

TOWN OF CALEDON EROSION AND SEDIMENT CONTROL NOTES

1. ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF WORKS ON SITE AND SHALL BE MAINTAINED DURING ALL CONSTRUCTION PHASES OF THE WORKS.
2. THE ESC STRATEGIES OUTLINED ON THIS PLAN ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO PREVENT SEDIMENT RELEASE OUTSIDE THE WORK AREA. THE TOWN IS TO BE ADVISED OF ANY CHANGES TO ESC MEASURES, AND AT THE DISCRETION OF THE TOWN, UPDATED PLANS MAY BE REQUIRED.
3. THE CONTRACTOR IS TO ASSIGN AN ENVIRONMENTAL MONITOR (EM) TO ASSURE CONSTRUCTION ACTIVITIES COMPLY WITH THE ENVIRONMENTAL PROVISIONS AND AGENCY PERMITS. THE EM WILL BE A QUALIFIED PERSON AS DETERMINED BY THE TOWN AND/OR CONSERVATION AUTHORITY. THE EM SHOULD SUBMIT INSPECTION FORMS ELECTRONICALLY TO THE TOWN AND CONSERVATION AUTHORITY UPON REQUEST.
4. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL ESC MEASURES IN WORKING CONDITION AT ALL TIMES TO THE SATISFACTION OF THE TOWN AND/OR CONSERVATION AUTHORITY. ALL DAMAGED ESC MEASURES SHOULD BE REPAIRED AND/OR REPLACED WITHIN 48 HOURS OF THE INSPECTION.
5. THE CONTRACTOR SHALL ROUTINELY INSPECT ALL ESC DEVICES TO ENSURE PROPERTY WORKING ORDER. FREQUENCY OF INSPECTIONS OF ESC MEASURES IS AS FOLLOWS:
DURING EARTHWORKS ACTIVITIES:
 - ON A WEEKLY BASIS;
 - PRIOR TO PREDICTED RAINFALL EVENTS;
 - AFTER EVERY RAINFALL EVENT;
 - AFTER SIGNIFICANT SNOWMELT EVENT; AND
 - DAILY DURING EXTENDED RAIN OR SNOWMELT PERIODS.DURING TIMES OF NO EARTHWORKS ACTIVITY:
 - ONCE EVERY 2 WEEKS;
 - AFTER SIGNIFICANT SNOWMELT EVENTS;
 - AFTER SIGNIFICANT RAINFALL EVENTS (MORE THAN 25MM OF RAINFALL IN A 24 HOUR PERIOD).
6. ALL CONSTRUCTION VEHICLES MUST ENTER AND EXIT THE SITE ONLY FROM THE APPROVED ACCESS ROUTE(S) AS SHOWN ON THE PLANS. CONSTRUCTION ACCESS WILL BE MAINTAINED TO THE SATISFACTION OF THE TOWN/REGION. STREET SWEEPING IS REQUIRED AS NEEDED.
7. NO CONSTRUCTION ACTIVITY OR MACHINERY SHALL BE ALLOWED BEYOND THE SILT FENCE OR LIMITS OF THE SITE WORKS.
8. THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT DUST CONTROL MEASURES AND CONSTRUCTION BEST PRACTICE GUIDELINES AS APPROVED BY THE TOWN AND/OR CONSERVATION AUTHORITY.
9. ALL DISTURBED GROUND LEFT INACTIVE FOR 30 DAYS SHALL BE VEGETATED, SUBJECT TO WEATHER CONDITIONS. DISTURBED AREAS ARE TO BE HYDROSEED (OR APPROVED EQUIVALENT) TO THE SATISFACTION OF THE TOWN.
10. ALL TOPSOIL STOCKPILES SHALL BE SURROUNDED WITH SEDIMENT CONTROL FENCE. THE MAXIMUM SIDE SLOPE SHALL BE 2:1 (H:V). ONCE TOPSOIL STRIPPING IS COMPLETED THE STOCKPILE SHALL BE VEGETATED, SUBJECT TO WEATHER CONDITIONS, BY HYDROSEED, OR AN APPROVED EQUIVALENT, TO THE SATISFACTION OF THE TOWN.
11. CONTRACTOR SHALL TAKE CARE AND CONTROL SPILLS, FLUIDS AND MATERIALS DURING CONSTRUCTION TO MINIMIZE RISK TO THE ENVIRONMENT.

