

# NSTALLATION & MAINTENANCE CONSIDERATIONS FOR TEMP. SEDIMENT TRAP

- 1. SEDIMENT TRAP MUST BE CONSTRUCTED PRIOR TO ANY CONSTRUCTION ACTIVITIES EXCEPT FOR TOPSOIL STRIPPING AND GRADING OPERATIONS ASSOCIATED WITH THE CONSTRUCTION OF THE SEDIMENT TRAP
- 2. PROPER COMPACTION CONTROL MUST BE USED WHEN CONSTRUCTING THE
- EMBANKMENT TO ENSURE ITS STABILITY

  3. THE EMERGENCY SPILLWAY INSTALLATION IS CRITICAL TO PREVENTING FAILURE OF THE STRUCTURE DURING HIGH FLOWS AND ALL SPECIFICATIONS PROVIDED BY
- THE DESIGNER MUST BE FOLLOWED.

  5. SEDIMENT ACCUMULATION IN THE TRAP MUST BE MEASURED A MINIMUM OF ONCE EVERY SIX (6) MONTHS. THE BASIN WILL REQUIRE CLEANING WHEN SEDIMENT ACCUMULATION REACHES 50% OF THE DESIGN CAPACITY.
- 6. SEDIMENT TRAP EMBANKMENTS, AND SPILLWAY SHOULD BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND SIGNIFICANT SNOWMELT EVENTS.
- 8. AT-SOURCE AND CONVEYANCE ESC MEASURES MUST BE USED IN ADDITION TO THE SEDIMENT TRAP

TOPSOIL AND EROSION AND SEDIMENT CONTROL (ESC) MANAGEMENT STRATEGY

THE EROSION AND SEDIMENT CONTROLS SHALL BE A MULTI BARRIER APPROACH TO PREVENT EROSION DURING CONSTRUCTION TO DEAL WITH SEDIMENT TRANSPORT AT SOURCE AND TO MINIMIZE SEDIMENT TRANSPORT FROM LEAVING THE SITE. THE MITIGATION MEASURES OUTLINED BELOW SHALL BE MAINTAINED BY THE CONTRACTOR THROUGH REGULAR INSPECTIONS, MONITORING AND MAINTENANCE UNTIL THE SOIL HAS BEEN STABILIZED. THE CONTRACTOR SHALL KEEP A COPY OF THE ESC PLANS AND THE TORONTO AND REGION CONSERVATION AUTHORITY, EROSION AND SEDIMENT CONTROL GUIDELINE, DECEMBER 2006, ON SITE AT ALL TIMES

## GENERAL NOTES

- EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING THE CONSTRUCTION PHASES TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.

  1. 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, INCLUDING SEDIMENT, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS. TRCA ENFORCEMENT OFFICER SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES ARE TO BE KEPT ON SITE AND USED AS NECESSARY.

  2. AN ENVIRONMENTAL MONITOR WILL ATTEND THE SITE TO INSPECT ALL NEW CONTROLS, AS WELL AS ON A REGULAR BASIS, OR FOLLOWING RAIN/SNOWMELT EVENT, TO MONITOR ALL WORKS, AND IN PARTICULAR WORKS

RELATED TO EROSION AND SEDIMENT CONTROLS. SHOULD CONCERNS ARISE ON SITE THE ENVIRONMENTAL MONITOR

WILL CONTACT THE TRCA ENFORCEMENT OFFICER AS WELL AS THE CONTRACTOR.

3. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM OF 30M FROM THE WATER.

#### EROSION CONTROLS

- 1. THE CONTRACTOR SHALL MONITOR THE WEATHER SEVERAL DAYS IN ADVANCE OF THE ONSET OF THE PROJECT TO ENSURE THAT THE WORKS WILL BE CONDUCTED DURING FAVOURABLE WEATHER CONDITIONS. SHOULD AN UNEXPECTED STORM ARISE, THE CONTRACTOR WILL REMOVE ALL UNFIXED ITEMS FROM THE STORM FLOOD PLAIN THAT WOULD HAVE THE POTENTIAL TO CAUSE A SPILL OR AN OBSTRUCTION TO FLOW, E.G., FUEL TANKS, PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.
- PORTA-POTTIES, MACHINERY, EQUIPMENT, CONSTRUCTION MATERIALS, ETC.

