

- GENERAL NOTES
- 1.1. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY NORFOLK COUNTY.
- 1.2. ALL CONSTRUCTION WORK TO BE COMPLETED IN ACCORDANCE WITH ALL APPLICABLE (MOST RECENT) STANDARDS.
- 1.3. THE PLANS PREPARED BY GRIT ENGINEERING INC. ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ENGINEER AND ACCEPTED BY THE APPROVING AGENCY. THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF GRIT ENGINEERING INC.
- 1.4. CHANGES TO DRAWINGS ARE NOT PERMITTED UNTIL REVIEWED AND APPROVED BY THE ENGINEER AND ACCEPTED BY THE APPROVING
- 1.5. CONTRACTOR TO VERIFY THAT THE DRAWINGS BEING USED FOR THE CONSTRUCTION ARE THE MOST RECENT VERSION.
- 1.6. UTILITY LOCATES AND ALL APPLICABLE PERMITS ARE TO BE OBTAINED PRIOR TO THE START OF CONSTRUCTION AND INSPECTION BEING
- 1.7. THE CONTRACTOR IS TO VERIFY THE EXISTING CONDITION OF THE SITE. THE VERIFICATION INCLUDES AND NOT LIMITED TO THE SERVICE LOCATION, SERVICE ELEVATIONS, UTILITY CONFLICTS AND BENCHMARK ELEVATIONS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY AND PRIOR TO THE CONTINUATION OF CONSTRUCTION.
- 1.8. TOPOGRAPHIC INFORMATION PREPARED BY GRIT ENGINEERING, COMPLETED ON MAY 9, 2024.
- 1.9. ACCESS SHALL BE FROM GRIGG DRIVE VIA THE NORFOLK COUNTY EASEMENT. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY REQUIRED ACCESS PERMITS AND SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE RESULTING FROM ACCESS OPERATIONS ALL AFFECTED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION THE CONTRACTOR IS ALSO RESPONSIBLE FOR ANY REQUIRED REPAIRS AND REMEDIATION TO GRIGG DRIVE AND NORFOLK COUNTY PROPERTY RESULTING FROM USE OF THIS ACCESS ROUTE.
- 1.15. DURING THE CONSTRUCTION. THE CONTRACTOR ASSUMES ALL LIABILITY FOR DAMAGE TO ALL EXISTING FEATURES AND STRUCTURES. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL RESTORATION AND RESTORED TO EXISTING CONDITION OR BETTER.
- 1.16. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO THE NORFOLK COUNTY STANDARDS
- 1.17. LINER FABRIC TO BE BENTOFIX THERMAL LOCK CSRNWL GCL OR
- 1.18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS OF NORFOLK COUNTY AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 1.19. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND 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 INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- 1.20. UNDER O.REG 406.19 SWM POND SEDIMENT STOCKPILES ARE REQUIRED TO BE KEPT SEPERATE BETWEEN PONDS.
- 2. <u>INSPECTION AND CERTIFICATION</u>
- GRIT ENGINEERING INC. REQUIRES A MINIMUM OF 24 HOURS NOTICE PRIOR TO THE REQUIRED INSPECTION BE REQUESTED. INSPECTIONS ARE REQUIRED TO VERIFY, PIPE INSTALLATION (MATERIALS, SIZE, LOCATION AND ELEVATION), STRUCTURE PLACEMENT, SURFACE MATERIAL AND FINISHED GRADING.
- 2.1.1. CONSTRUCTION WORKS WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRE FULL TIME INSPECTION.
- 2.1.2. CONSTRUCTION WORKS WITHIN PRIVATE LANDS ARE REQUIRED ON A PART TIME AND AS NEEDED BASIS.
- 2.2. FAILURE TO COMPLY WITH GRIT ENGINEERING INC. INSPECTION REQUIREMENTS, WILL RESULT IN ADDITIONAL CONSTRUCTION INSPECTION AND VERIFICATION AT THE EXPENSE OF THE

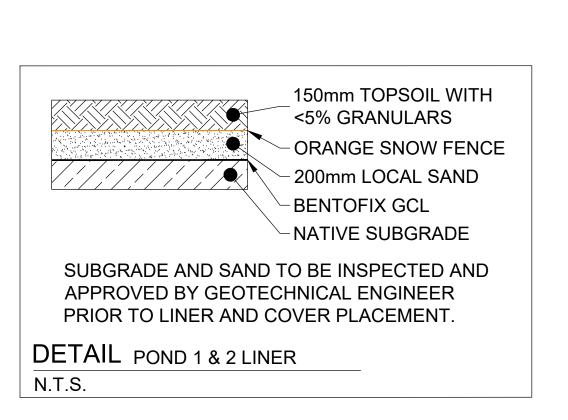
3. STORM SEWERS AND SERVICING

- 3.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030, 802.031, OR 802.032. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.
- 3.2. STORM SEWERS TO HAVE MINIMUM 1.2m COVER TO TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED SEWER PIPE PER DETAIL THIS SHEET OR OTHER ENGINEER-APPROVED EQUIVALENT.