SEDIMENT TRAP MAINTENANCE SCHEDULE

1. SEDIMENT TRAPS ARE TO BE INSPECTED AFTER EVERY RAINFALL AND MAINTAINED AS DIRECTED BY THE CONSULTANT AND TO THE SATISFACTION OF THE CITY/CVC.
2. ANY SIGNS OF VISIBLE DAMAGE TO THE TRAP OUTLET SHALL BE REPAIRED IMMEDIATELY
3. TRASH AND DEBRIS SHALL BE REMOVED FROM WITHIN THE AREAS AND INLET CHAMBER (WHERE PRESENT).
4. THE TRAP SILTATION CONTROL FENCING AROUND TRAPS SHALL BE CLEANED PERIODICALLY AND REPLACED IF EXCESSIVE SEDIMENT BUILDUP IS EVIDENT.
5. THE SEDIMENT TRAP SIDES AND DITCH SIDESLOPES SHALL BE INSPECTED TO ENSURE THAT THEY HAVE NOT ERODED OR SETTLED. REMEDIAL ACTION SHALL BE TAKEN IMMEDIATELY TO RESHAPE AND STABILIZE THE SLOPES.
6. WHEN SEDIMENT ACCUMULATES TO HALF OF THE HEIGHT OF THE SEDIMENT BASIN DESIGN DEPTH, 0.5m (TRAP). THEN SEDIMENT REMOVAL IS REQUIRED. CARE MUST BE TAKEN TO AVOID DAMAGING THE OUTLET AND INLET DURING THIS MAINTENANCE OPERATION. DISPOSAL OF THE SEDIMENT SHALL BE TO A CONTROLLED AREA AND STABILIZED (VEGETATED).
7. ALL WORKS PERFORMED SHALL BE TO THE SATISFACTION OF THE CITY/CVC.

SPILL RESPONSE PLAN

1. A SPILL KIT SHALL BE KEPT ON SITE DURING CONSTRUCTION. THE SPILL KIT SHOULD INCLUDE, FOR EXAMPLE, SORBENT MATERIAL (E.G., SORBENT PADS, SORB ALL, VERMICULITE), SHOVEL, PORTABLE BROOMS, GEOTEXTILE FABRIC, SAND BAGS, SEDIMENT FENCING, PLASTIC BAGS, PPE (E.G., GLOVES, BOOTS, RAIN GEAR), BUCKETS, STAKES, TARPULINS. IN THE CASE OF A SPILL THE MOECC SHOULD BE CALLED AT 1800-268-8060.
2. DEBRIS, INCLUDING LARGE PIECES OF WOOD, GARBAGE, DEBRIS, EXCESS FILL, ETC., RESULTING FROM THE CONSTRUCTION SHALL BE DISPOSED OF AT AN APPROVES SITE(S) WHICH IS OUT OF THE FLOODPLAIN AREA AND ADJACENT SLOPES OR APPROVED LANDFILL SITES.
3. AREAS WHERE VEGETATION HAS BEEN REDUCED AS A RESULT OF CONSTRUCTION ACTIVITIES MUST BE REVEGETATED WITH INDIGENOUS SPECIES AND HYDROSEED AS SOON AS BACKFILLING AND COMPACTION IS COMPLETED.
4. CLEANING AND REFUELING OF EQUIPMENT IS NOT PERMITTED WITHIN 30M OF ANY WATERCOURSE.

RESTORATION

WITHIN 30 DAYS AFTER AREA GRADING IS COMPLETE, THE DISTURBED AREAS INCLUDING TOPSOIL STOCKPILES AND TEMPORARY DRAINAGE SWALES SHALL BE RESTORED WITH GRASS VEGETATION USING HYDROSEED OR SODDING. THE ONLY EXCEPTION TO THIS REQUIREMENT WILL BE LOT OR BLOCK AREAS WHICH ARE UNDER AN ACTIVE BUILDING PERMIT APPLICATION. ALL HYDROSEEDING FOR RESTORATION SHALL BE COMPLETED PRIOR TO MID-SEPTEMBER OR AT THE DISCRETION OF THE COMMISSIONER. THE METHOD OF HYDROSEEDING SHALL BE APPROVED BY THE COMMISSIONER. AREAS WHICH DO NOT ESTABLISH COVER SHALL BE HYDROSEED AGAIN AT THE DISCRETION OF THE COMMISSIONER.

DUST CONTROL MEASURES

A DUST CONTROL PLAN WILL INCLUDE:

1. IDENTIFICATION OF ALL POTENTIAL DUST SOURCES;
2. A DESCRIPTION OF THE DUST CONTROL METHOD(S) TO BE USED FOR EACH SOURCE;
3. A SCHEDULE, RATE OF APPLICATION, CALCULATIONS OR SOME OTHER MEANS OF IDENTIFYING HOW OFTEN, HOW MUCH OR WHEN THE CONTROL METHOD IS TO BE USED;
4. PROVISIONS FOR MONITORING AND RECORD KEEPING;
5. A BACKUP PLAN IN CASE THE FIRST CONTROL PLAN DOES NOT WORK OR IS INSUFFICIENT;

PRE-GRADING PLANNING:

1. TOPSOIL STRIPPING AND EARTHWORKS TO BE TIMED TO COINCIDE WITH EACH MUNICIPAL SERVICING AND/OR CONSTRUCTION PHASE; OR
2. STRIP TOPSOIL AND GRADE ENTIRE PROJECT AND APPLY VEGETATION GROUND COVER TO GRADED OR TOPSOIL STRIPPED AREAS WHERE CONSTRUCTION PHASE BEGINS MORE THAN 90 DAYS AFTER GRADING OR TOPSOIL STRIPPING OPERATIONS END.

WATERING (POST-GRADING):

1. WITHIN ACTIVE TOPSOIL STRIPPING, EARTH MOVING OR UNDERGROUND/ABOVEGROUND MUNICIPAL SERVICING AREAS, WATER TO BE APPLIED AT SUFFICIENT FREQUENCY AND QUANTITY TO PREVENT VISIBLE EMISSIONS FROM EXTENDING MORE THAN 30m FROM POINT OF ORIGIN.

TOPSOIL STOCKPILES:

1. CONFINE LOAD IN/OUT PROCEDURES TO DOWNWIND SIDE OF THE MATERIAL. TOPSOIL PILE TO BE LOCATED DOWNWIND OF EXISTING RESIDENTIAL AREAS.
2. APPLY WATER TO HAUL ROADS AND STOCKPILE BY WAY OF WATER TRUCK.
3. GRADE AND VEGETATE TOPSOIL STOCKPILE TO PREVENT FUTURE WIND EROSION.

WIND FENCING:

1. INSTALL 1.0m to 1.5m HIGH BARRIERS WITH 50% OR LESS POROSITY LOCATED ADJACENT TO ROADWAYS OR URBAN AREAS TO REDUCE THE AMOUNT OF WINDBLOWN MATERIAL LEAVING THE SITE.

REDUCE VEHICLE SPEED:

1. LIMIT VEHICLE SPEED TO 25km/hr MAXIMUM. MAY NEED TO BE USED IN CONJUNCTION WITH WATERING TO PREVENT VISIBLE DUST EMISSIONS.

MINIMIZE DISRUPTED SURFACE AREAS:

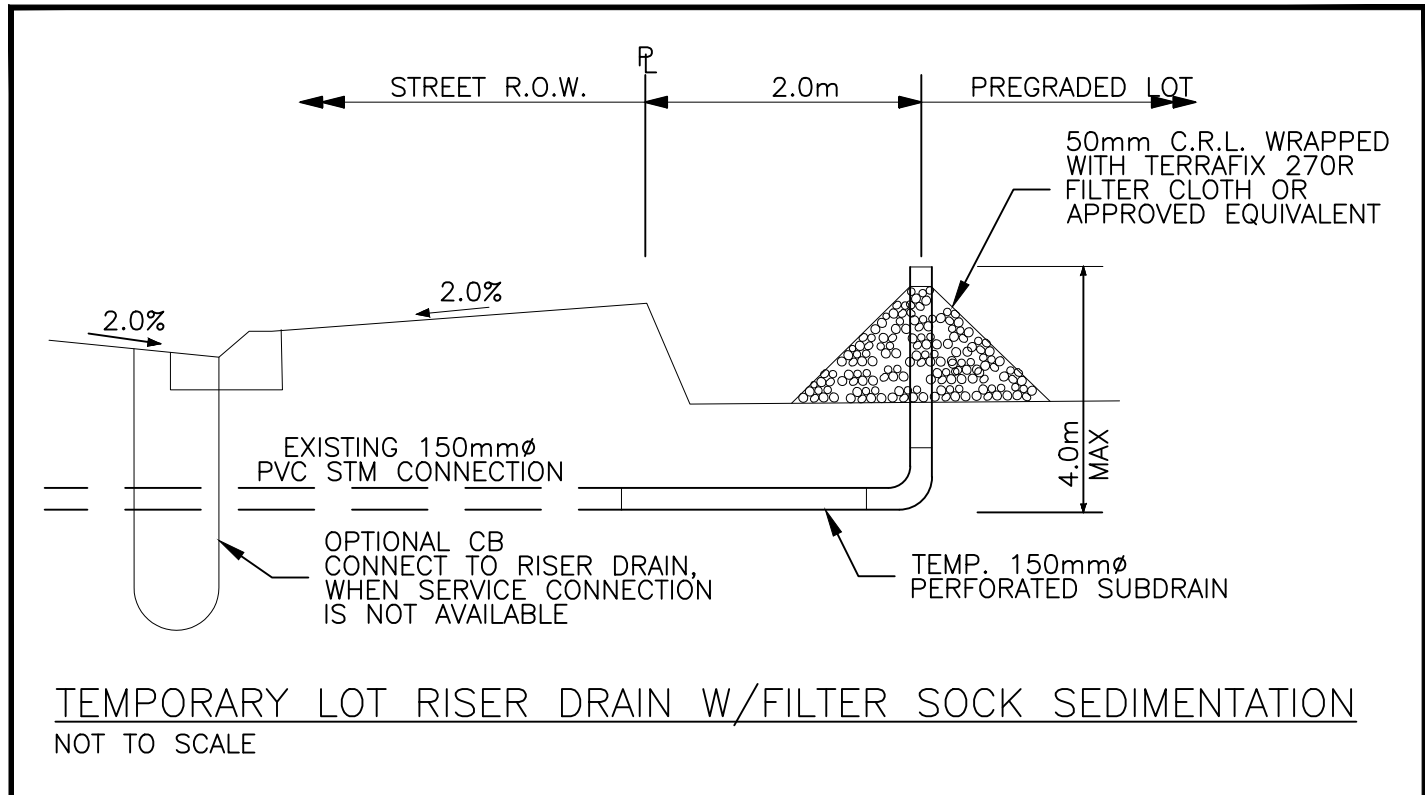
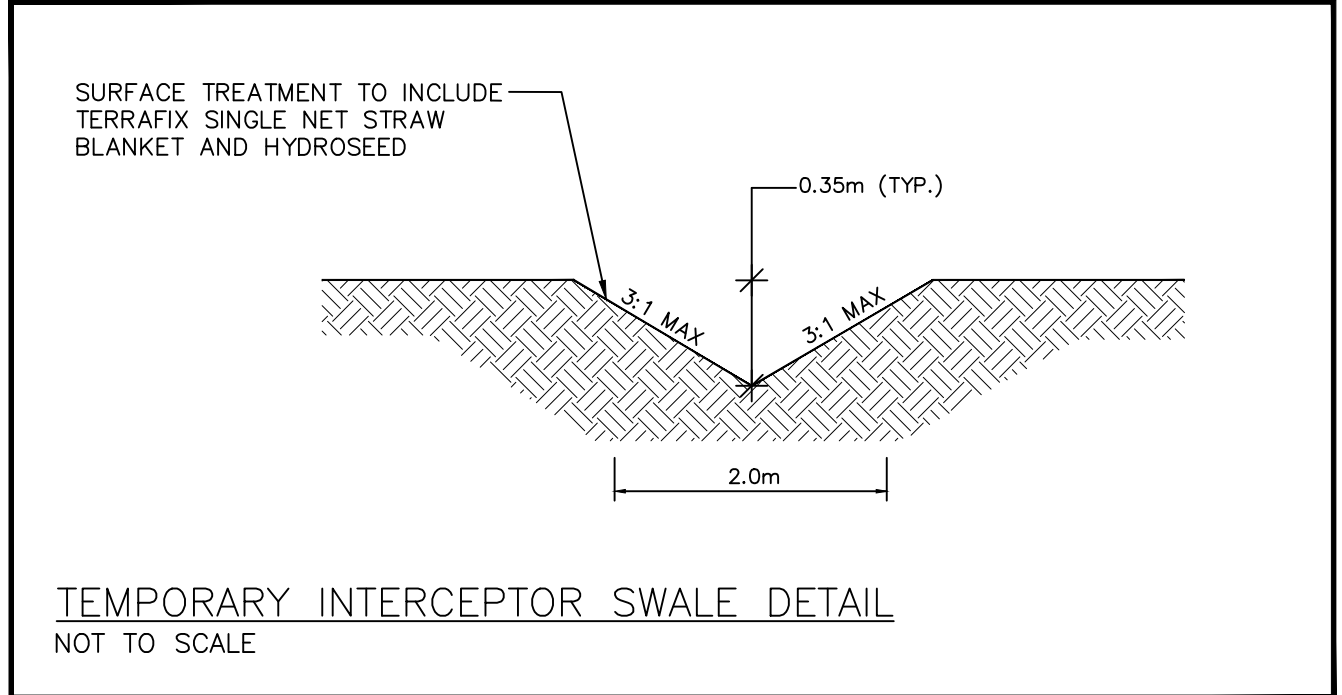
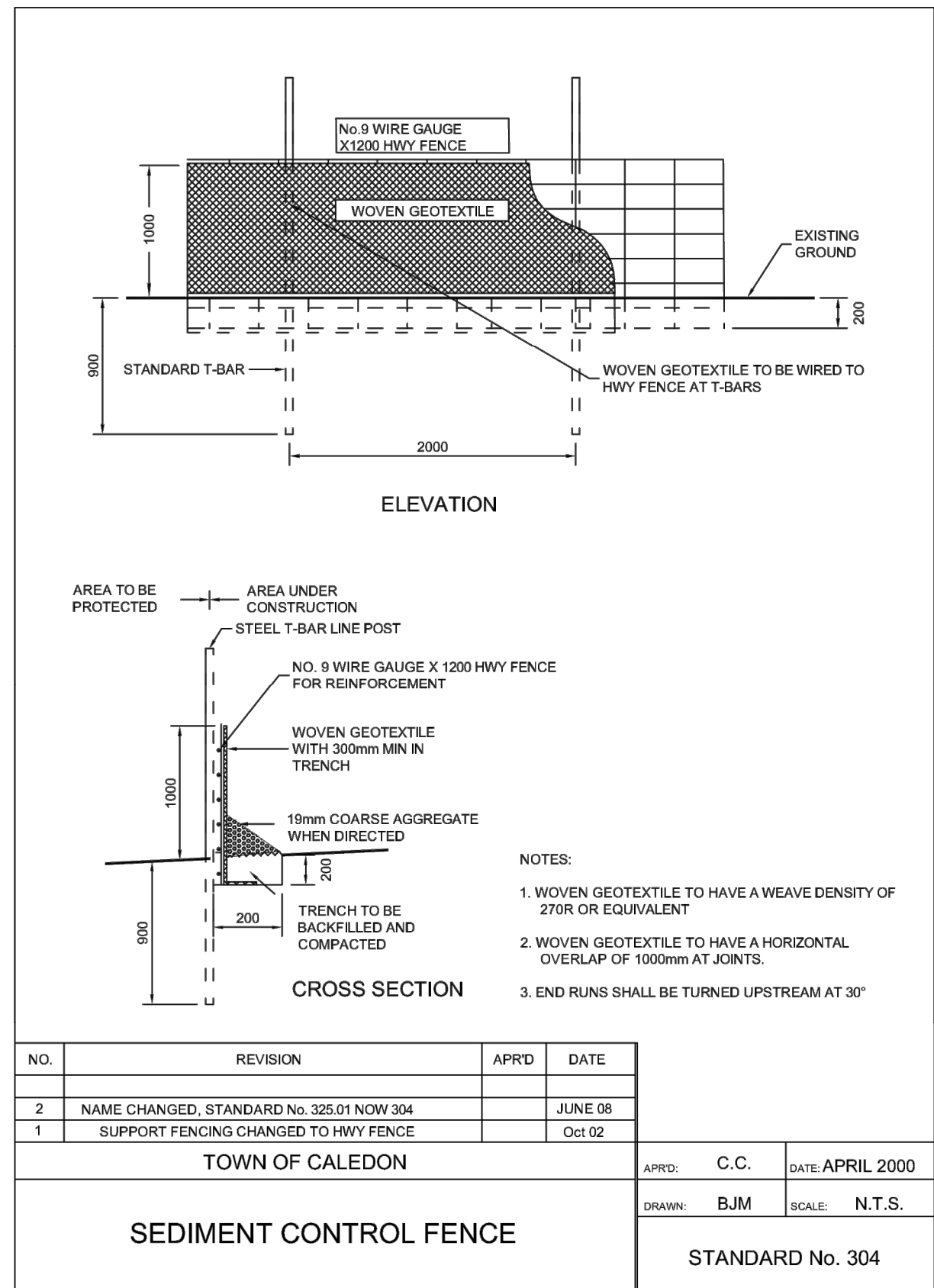
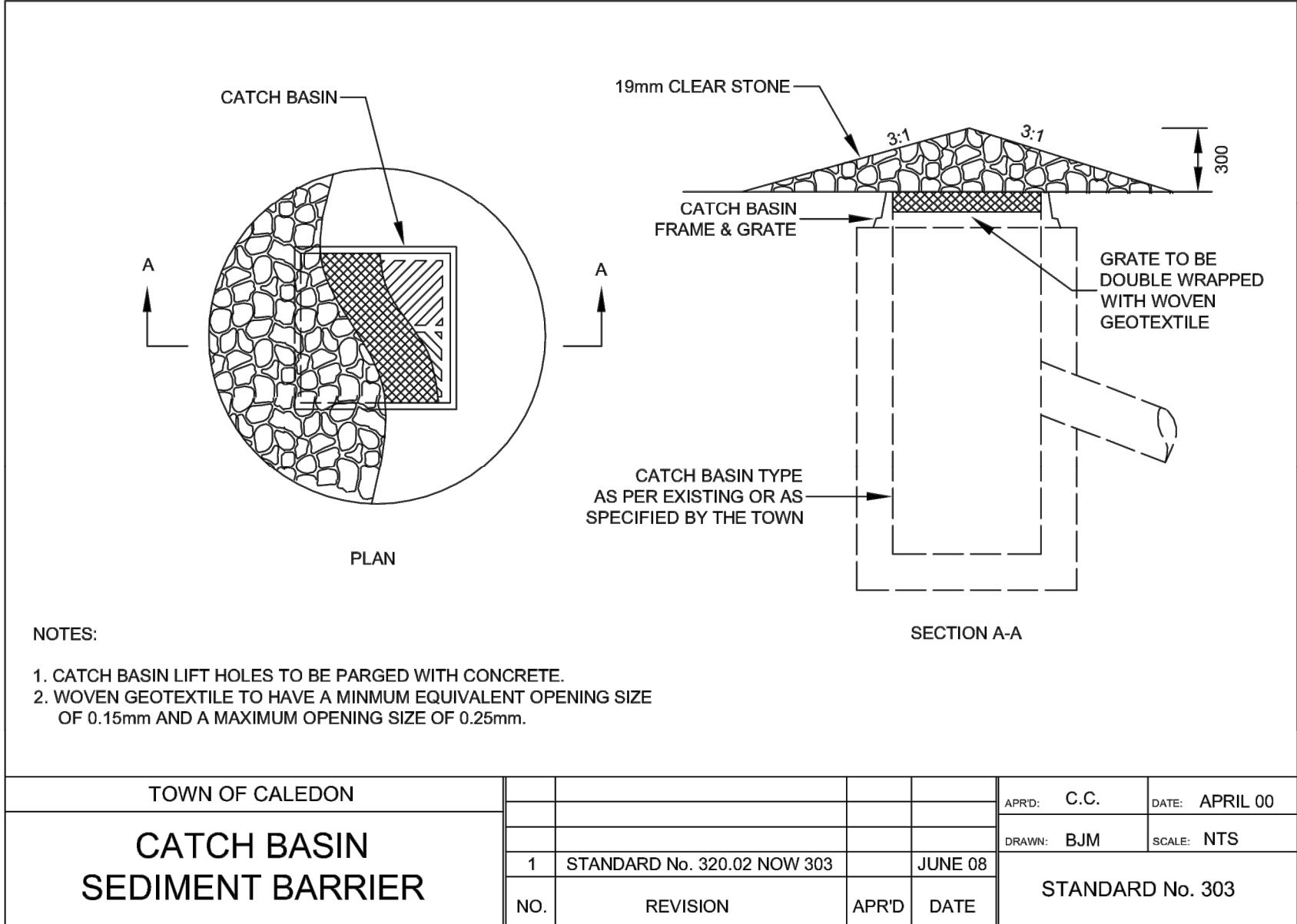
1. TO DISTURB ONLY THOSE AREAS ABSOLUTELY REQUIRED. VEGETATION LEFT IN PLACE DURING SITE WORK REDUCES THE AREA SUBJECT TO WIND EROSION.

RESTRICT ACTIVITIES DURING HIGH WIND PERIODS:

1. RESCHEDULE WORK AROUND WINDY DAYS. THE HIGH VISIBILITY OF CERTAIN WORKS AND THE CLOSE PROXIMITY AND POPULATION IMPACTED SHOULD BE TAKEN INTO CONSIDERATION WHEN SCHEDULING DUST-PRODUCING WORK.

ROAD CLEANING:

1. SPILLAGE, EROSION OR MATERIAL "TRACKED OUT" ON A ROAD TO BE CLEANED USING MECHANICAL STREET SWEEPERS OR FLUSHER TRUCK BY AT LEAST THE END OF THE WORK DAY AND IMMEDIATELY IF IT EXTENDS MORE THAN 15 METRES ALONG A PAVED PUBLIC ROADWAY.



4.				
3.				
2.				
1.				
No.	DESCRIPTION	DATE	BY	APPROVED
REVISIONS				
APPROVED FOR CONSTRUCTION				
THIS APPROVAL CONSTITUTES A GENERAL REVIEW AND DOES NOT CERTIFY DIMENSIONAL ACCURACY.				
THIS APPROVAL IS SUBJECT TO THE FURTHER CERTIFICATION OF THE "AS CONSTRUCTED" WORKS BY A REGISTERED PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO				
DATE: _____ APPROVED BY: _____				
BENCH MARK: ELEVATIONS ARE IN METRES AND ARE DERIVED FROM REGION OF PEEL BENCHMARK No. 25, ON THE NORTH FACE AT THE WEST CORNER OF A TWO STOREY CONCRETE BLOCK BUILDING LOCATED ON THE EAST SIDE OF AIRPORT ROAD APPROXIMATELY 0.32 KM NORTH OF THE NORTHERLY LIMIT OF CALEDON EAST. ELEVATION = 310.640				
 Stantec Consulting Ltd. 675 COCHRANE DRIVE, WEST TOWER SUITE 300 MARKHAM, ONTARIO L3R 0B8 TELEPHONE: (905) 944-7777 FAX: (905) 474-9889				
PROJECT NAME PROPOSED MIXED-USE DEVELOPMENT CHATEAUX OF CALEDON TOWN SQUARE 0 ATCHISON DRIVE, BLOCK 164 ON PLAN 43M-1840 TOWN FILE No.: PRE 17-0084				
 Region of Peel				
 TOWN OF CALEDON				
EROSION & SEDIMENT CONTROL DETAILS				
SCALE : N/A		PROJECT No. 160622596		
DESIGN BY: J.L.	CHECKED BY: S.K.	DRAWING No. ESC-2		
DRAWN BY: J.L.	DATE: JUNE 2020			