  2. ALL DEWATERING SHALL BE TREATED AND RELEASED TO THE ENVIRONMENT AT LEAST 30m FROM A WATERCOURSE OR WETLAND AND ALLOWED TO DRAIN THROUGH A WELL-VEGETATED AREA. NO DEWATERING EFFLUENT SHALL BE SENT DIRECTLY TO ANY WATERCOURSE, WETLAND OR FOREST, OR ALLOWED TO DRAIN ONTO DISTURBED SOILS WITHIN THE WORK AREA. THESE CONTROL MEASURES SHALL BE MONITORED FOR EFFECTIVENESS AND MAINTAINED OR REVISED TO MEET THE OBJECTIVE OF PREVENTING THE RELEASE OF SEDIMENT LADEN WATER.
- 3. THE CONTRACTOR SHALL MINIMIZE THE AREA OF DISTURBANCE AT ANY ONE TIME TO LIMIT THE DURATION OF SOIL EXPOSURE. CONSTRUCTION SHALL BE PHASED AS NECESSARY AND AREAS STABILIZED AS THE WORK PROGRESSES. AREAS DISTURBED AND LEFT EXPOSED FOR MORE THAN 15 DAYS TO BE PROTECTED WITH LAYER OF STRAW MULCH, TO THE SATISFACTION OF THE ENGINEER.
- 4. THE CONTRACTOR SHALL RETAIN AS MUCH EXISTING VEGETATION AS POSSIBLE BY LIMITING THE DISTURBANCE TO NON-ESSENTIAL AREAS AND STABILIZE EXPOSED SOILS QUICKLY. THE PROPOSED VEGETATION SPECIFICATION INCLUDES A FAST GERMINATING SEED MIX TO QUICKLY ESTABLISH GROUND COVER AND SHALL BE APPLIED WITHIN 15 DAYS OF COMPLETING THE CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL ENSURE THAT THE PROPOSED VEGETATION GERMINATES AND ESTABLISHES QUICKLY AND SHALL REAPPLY THE GROUND COVER MIX AS DIRECTED BY THE ENGINEER UNTIL A SUITABLE VEGETATED GROUND COVER IS IN PLACE.
- 5. THE CONTRACTOR SHALL MINIMIZE THE SLOPE LENGTH AND GRADIENT OF DISTURBED AREAS, MAINTAIN OVERLAND SHEET FLOW AND AVOID CONCENTRATED FLOWS.

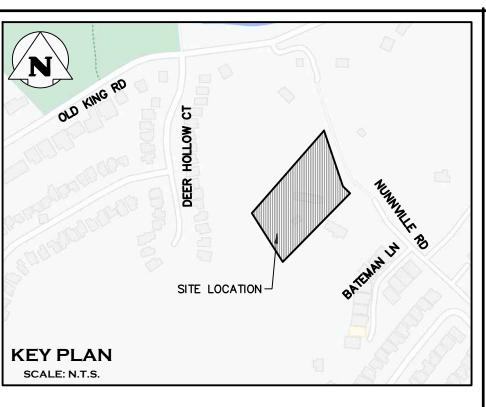
  6. THE CONTRACTOR SHALL ENSURE ALL TEMPORARY TOPSOIL AND EARTH STOCKPILES ARE PLACED MORE THAN 30M FROM A WATERCOURSE AND SEPARATED BY SILT FENCE AND A NATURAL VEGETATED AND / OR UNDISTURBED
- AREA.
  7. THE CONTRACTOR SHALL SHAPE AND GRADE TEMPORARY TOPSOIL STOCKPILE TO A MAXIMUM SLOPE OF 1.5:1 AND STABILIZE WITHIN 30 DAYS OF COMPLETION OF STOCKPILING.

