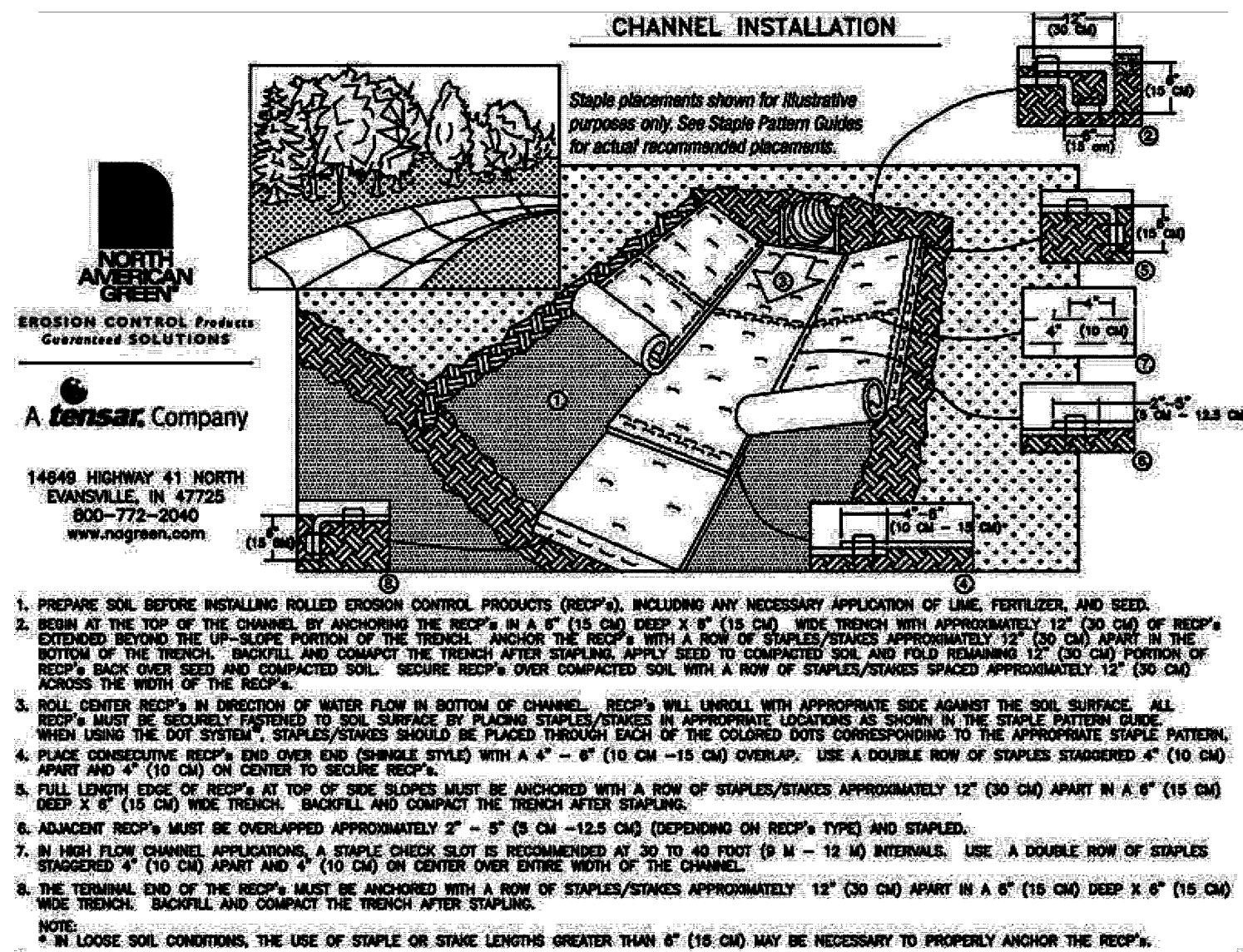
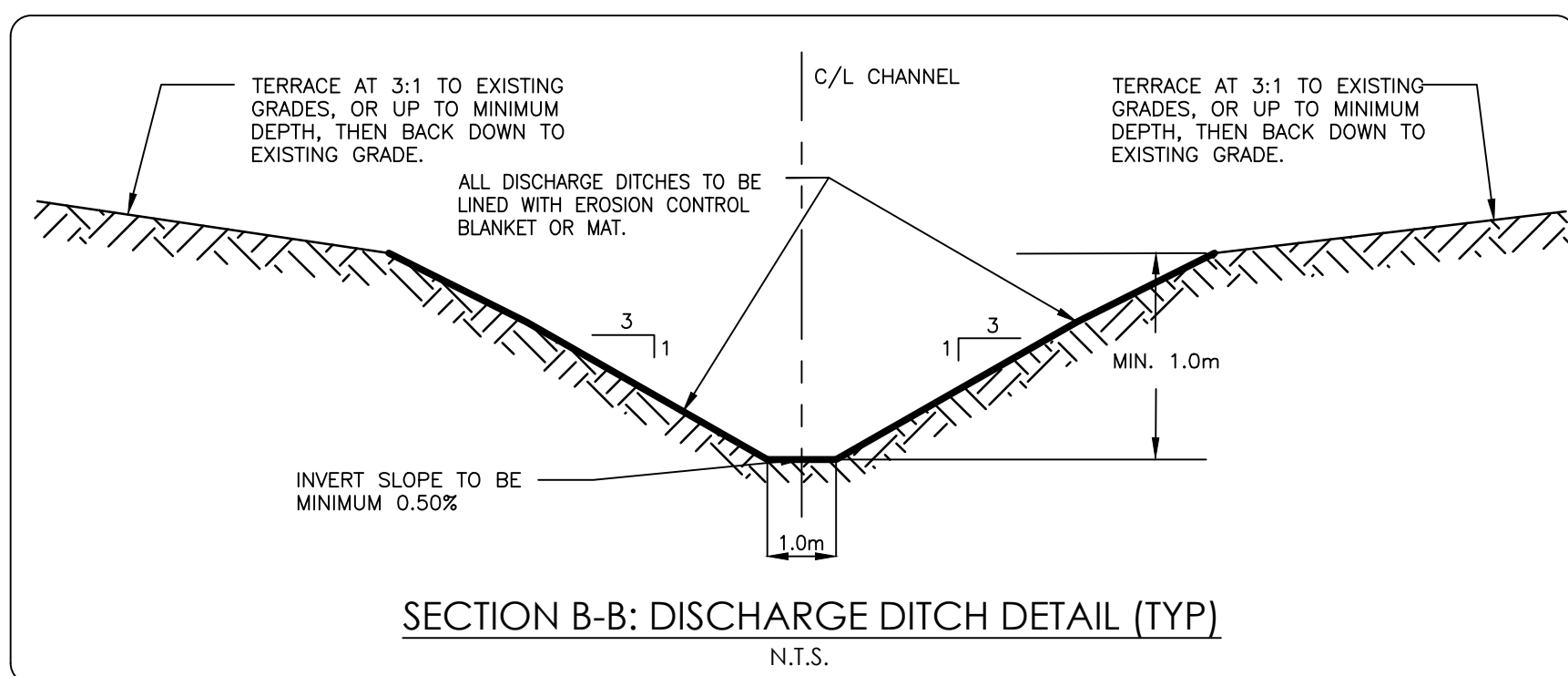
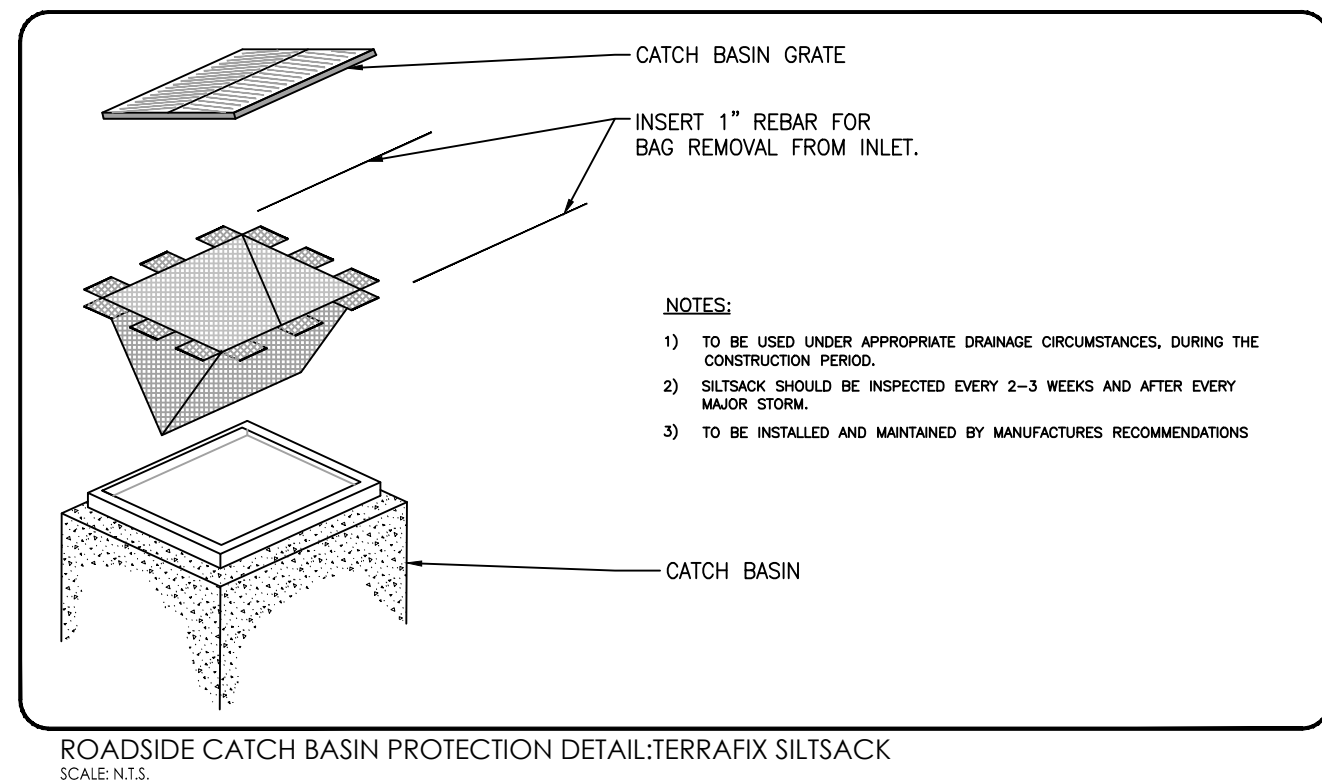
