



KEY PLAN SCALE 1:7500

LEGEND

- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING SINGLE CATCHBASIN
- EXISTING DOUBLE CATCHBASIN
- EXISTING VALVE & BOX
- EXISTING VALVE & CHAMBER
- EXISTING HYDRANT & VALVE
- EXISTING WATER SERVICE BOX LOCATION
- EXISTING UTILITY LAMP
- EXISTING CONTOUR AND ELEVATION
- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- PROPOSED SLOPES
- EXISTING SLOPES
- OVERLAND FLOW
- SUBJECT SITE
- LIMIT OF CONSTRUCTION

No.	DESCRIPTION	DATE	BY	APPROVED
4.				
3.				
2.				
1.				

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

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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
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LICENCED PROFESSIONAL ENGINEER
S.A. KHAN
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APR.26/19
PROVINCE OF ONTARIO

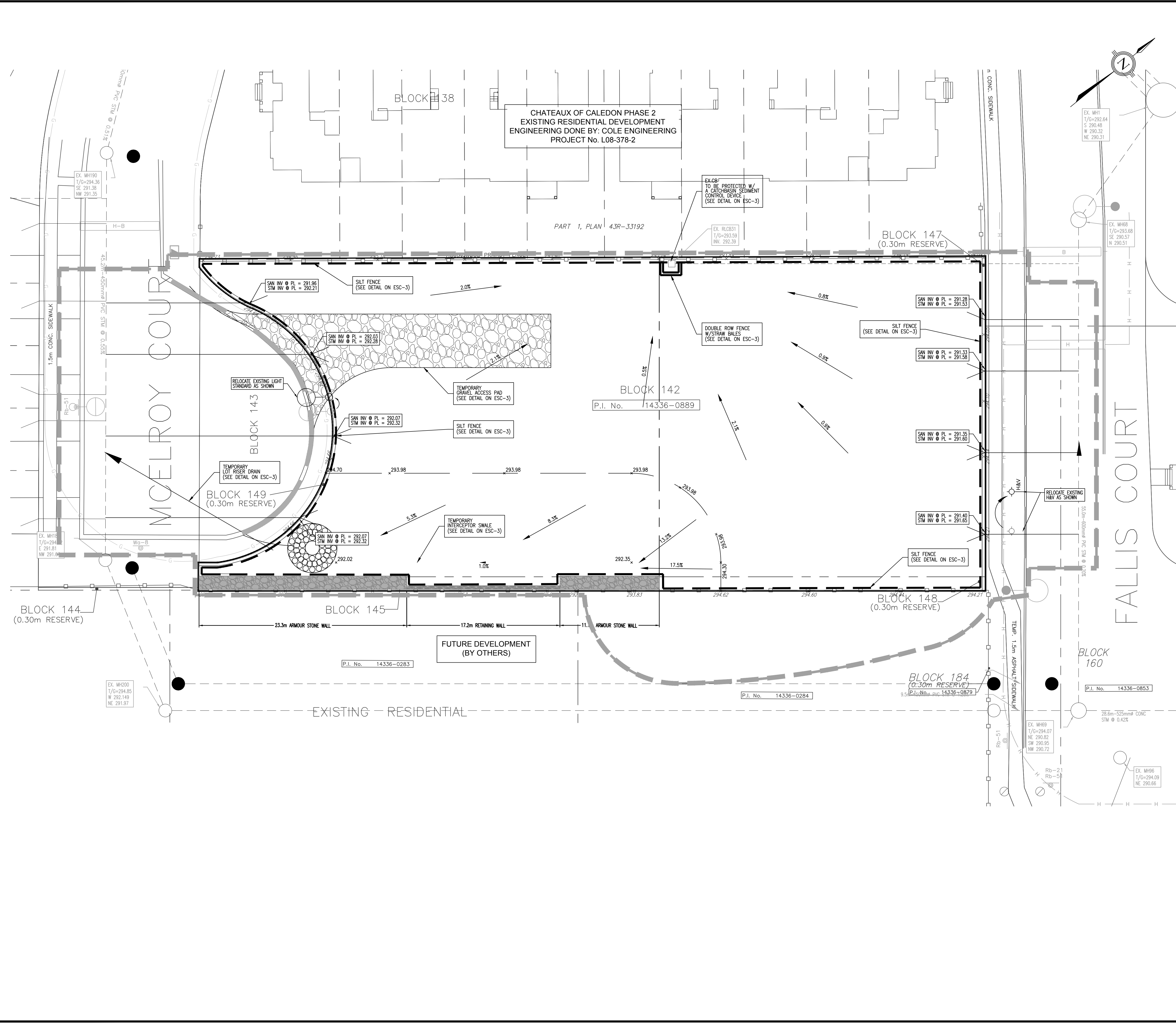
PROJECT NAME
PROPOSED TOWNHOUSE DEVELOPMENT
CHATEAUX OF CALEDON CORPORATION

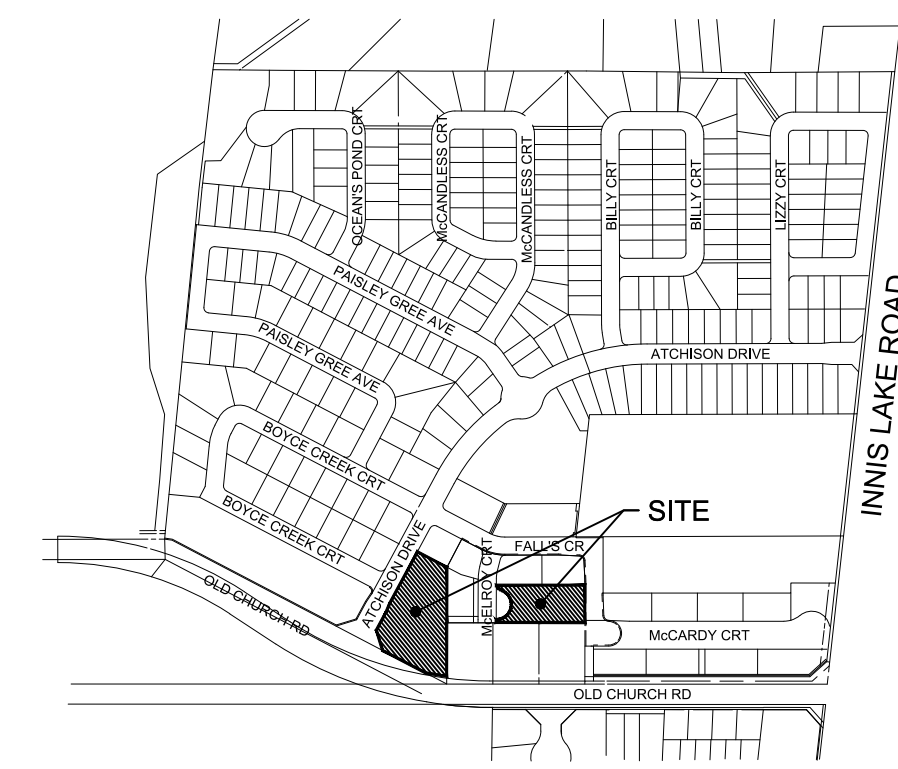
Region of Peel
RZ-18-002C, SP-18-002C

TOWN OF CALEDON

EROSION & SEDIMENT CONTROL PLAN
STAGE 1: TOPSOIL STRIPPING

SCALE : 1:200	PROJECT No. 160622596
DESIGN BY: JL	CHECKED BY: SK
DRAWN BY: JL	DATE: FEBRUARY 2019
	DRAWING No. ESC-1





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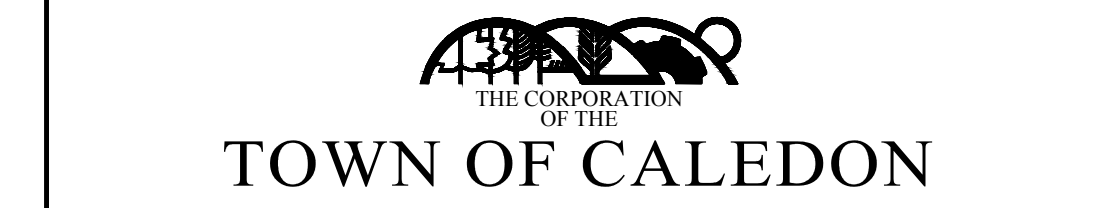
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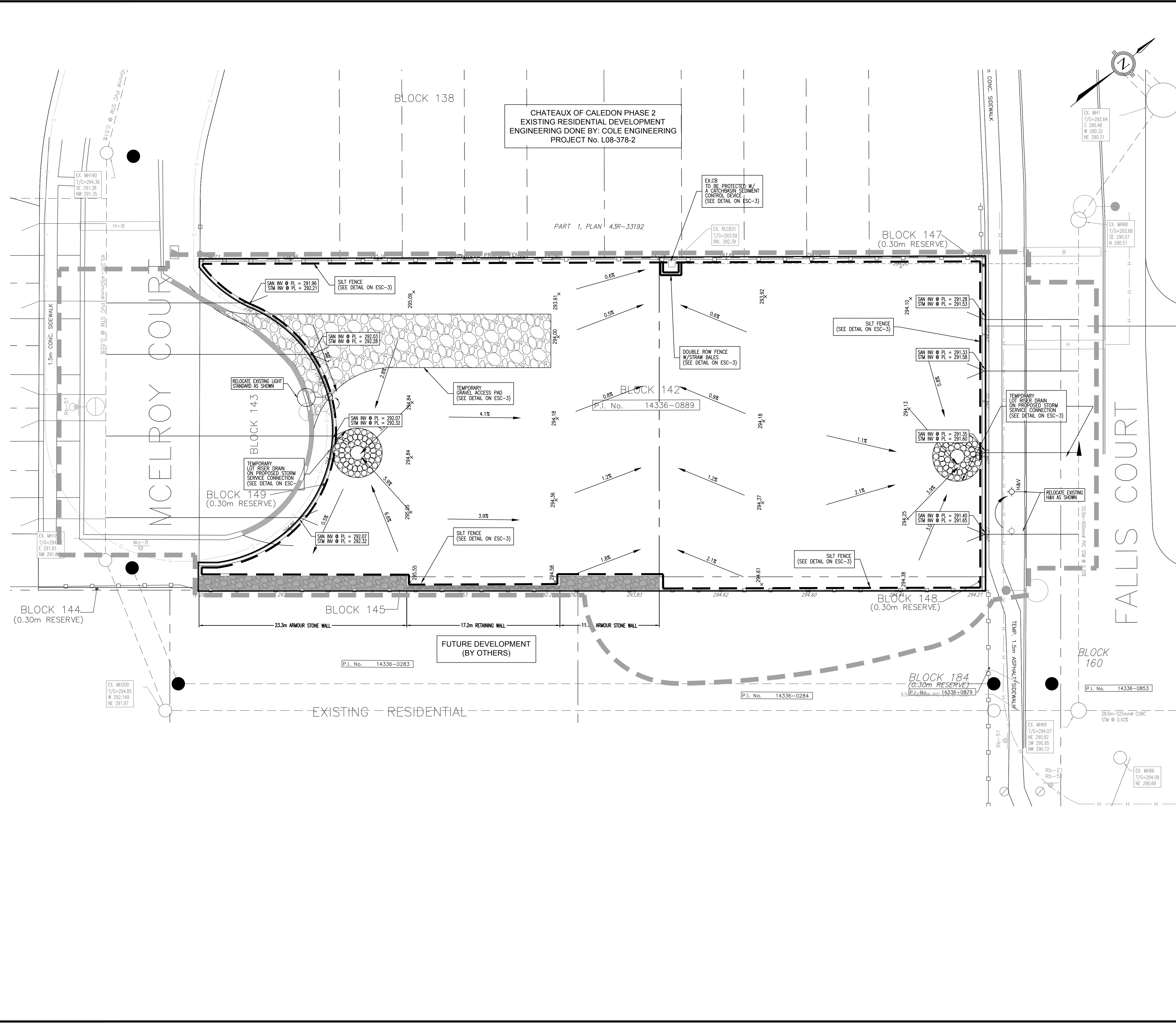
PROJECT NAME
PROPOSED TOWNHOUSE DEVELOPMENT
CHATEAUX OF CALEDON CORPORATION



EROSION & SEDIMENT CONTROL PLAN
STAGE 2: POST SERVICING

SCALE : 1:200	PROJECT No. 160622596
DESIGN BY: JL	CHECKED BY: SK
DRAWN BY: JL	DATE: FEBRUARY 2019
	DRAWING No. ESC-2

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CHATEAUX OF CALEDON PHASE 2
EXISTING RESIDENTIAL DEVELOPMENT
ENGINEERING DONE BY: COLE ENGINEERING
PROJECT No. L08-378-2

PART 1, PLAN 43R-33192

P.I. No. 14336-0889

P.I. No. 14336-0283

P.I. No. 14336-0284

P.I. No. 14336-0879

P.I. No. 14336-0853

GENERAL NOTES

- ALL SEDIMENT CONTROLS AND TREE PROTECTION FACILITIES MUST BE IN PLACE PRIOR TO SITE DISTURBANCE.
- ALL SEDIMENTATION CONTROL MEASURES TO BE INSPECTED REGULARLY AND MAINTAINED BY CONTRACTOR IN PROPER WORKING ORDER DURING SITE GRADING AND TO REMAIN IN PLACE UNTIL COMPLETION OF RESTORATION MEASURES.
- UNLESS OTHERWISE NOTED SWALE DEPTHS ARE 0.35m MAX
- DURING CONSTRUCTION, IF CONCENTRATED FLOWS ARE EXPERIENCED AT SITE OUTLET LOCATIONS, ROCK CHECK DAMS AND/OR FILTER CHECK DAMS WILL BE PROVIDED TO PROTECT THE DOWNSTREAM LANDS FROM SEDIMENT TRANSPORT. IF DEEMED NECESSARY THE USE OF ADDITIONAL SEDIMENT BASINS WILL BE ACCEPTABLE.
- RESTORATIVE SEEDING AND PLANTING TO TAKE PLACE AS SOON AS POSSIBLE AFTER THE COMPLETION OF SITE GRADING.
- SEDIMENT CONTROL MEASURES ADJACENT TO CONSTRUCTION AREAS MAY REQUIRE REMOVAL/RELOCATION IN ORDER TO COMPLETE SPECIFIC CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL ENSURE THAT ADEQUATE SEDIMENT CONTROL MEASURES ARE IN PLACE AT ALL TIMES.
- FIELD REPRESENTATIVE TO MONITOR THE CONTRACTORS SEDIMENT AND EROSION CONTROL MEASURES TO ENSURE THAT THE MEASURES ARE INSTALLED, MAINTAINED AND FUNCTIONING AS INTENDED, AND WILL BE RESPONSIBLE FOR THE FOLLOWING:
 - UNDERSTAND THE EROSION/SEDIMENT CONTROL PLANS AND CONSTRUCTION METHODS.
 - RECOGNIZE THE EFFECTIVENESS OF EROSION/SEDIMENT CONTROL MEASURES AND COMMUNICATES NON-COMPLIANCE CONCERNS AND/OR RECOMMENDATIONS TO THE ENGINEER AND CVC/CITY.
 - COMPLETE A WALK-THROUGH OF THE CONSTRUCTION SITE WITH THE FOLLOWING (MINIMUM) FREQUENCY DURING CONSTRUCTION:
 - ON A WEEKLY BASIS (HIGH RISK AREAS WILL REQUIRE GREATER FREQUENCY)
 - PRIOR TO AND AFTER EVERY RAINFALL EVENT
 - DURING EXTENDED RAIN OR SNOWMELT PERIODS
 - MONTHLY INSPECTIONS DURING PERIODS OF INACTIVITY
 - COMPLETE WEEKLY INSPECTION REPORTS IN ACCORDANCE WITH APPENDIX F OF THE "EROSION AND SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION" MANUAL (ESC/06). A SAMPLE OF THIS REPORT HAS BEEN PROVIDED ON THIS DRAWING. WEEKLY INSPECTION REPORTS TO BE FORWARDED TO THE ENGINEER AND CVC/CITY ON A WEEKLY BASIS.

SEDIMENT TRAP MAINTENANCE SCHEDULE

- SEDIMENT TRAPS ARE TO BE INSPECTED AFTER EVERY RAINFALL AND MAINTAINED AS DIRECTED BY THE CONSULTANT AND TO THE SATISFACTION OF THE CITY/CVC.
- ANY SIGNS OF VISIBLE DAMAGE TO THE TRAP OUTLET SHALL BE REPAIRED IMMEDIATELY
- TRASH AND DEBRIS SHALL BE REMOVED FROM WITHIN THE AREAS AND INLET CHAMBER (WHERE PRESENT).
- THE TRAP SITUATION CONTROL FENCING AROUND TRAPS SHALL BE CLEANED PERIODICALLY AND REPLACED IF EXCESSIVE SEDIMENT BUILDUP IS EVIDENT.
- 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.
- 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 TRAP AND INLET DURING THIS MAINTENANCE OPERATION. DISPOSAL OF THE SEDIMENT SHALL BE TO A CONTROLLED AREA AND STABILIZED (VEGETATED).
- ALL WORKS PERFORMED SHALL BE TO THE SATISFACTION OF THE CITY/CVC.

SPILL RESPONSE PLAN

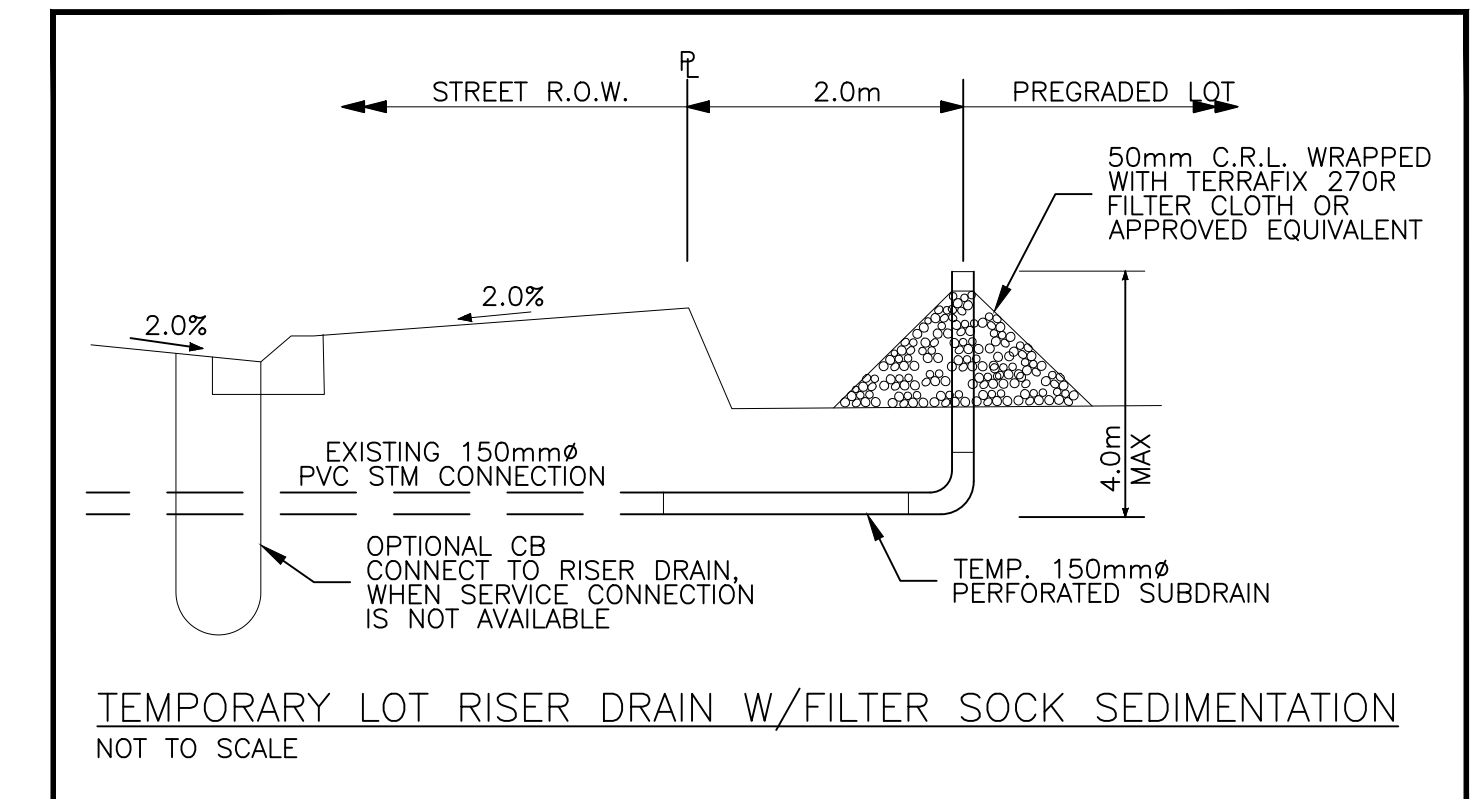
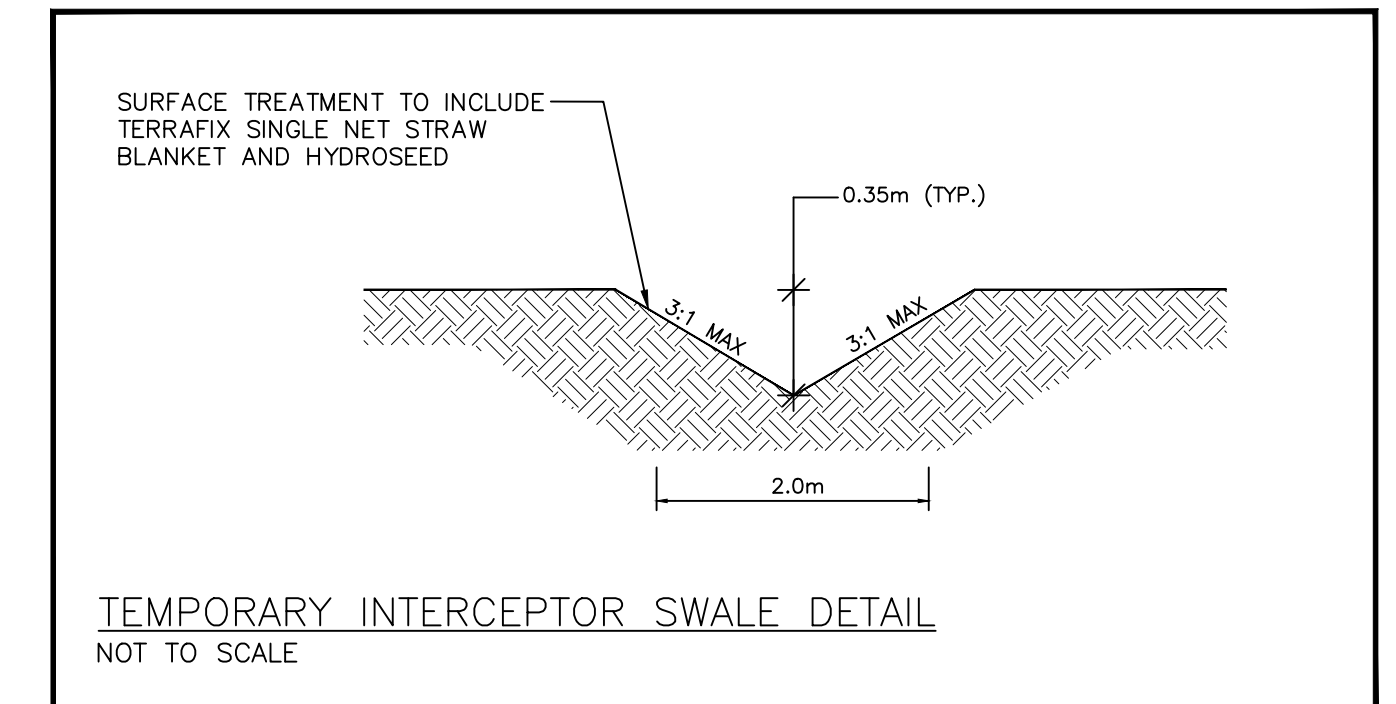
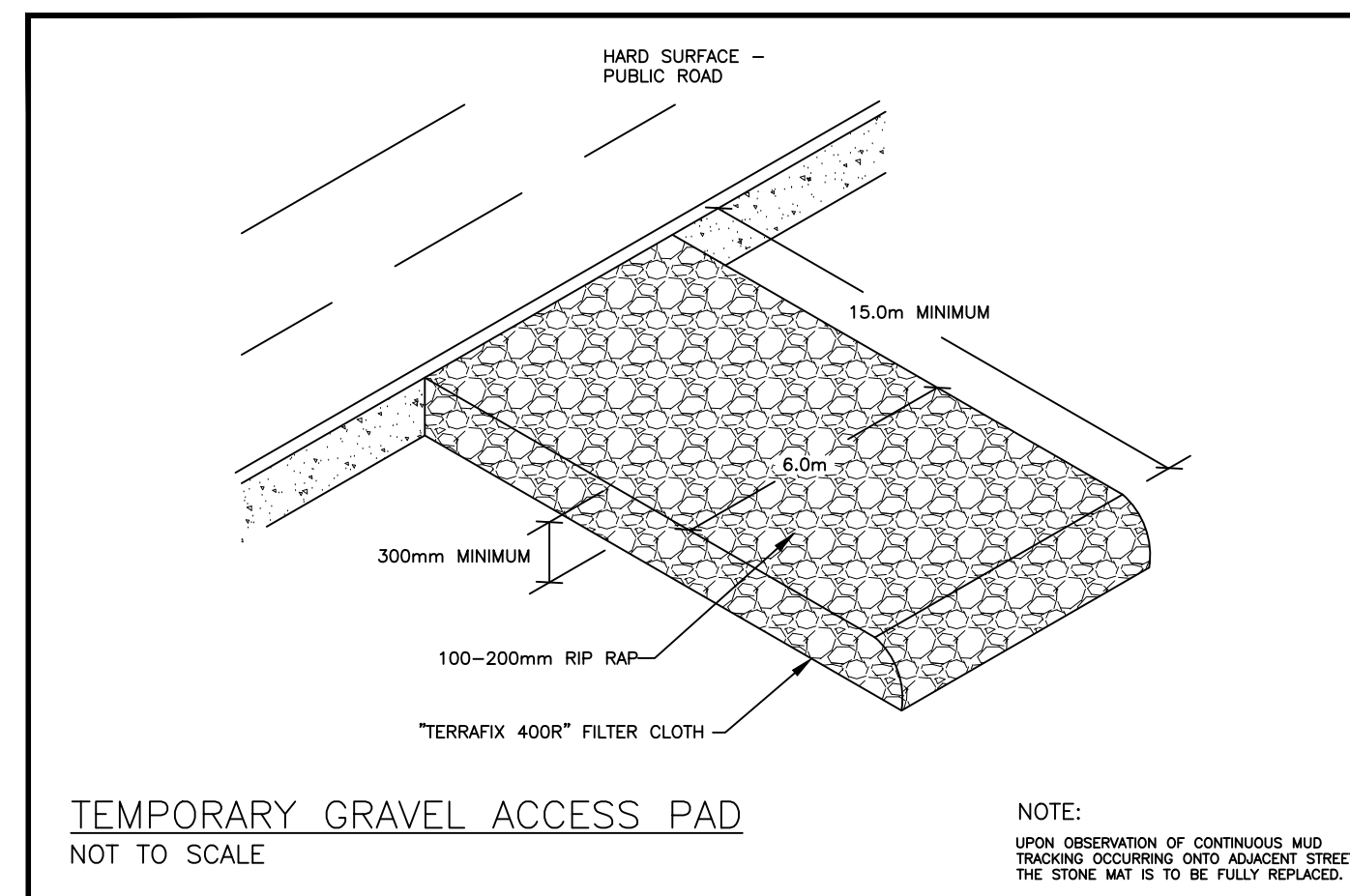
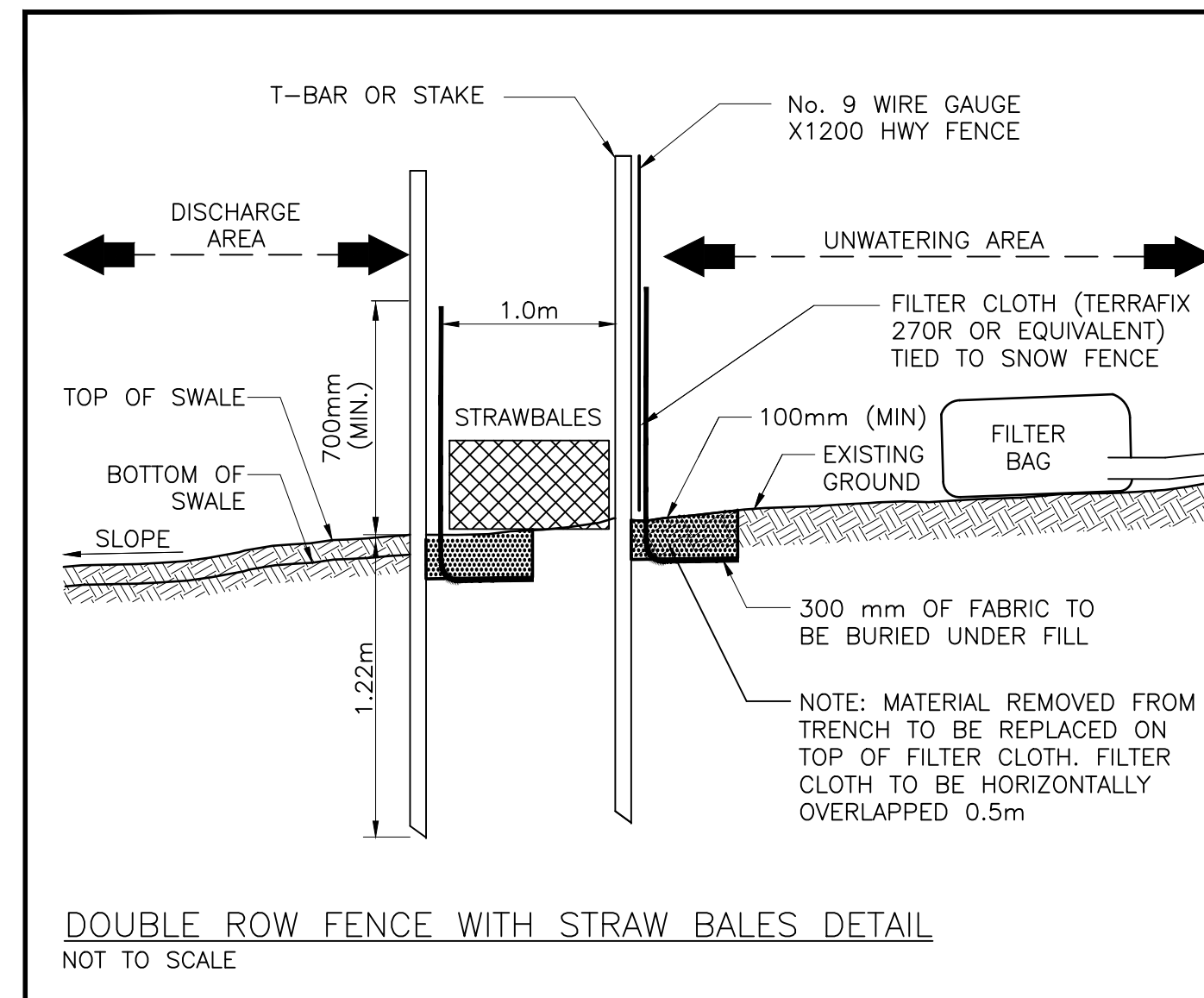
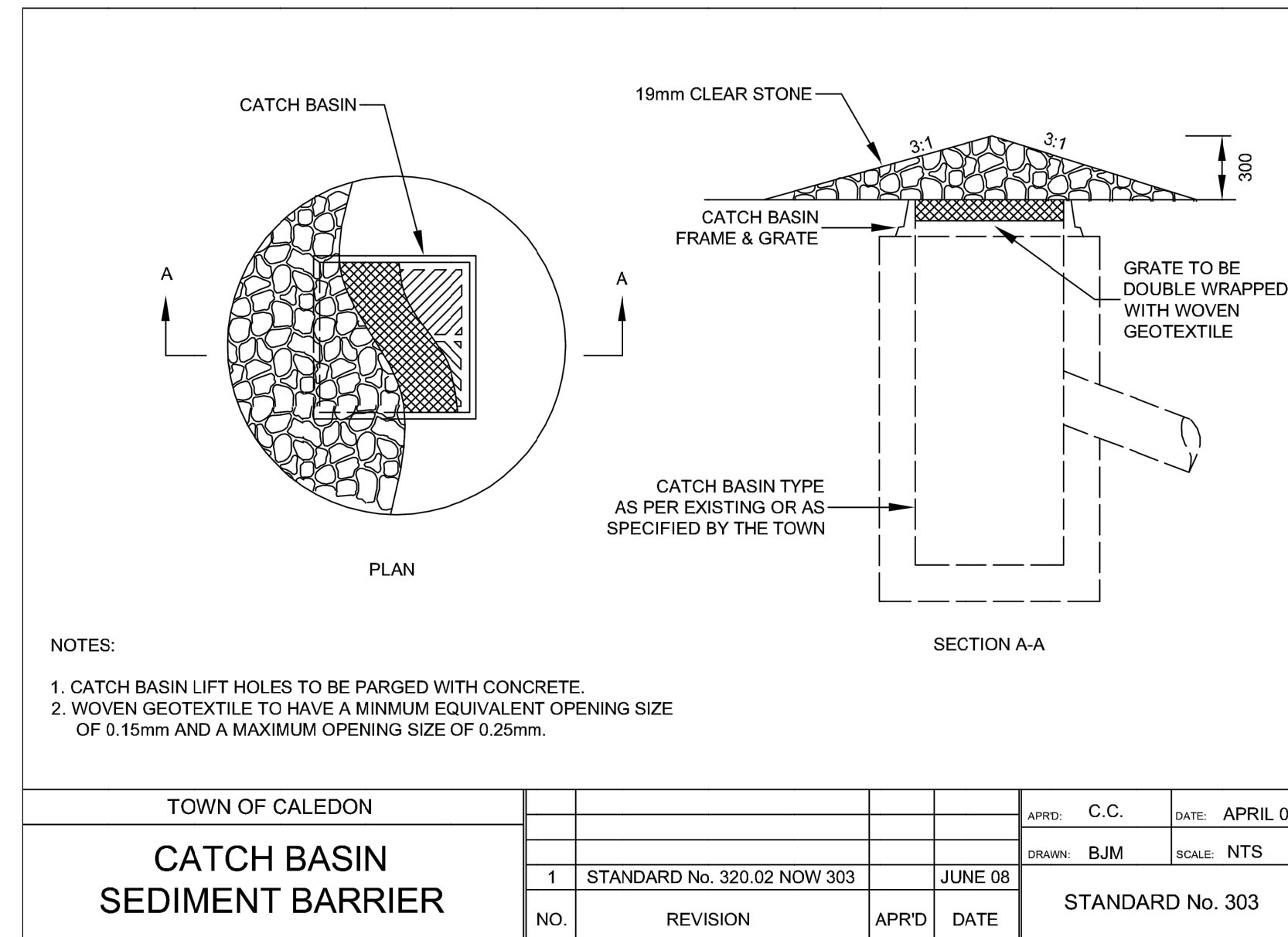
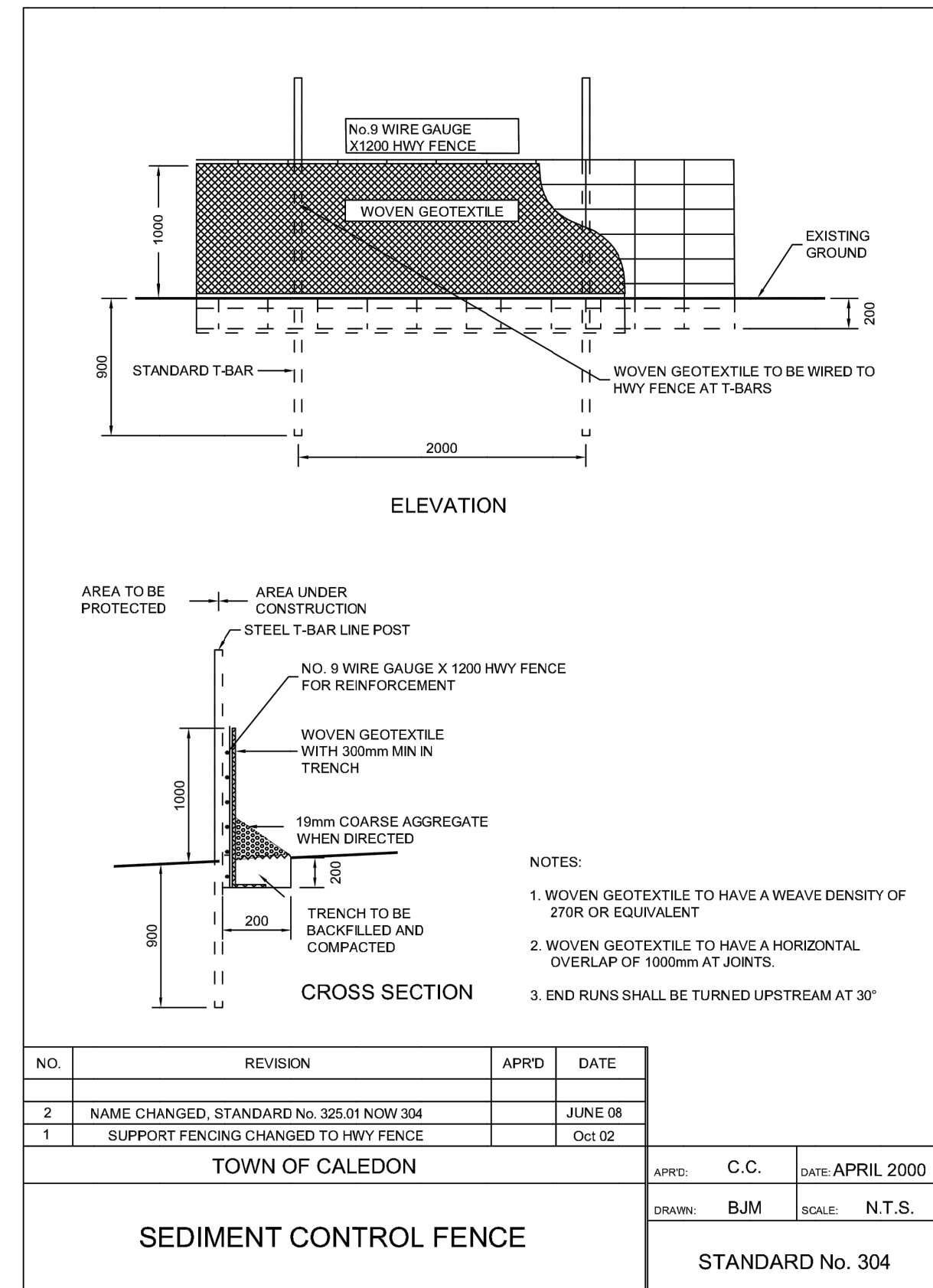
- A SPILL KIT SHALL BE KEPT ON SITE DURING CONSTRUCTION. THE SPILL KIT SHOULD INCLUDE, FOR EXAMPLE, SORBENT MATERIAL (E.G. SORBENT PADS, SORB ALL, VERMICULITE), SHOVEL, PORTABLE BROOMS, GEOTEXTILE FABRIC, SAND BAGS, SEDIMENT FENCING, PLASTIC BAGS, PPE (E.G. GLOVES, BOOTS, RAIN GEAR), BUCKETS, STAKES, TARP/AULINS. IN THE CASE OF A SPILL THE WOECC SHOULD BE CALLED AT 1800-268-6060.
- DEBRIS, INCLUDING LARGE PIECES OF WOOD, GARBAGE, DEBRIS, EXCESS FILL, ETC., RESULTING FROM THE CONSTRUCTION SHALL BE DISPOSED OF AT AN APPROVED SITE(S) WHICH IS OUT OF THE FLOODPLAIN AREA AND ADJACENT SLOPES OR APPROVED LANDFILL SITES.
- AREAS WHERE VEGETATION HAS BEEN REDUCED AS A RESULT OF CONSTRUCTION ACTIVITIES MUST BE REVEGETATED WITH INSUREUS SPECIES AND HYDROSEEDING AS SOON AS BACKFILLING AND COMPACTION IS COMPLETED.
- 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 HYDROSEEDING AGAIN AT THE DISCRETION OF THE COMMISSIONER.