4.1. PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING

- 4. <u>EROSION AND SEDIMENT CONTROL</u>
- CONSTRUCTION. 4.2. ALL EROSION CONTROL MEASURES TO BE IN PLACE BEFORE STARTING
- CONSTRUCTION AND REMAIN IN PLACE UNTIL RESTORATION IS COMPLETE 4.3. ALL SEDIMENT AND CONTROL MEASURES SHALL BE INSPECTED DAILY
- TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY AND ARE MAINTAINED AND/OR UPGRADED AS REQUIRED. 4.4. ALL COLLECTED SEDIMENT TO BE DISPOSED OF AT AN APPROVED
- LOCATION. 4.5. MINIMIZE AREA DISTURBED DURING CONSTRUCTION.
- 4.6. ALL DEWATERING TO BE DISPOSED OF IN AN APPROVED SEDIMENTATION BASIN. PREVENT WIND-BLOWN DUST.
- 4.8. ALL EROSION AND SEDIMENT CONTROL FACILITIES ARE TO BE INSPECTED BY THE CONSULTING ENGINEER ONCE A WEEK AND AFTER EACH RAINFALL OF 100MM OR GREATER OR A SIGNIFICANT SNOW MELT. DAILY INSPECTIONS ARE REQUIRED BY THE CONTRACTOR DURING EXTENDED RAINFALL OR SNOWMELT PERIODS. THESE INSPECTIONS ARE TO ENSURE THAT THE FACILITIES ARE IN PROPER WORKING CONDITION AND ALL DAMAGED ESC FACILITIES ARE TO BE REPAIRED/REPLACED WITHIN 48 HOURS OF THE INSPECTION. A PERMANENT RECORD OF THESE INSPECTIONS MUST BE FORWARDED TO THE COUNTY'S ENGINEERING DEPARTMENT WITHIN FIVE (5) DAYS OF THE INSPECTION.
- 4.9. ALL EROSION AND SEDIMENT CONTROLS ARE TEMPORARY APPLICATIONS CONSTRUCTED PRIOR TO ANY LAND GRADING OR DISRUPTION ACTIVITIES ON THE SITE. THEY ARE TO BE INSPECTED AND MAINTAINED BY THE CONTRACTOR THROUGHOUT THE DURATION OF THE CONSTRUCTION PERIOD, INCLUDING BUILDING CONSTRUCTION,
- UNTIL THE SITE IS STABILIZED. 4.10. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE
- 4.11. ALL DISTURBED GROUND LEFT INACTIVE SHALL BE STABILIZED BY A SEEDING, SODDING, MULCHING OR COVERING, OR OTHER EQUIVALENT CONTROL MEASURE. THE PERIOD OF TIME OF INACTIVITY SHALL NOT EXCEED 30 DAYS, UNLESS OTHERWISE AUTHORIZED BY THE COUNTY. 4.12. SEDIMENT CONTROL FENCES SHALL BE PLACED ALONG ALL
- DOWN-SLOPE SIDES OF A SITE ALONG THE EDGES OF A DRAINAGE CHANNEL PASSING THROUGH THE SITE, AND ALONG THE PERIMETER OF ALL OTHER AREAS SENSITIVE TO SEDIMENT ACCUMULATION. ALL LIGHT-DUTY SEDIMENT CONTROL FENCES SHALL BE CONSTRUCTED AS PER DETAIL SHOWN, OR APPROVED EQUAL.
- 4.13. RUNOFF FROM ALL STOCKPILES SHALL BE CONTROLLED BY A SEDIMENT CONTROL FENCE OR OTHER APPROVED DEVICES. 4.14. STOCKPILES OF CLEARED MATERIALS AS WELL AS EQUIPMENT FUELING AND MAINTENANCE AREAS WILL BE LOCATED AWAY FROM NATURAL AREAS AND CONVEYANCE ROUTES.
- 4.15. RE-VEGETATION AS PER OPSS MUNI 804 SHOULD BE OF LOCAL GENETIC SPECIES AND SEED STOCK. REFER TO PROJECT SPECIFICATION FOR APPROPRIATE SEED MIXTURE.
- 4.16. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. THE CONTRACTOR IS TO PROVIDE ALL ADDITIONAL EROSION AND SEDIMENT CONTROL STRUCTURES. 4.17. ALL EROSION AND SEDIMENT CONTROL STRUCTURES ARE TO REMAIN
- IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
- 4.18. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ROADWAYS ARE CLEANED OF ALL SEDIMENTS FROM VEHICULAR TRACKING ETC. TO AND FROM THE SITE AT THE END OF EACH WORK DAY.
- 4.19. ALL OF THE ABOVE NOTES AND ANY ESC MEASURES ARE AT THE MINIMUM TO BE IN ACCORDANCE WITH THE MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.