#### SEDIMENT CONTROL

- 1. SILT FENCE TO BE INSTALLED IN LOCATIONS SHOWN ON PLAN AND AS DIRECTED BY SITE ENGINEER.
  2. SILT FENCE MUST BE INSPECTED WEEKLY FOR RIPS OR TEARS, BROKEN STAKES, BLOW-OUTS AND ACCUMULATION OF SEDIMENT
- SILT FENCE MUST BE INSPECTED FOLLOWING ALL 15mm OR GREATER RAIN STORM EVENTS OR AS DIRECTED BY SITE ENGINEER.
   SEDIMENT MUST BE REMOVED FROM SILT FENCE WHEN ACCUMULATION REACHES 50% OF THE HEIGHT OF FENCE.
   ALL SILT FENCES MUST BE REMOVED ONLY WHEN THE ENTIRE SITE IS STABILIZED AND AS DIRECTED BY THE SITE
- 6. STONE MUD MAT TO BE INSTALLED PRIOR TO CONSTRUCTION ON SITE.
  7. REMOVE ACCUMULATED SEDIMENT UPSTREAM OF ROCK CHECK DAM IF GREATER THAN ONE HALF OF DAM HEIGHT.
- SILT REMOVAL FROM ROCK CHECK DAMS MUST BE UNDERTAKEN WITH CARE TO MINIMIZE DOWNSTREAM SEDIMENTATION IN SWALE OR DITCH.
- 9. SEDIMENT TO BE CLEANED FROM TEMPORARY SEDIMENT TRAP ONCE ACCUMULATION REACHES 50% OF CAPACITY.

  10. SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY, OR AS DIRECTED BY THE ENGINEER

11. NUNNVILLE ROAD TO BE MONITORED DAILY AND SCRAPED, SWEPT, AND FLUSHED AS NECESSARY.



TOWN OF CALEDON PLANNING RECEIVED

Dec 22, 2023

4	ISSUED FOR SECOND SUBMISSION SPA	2023/DEC/19
3	ISSUED FOR FIRST SUBMISSION SPA	2023/APR/25
2	ISSUED FOR PRE-DART SUBMISSION	2023/APR/05
1	ISSUED FOR SECOND SUBMISSION ZBA	2023/MAR/06
0	ISSUED FOR FIRST SUBMISSION ZBA	2022/APR/13
No.	ISSUE / REVISION	YYYY/MMM/DD

## ELEVATION NOTE:

ELEVATIONS ARE GEODETIC IN ORIGIN AND ARE REFERRED TO FIRST ORDER BENCHMARK No.00819758057 HAVING AN ORTHOMETRIC ELEVATION OF 251.929 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, 1978 ADJUSTMENT (CGVD-1928:1978)

## SURVEY NOTES

SKETCH FOR ENGINEER'S USE COMPLETED BY R-PE SURVEYING LTD. ON THE 23RD DAY OF FEBRUARY, 2022.

JOB No. 21-434

SITE PLAN NOTES:

DESIGN ELEMENTS SHOWN ARE BASED ON SITE PLAN PREPARED BY VA3 DESIGN. PROJECT NUMBER: 22008 (2023/NOV/23)

## DRAWING NOTES:

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THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, LEVELS, AND DATUMS ON SITE AND REPORT ANY DISCREPANCIES OR OMISSIONS TO THIS OFFICE PRIOR TO CONSTRUCTION.

THIS DRAWING IS TO BE READ AND UNDERSTOOD IN CONJUNCTION WITH ALL OTHER PLANS AND DOCUMENTS APPLICABLE TO THIS PROJECT. DO NOT SCALE THIS DRAWING.

ALL EXISTING UNDERGROUND UTILITIES TO BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

## 13290 NUNNVILLE RD TOWN OF CALEDON

Drawing

EROSION, SEDIMENT CONTROL NOTES & DETAILS





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