DUST CONTROL MEASURES

- A DUST CONTROL PLAN WILL INCLUDE:
- IDENTIFICATION OF ALL POTENTIAL DUST SOURCES;
 - A DESCRIPTION OF THE DUST CONTROL METHOD(S) TO BE USED FOR EACH SOURCE;
 - 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;
 - PROVISIONS FOR MONITORING AND RECORD KEEPING;
 - A BACKUP PLAN IN CASE THE FIRST CONTROL PLAN DOES NOT WORK OR IS INSUFFICIENT;
- PRE-GRADING PLANNING:**
- TOPSOIL STRIPPING AND EARTHWORKS TO BE TIMED TO COINCIDE WITH EACH MUNICIPAL SERVICING AND/OR CONSTRUCTION PHASE; OR
 - STRIP TOPSOIL AND GRADE ENTIRE PROJECT AND APPLY VEGETATION GROUND COVER TO GRADED OR TOPSOIL STRIPPING AND CONSTRUCTION PHASE BEGINNING MORE THAN 60 DAYS AFTER GRADING OR TOPSOIL STRIPPING OPERATIONS END.
- WATERING (POST-GRADING):**
- 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:**
- CONTINUE LOAD IN/OUT PROCEDURES TO DOWNWIND SIDE OF THE MATERIAL. TOPSOIL PILE TO BE LOCATED DOWNWIND OF EXISTING RESIDENTIAL AREAS.
 - APPLY WATER TO HAIL ROADS AND STOCKPILE BY WAY OF WATER TRUCK.
 - GRADE AND VEGETATE TOPSOIL STOCKPILE TO PREVENT FUTURE WIND EROSION.
- WIND FENCING:**
- 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:**
- 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:**
- 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:**
- 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:**
- 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.



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PROJECT NAME

PROPOSED TOWNHOUSE DEVELOPMENT
CHATEAUX OF CALEDON CORPORATION

Region of Peel

RZ-18-002C, SP-18-002C

TOWN OF CALEDON

EROSION & SEDIMENT CONTROL DETAILS

SCALE : N/A	PROJECT No.
DESIGN BY: JL	160622596
CHECKED BY: SK	DRAWING No.
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