NATIVE PRAIRIE MEADOW SEED MIXTURE (OSC#8135) NURSE CROP (OATS, WHITE MILLET AND ANNUAL WILD RYE) OVERSEED (COMMON MILKWEED - ASCLEPIAS SYRIACA) OSC NATIVE PRAIRIE MEADOW SEED MIXTURE SPECIES: FOXGLOVE/BEARDTONGUE (PENSTÉMON DIGITALIS) LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM)



SEED MIX

25 KG/HA APPLICATION RATE

27 KG/HA APPLICATION RATE

5 KG/HA APPLICATION RATE

HAND BROADCAST

HYDROSEED C/W BONDED FIBER MATRIX

HYDROSEED C/W BONDED FIBER MATRIX

BLACK EYED SUSAN (RUDBECKIA HIRTA)

FOWL BLUEGRASS (POA PALUSTRIS)

EARLY GOLDENROD (SOLIDAGO JUNCEA)

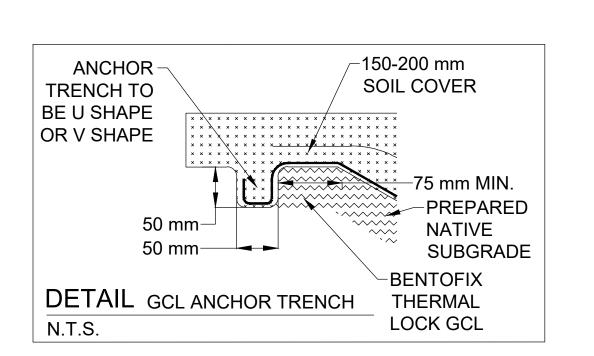
INDIANGRASS (SORGHASTUM NUTANS)

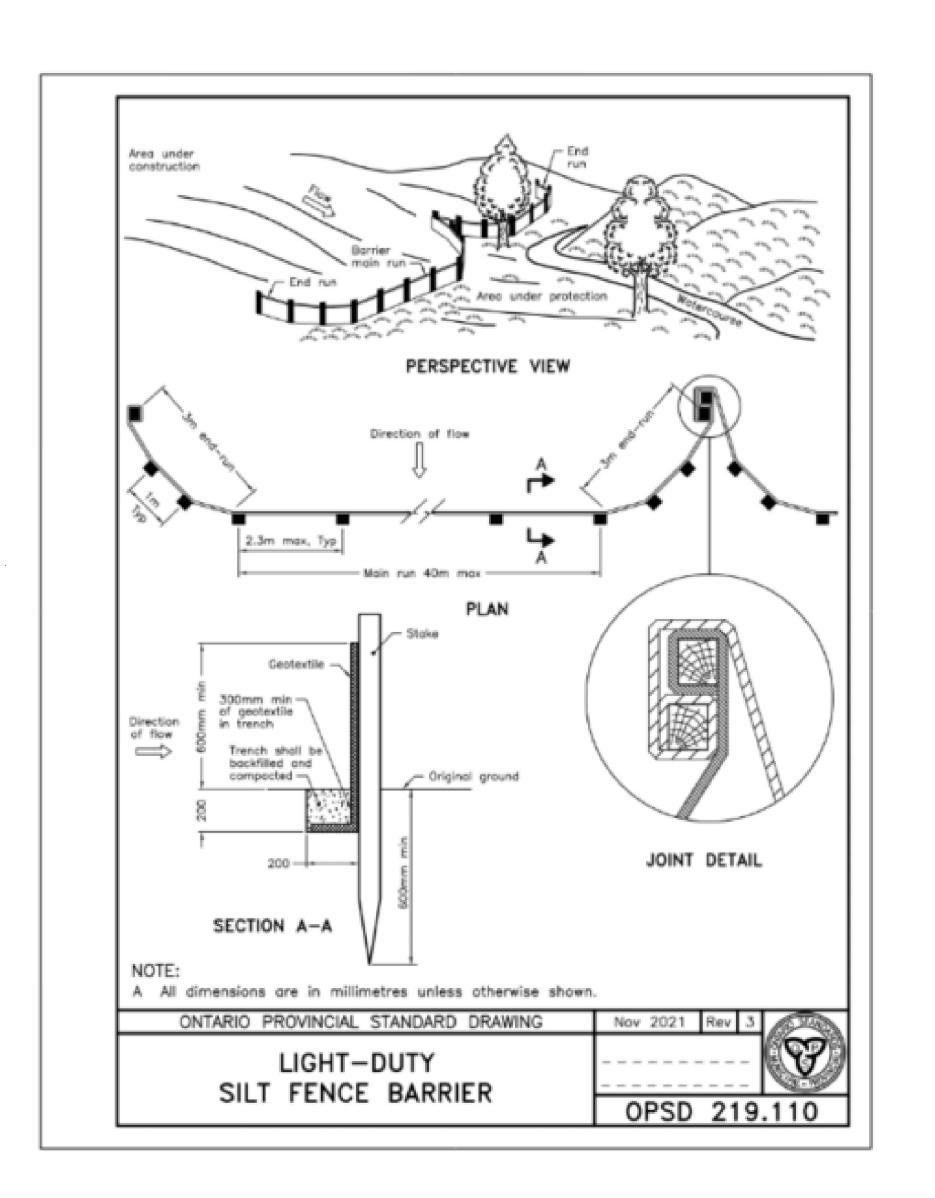
SWITCHGRASS (PANICUM VIRGATUM)