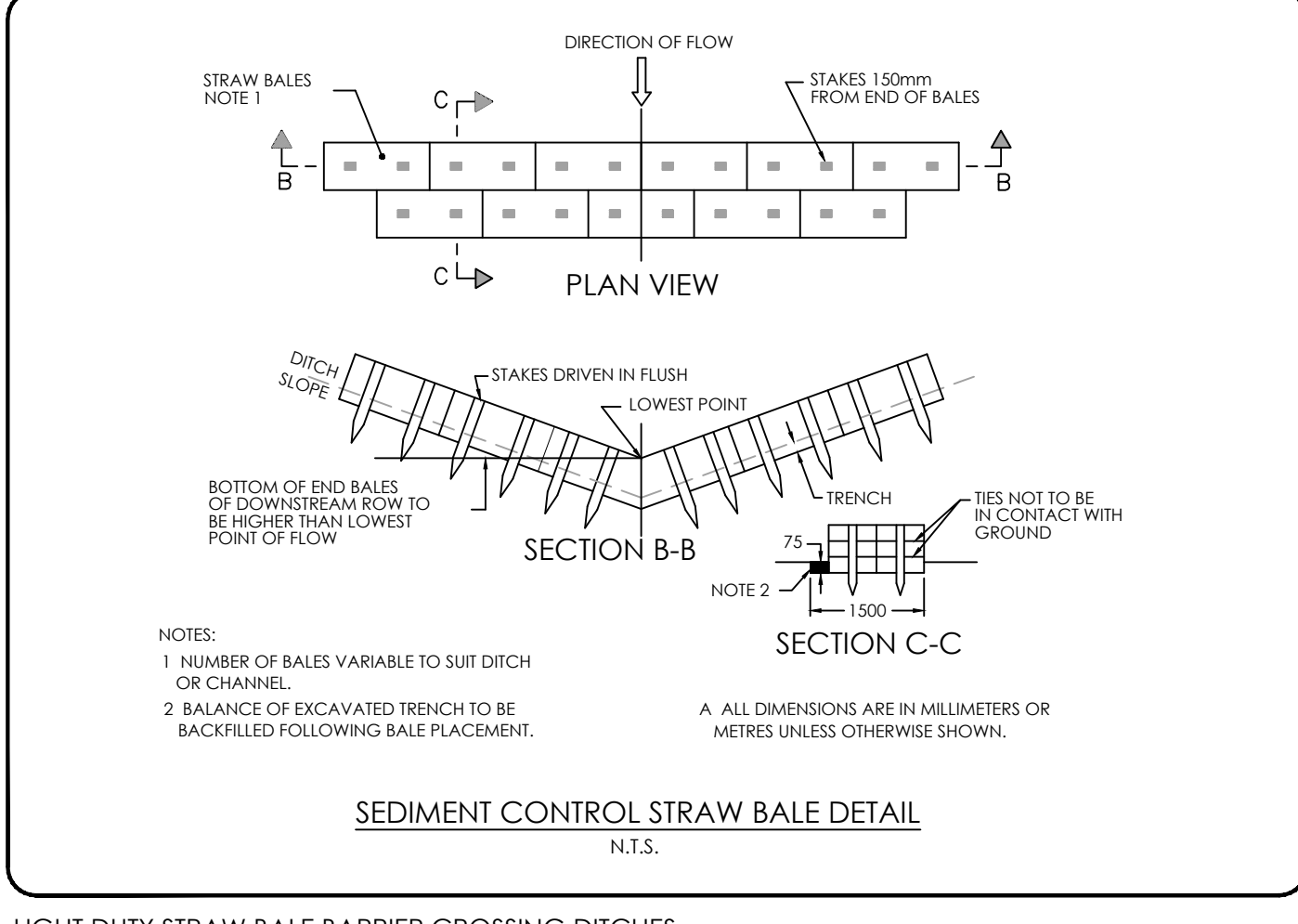
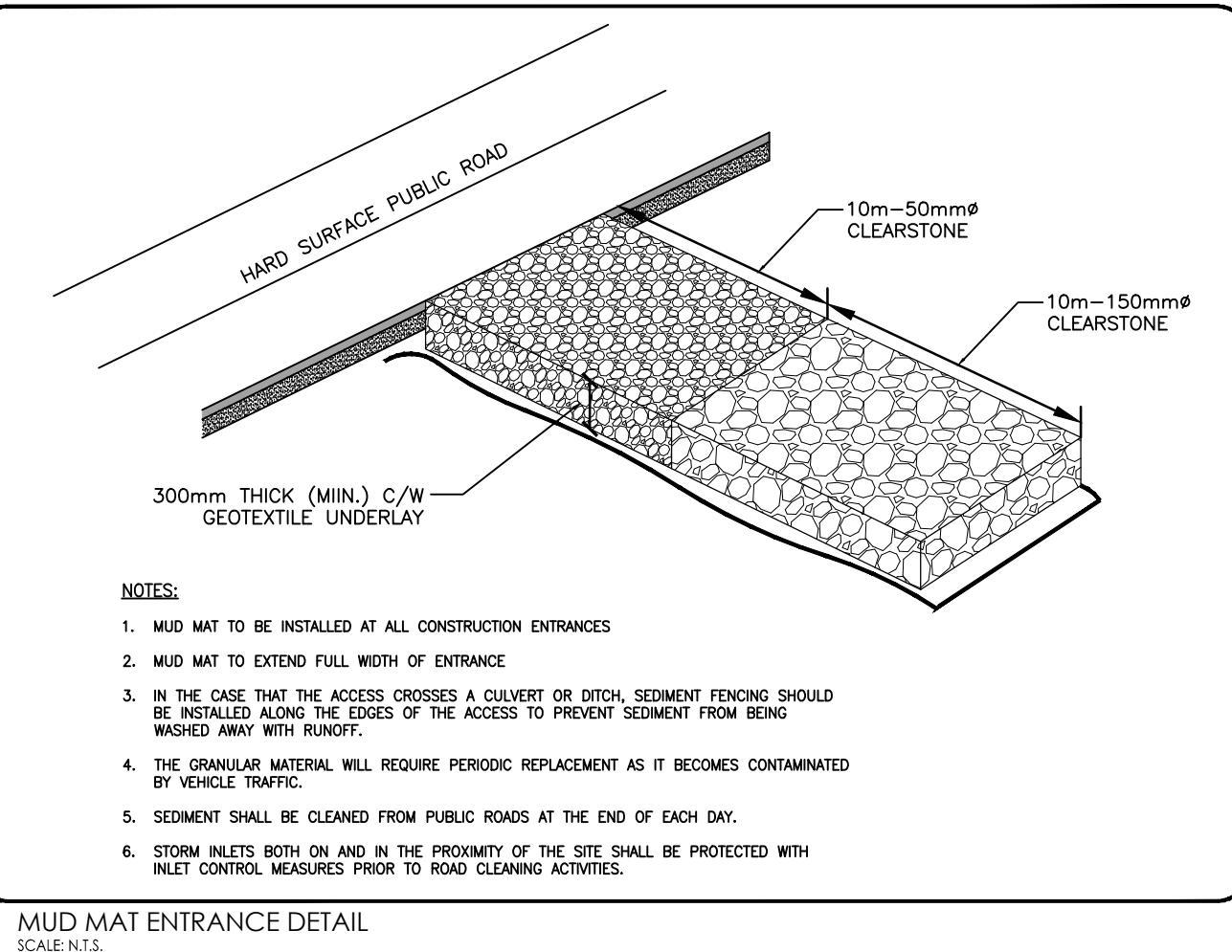


NOTE: ALL DISCHARGE DITCHES TO BE LINED WITH EROSION CONTROL BLANKET (MANUFACTURER TO BE DETERMINED BY CONTRACTOR) AS PER DETAIL BELOW. USE MANUFACTURER'S APPROVED STAPLE PATTERN AND INSTALLATION GUIDE.



For more information, contact our distributor:

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Best Management Practices

CONTRACTOR TO PROVIDE EROSION AND SEDIMENT CONTROLS (BEST MANAGEMENT PRACTICES) DURING CONSTRUCTION OF THIS PROJECT.

EROSION MUST BE MINIMIZED AND SEDIMENTS MUST BE REMOVED FROM CONSTRUCTION SITE RUN-OFF IN ORDER TO PROTECT DOWNSTREAM AREAS. DURING ALL CONSTRUCTION, EROSION AND SEDIMENTATION SHOULD BE CONTROLLED BY THE FOLLOWING TECHNIQUES:

- LIMIT THE EXTENT OF EXPOSED SOILS AT ANY GIVEN TIME.
- REVEGETATE EXPOSED AREAS AND SLOPES AS SOON AS POSSIBLE.
- MINIMIZE AREA TO BE CLEARED AND GRUBBED.
- PROTECT EXPOSED SLOPES WITH PLASTIC OR SYNTHETIC MULCHES.
- INSTALL FILTER CLOTH BETWEEN FRAME AND COVER ON ALL PROPOSED CATCH BASINS AND CATCH BASIN MANHOLES AND ON ALL EXISTING CATCH BASINS THAT WILL RECEIVE RUN-OFF FROM THE SITE. SUBDIVISION FILTER SOCKS TO BE MAINTAINED AND CLEANED AS NEEDED. FILTER SOCKS TO ONLY BE REMOVED ONCE THE STREET IS 90% CONSTRUCTED AND LOTS SODDED.
- A SILT FENCE SHALL BE INSTALLED AROUND THE PERIMETER OF ALL AND ANY STOCKPILES OF MATERIAL TO BE USED OR REMOVED FROM SITE.
- A VISUAL INSPECTION SHALL BE DONE DAILY ON SEDIMENT CONTROL MEASURES AND CLEANED OF ANY ACCUMULATED SILT AS REQUIRED. THE DEPOSITS WILL BE DISPOSED OFF SITE AS PER THE REQUIREMENTS OF THE CONTRACT.
- SEDIMENT CONTROL BARRIERS MAY ONLY BE REMOVED TEMPORARILY WITH APPROVAL OF CONTRACT ADMINISTRATOR TO ACCOMMODATE CONSTRUCTION OPERATIONS. ALL AFFECTED BARRIERS MUST BE REINTEGRATED AT NIGHT WHEN CONSTRUCTION IS COMPLETED. NO REMOVAL WILL OCCUR IF THERE IS A SIGNIFICANT RAINFALL EVENT ANTICIPATED (>10mm) UNLESS A NEW DEVICE HAS BEEN INSTALLED TO PROTECT THE EXISTING STORM AND SANITARY SEWER SYSTEMS.
- NO REFUELING OR CLEANING OF EQUIPMENT IS PERMITTED NEAR ANY EXISTING WATERWAY.
- CONTRACTOR SHALL REMOVE SEDIMENT CONTROL MEASURES WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE(S) IS NO LONGER REQUIRED. NO CONTROL MEASURES SHALL BE PERMANENTLY REMOVED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR SHALL PERIODICALLY, OR WHEN REQUESTED BY THE CONTRACT ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENTS AS REQUIRED.
- THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO THE WATERCOURSE. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE. DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

Bioswale Construction Notes

Site Preparation:

- IN ORDER TO MINIMIZE SEDIMENTATION AND COMPACTION DURING CONSTRUCTION DUE TO HEAVY CONSTRUCTION EQUIPMENT TRAFFIC, THE LOCATION OF INFILTRATION PRACTICES MUST BE CLEARLY IDENTIFIED ON THE CONSTRUCTION PLANS AND MARKED DURING THE INITIAL STAGE OF CONSTRUCTION.
- PERIMETER CONTROLS AROUND LID PRACTICES MAY CONSIST OF COMPOST BIOFILTER SOCKS, SAND OR PEA GRAVEL BAGS, STRAW LOGS AND BALES AND SILT FENCES.
- LID PERIMETER CONTROLS ARE TO REMAIN IN PLACE, INSPECTED AND REESTABLISHED AS NECESSARY UNTIL LID PRACTICE DRAINAGE AREAS ARE STABILIZED.

Infiltration Practice Grading:

Fill Areas:

- REMOVE TOPSOIL AND LOWER PERMEABILITY SOILS LOCATED ABOVE THE TARGET INFILTRATION SOILS WHERE THE PRACTICE WAS DESIGNED TO FUNCTION. FILL THE AREA ABOVE THE TARGET SOILS WITH SOILS OF A HIGHER PERMEABILITY THAN THE IN SITU SOIL. FILL THIS AREA TO A HEIGHT GREATER THAN THE SURROUNDING GRADES.
- RAISE THE SURROUNDING GRADES TO THE ELEVATION OF THE INFILTRATION FEATURE, BUT DO NOT EXCEED HEIGHT OF THE INFILTRATION FILL MATERIAL. FILL ADDITIONAL HIGH PERMEABILITY SOILS OVER THE INFILTRATION FEATURE SUCH THAT THE SITE OF THE INFILTRATION FEATURE IS AT A GREATER ELEVATION THAN THE SURROUNDING GRADES.
- REPEAT UNTIL FINISHED GRADE OF THE BMP IS ACHIEVED, THEN THE SURROUNDING AREA CAN BE RAISED TO FINISHED GRADE (REFER TO C&I GUIDE FOR DETAILS).
- FOLLOWING STABILIZATION, THE PRACTICE SHOULD BE CUT TO DESIGNED SUBGRADE ELEVATION AND REPLACED WITH FILTER MEDIA AS PER DRAWING DS-3.
- BIOSWALES NEED TO BE OFFLINE AND PROTECTED UNTIL THE SITE IS STABILIZED.

Cut Areas:

- EXCAVATE THE LID FEATURE FOOTPRINT AND SURROUNDING AREA TO FINISHED GRADE.
- FOLLOWING STABILIZATION OF THE TRIBUTARY AREA, THE PRACTICE SHOULD BE CUT TO DESIGNED SUBGRADE ELEVATION AND REPLACED WITH FILTER MEDIA AS PER DRAWING DS-3.
- BIOSWALES NEED TO BE OFFLINE AND PROTECTED UNTIL THE SITE IS STABILIZED.

Construction Considerations:

- THE CONTRIBUTING DRAINAGE AREA MUST BE STABILIZED AND FINALIZED WITH LANDSCAPING OR HARDSCAPING PRIOR TO FINISHING WORK ON THE LID PRACTICE.
- DIVERSIONS OF CONSTRUCTION RUNOFF FROM BMPs SHOULD BE INSTALLED AND MAINTAINED PRIOR AND DURING THE CONSTRUCTION OF THE PRACTICE.
- ALL FINISHED GRADING ACTIVITIES IN THE BIOSWALE SHOULD BE PERFORMED DURING DRY CONDITIONS TO PREVENT SOIL SMEARING AND COMPACTION. DETERMINING MAY BE NECESSARY PRIOR TO COMMENCING WORK.
- EXCAVATION OF THE BIOSWALE SHOULD BE DONE FROM THE OUTSIDE REACHING IN WHEN POSSIBLE, USING A BACKHOE OR BUCKET WITH AN EXTENSION ARM.
- ONCE EXCAVATED TO SUBGRADE, THE BIOSWALE BOTTOM AND SIDE SLOPES SHOULD BE SCARIFIED OR TILLED TO LOOSEN COMPACTED SOILS.
- ANY UNDERDRAINS, AGGREGATE STORAGE LAYER, FILTER MEDIA, AND/OR OBSERVATION WELLS SHOULD BE INSTALLED AT THIS POINT.

LID Practice Materials:

- FILTER MEDIA (SEE DETAILS ON DRAWING DS-3) SHOULD BE DONE OFFSITE BY A REPUTABLE SUPPLIER THAT CAN CERTIFY THAT THE ENGINEERED SOIL CONTAINS PROPER COMPONENT RATIOS.
- SOIL MEDIA SHOULD BE DELIVERED TO THE SITE ONCE THE FACILITY IS READY FOR FINAL SOIL PLACEMENT. ENGINEERED SOIL MEDIA SHOULD NOT BE STORED ON-SITE FOR EXTENDED PERIODS OF TIME.
- THREE SAMPLES OF SOIL SHOULD BE TESTED FROM EVERY BATCH PREPARED BY THE SUPPLIER: A SAMPLE FROM THE TOP, MIDDLE AND BOTTOM OF THE PILE.
- NO SOIL MEDIA SHOULD BE BROUGHT TO THE SITE UNTIL THE LAB TESTS HAVE BEEN APPROVED BY THE SITE ENGINEER.
- THE MIXTURE SHOULD BE FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN 50 mm.
- SOIL MIX WILL SETTLE AS MUCH AS 20% OVER TIME. NATURAL SETTLEMENT OVER TIME IS PREFERRED IF CONSTRUCTION SCHEDULE ALLOWS. BUT SOIL CAN BE SATURATED WITH WATER TO SPEED UP COMPACTION.

Client/Project

**RICH CRAFT HOMES
SECOND REGISTRATION PHASE**

**RICH CRAFT KANATA WEST
1620 MAPLE GROVE ROAD
OTTAWA, ON**

Title

**EROSION CONTROL PLAN
DETAILS**

Project No.	Scale	Revision
160401393	AS SHOWN	
Drawing No.	Sheet	Revision

EC-2

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