSUED FOR CLIENT REVIEW AND DESIGN COORDINATION	DEC 15/23	MM

OWNER'S NAME _____

OWNER'S SIGNATURE _____

LORD MAYOR _____

TOWN CLERK _____

DATE _____

REVIEW COPY NOT FOR CONSTRUCTION
 ENGINEER SIGNED AND SEALED PLANS WILL BE PROVIDED FOR FINAL TOWN SITE PLAN APPROVAL SUBMISSION.

CONSULTANT:
U E M URBAN & ENVIRONMENTAL MANAGEMENT INC.
 PROFESSIONAL CONSULTING SERVICES
 4701 St. Clair Avenue, Suite 301,
 Niagara Falls, ON Canada L2E 3S9
 TEL.: (905) 371-8764 FAX.: (905) 371-8763

PROJECT:
**N.E.O.B INC.
 933 NIAGARA STONE ROAD
 NIAGARA-ON-THE-LAKE**

TITLE:
**GRADING PLAN &
 SEDIMENT CONTROL PLAN**

CHECKED: MM	DRAWN: MM	Project No. 23-106
DATE: JUNE 1, 2023	SCALE: 1:750	DWG. No. C01

TOP ELEVATION OF GRANULAR ACCESS ROAD TO BE CONSTRUCTED MINIMUM 100mm ABOVE GRADE ADJACENT TO PROPERTY LINE. MAINTAIN POSITIVE DRAINAGE ALONG PROPERTY LINE.