WHITE VERVAIN (VERBENA URTICIFOLIA)

WILD BERGAMOT (MONARDA FISTULOSÁ)

NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE) SHOWY TICK TREFOIL (DESMODIUM CANADENSE)





Lap in direction of flow

ONTARIO PROVINCIAL STANDARD DRAWING

GENERAL RIP-RAP LAYOUT

FOR SEWER AND CULVERT OUTLETS

Geotestile, Ty

SECTION B-B CUT

SECTION B-B FILL

TYPE B - WITH GEOTEXTILE

-600mm min, Typ

CUT OR FILL

SECTION A-A CUT

Toe of slope

SECTION A-A FILL

TYPE A - WITHOUT GEOTEXTILE

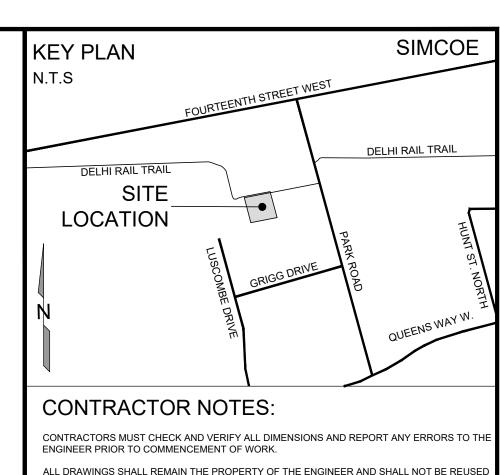
1 The thickness of the rip-rap layer

shall be at least 1.5 times the

A All dimensions are in millimetres

rip-rap mean diameter.

unless otherwise shown.



ALL DRAWINGS SHALL REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION. DRAWING SHOULD NOT BE SCALED FOR

THIS IS NOT A PLAN OF SURVEY AND SHALL NOT BE USE EXCEPT FOR THE PURPOSES INDICATED. BEARING AND DISTANCES SHOWN WERE DERIVED FROM REGISTERED PLAN

AS-CONSTRUCTED DESIGN PROFILES FROM JUDD INDUSTRIAL PARK STORM WATER MANAGEMENT FACILITY AS-CONSTRUCTED DRAWING, DATED JULY 2006. PROJECT No. 06-038

BENCHMARK (SITE)

CENTRE LID OF SANITARY MANHOLE, LOCATED NORTHWEST OF SUBJECT PROPERTY, ALONG THE DELHI RAIL TRAIL, AS SHOWN.

ELEVATION: 224.51

DIMENSIONS PURPOSES.

-300mm min all around layer of rip-rap

rip-rop lower hand laid

-300mm min

Typ. Note 1

Nov 2018 Rev

OPSD 810.010

600mm min, Typ

PLAN

CUT OR FILL

| No. | ISSUED DESCRIPTION | DATE (YYYY-MM-DI |
|-----|--------------------|---------------------|
| 1 | ISSUED FOR REVIEW | 2025-05-14 |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |



PRELIMINARY

JUDD INDUSTRIAL PARK POND SEDIMENT REMOVAL

PROJECT INFORMATION:

JUDD INDUSTRIAL PARK, SIMCOE, ONTARI

NORFOLK COUNTY

CLIENT INFORMATION: 12 GILBERTSON DRIVE, SIMCOE, ONTARIO, CANADA, N3Y 4N:

DRAWING NAME:

CONSTRUCTION NOTES & DETAILS

PROJECT No: GE24-0988-1

C500

DRAWING No:

N.T.S.

2 of 2 SHEET SET No:

