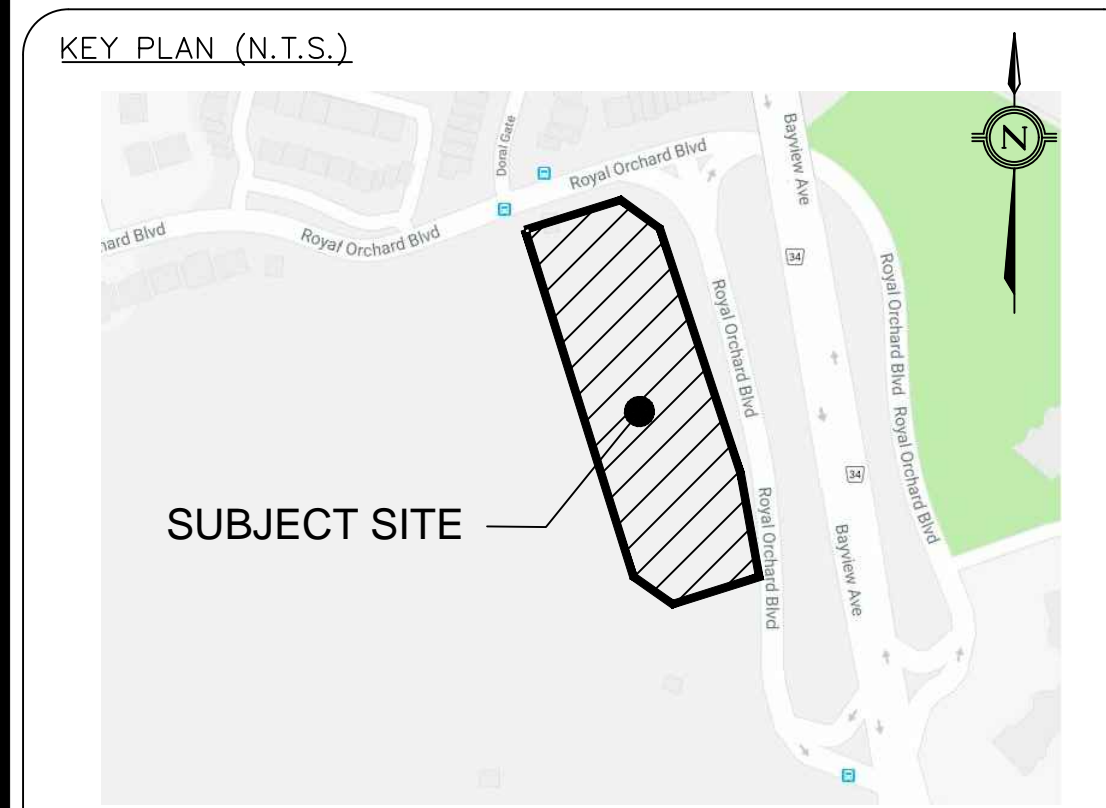
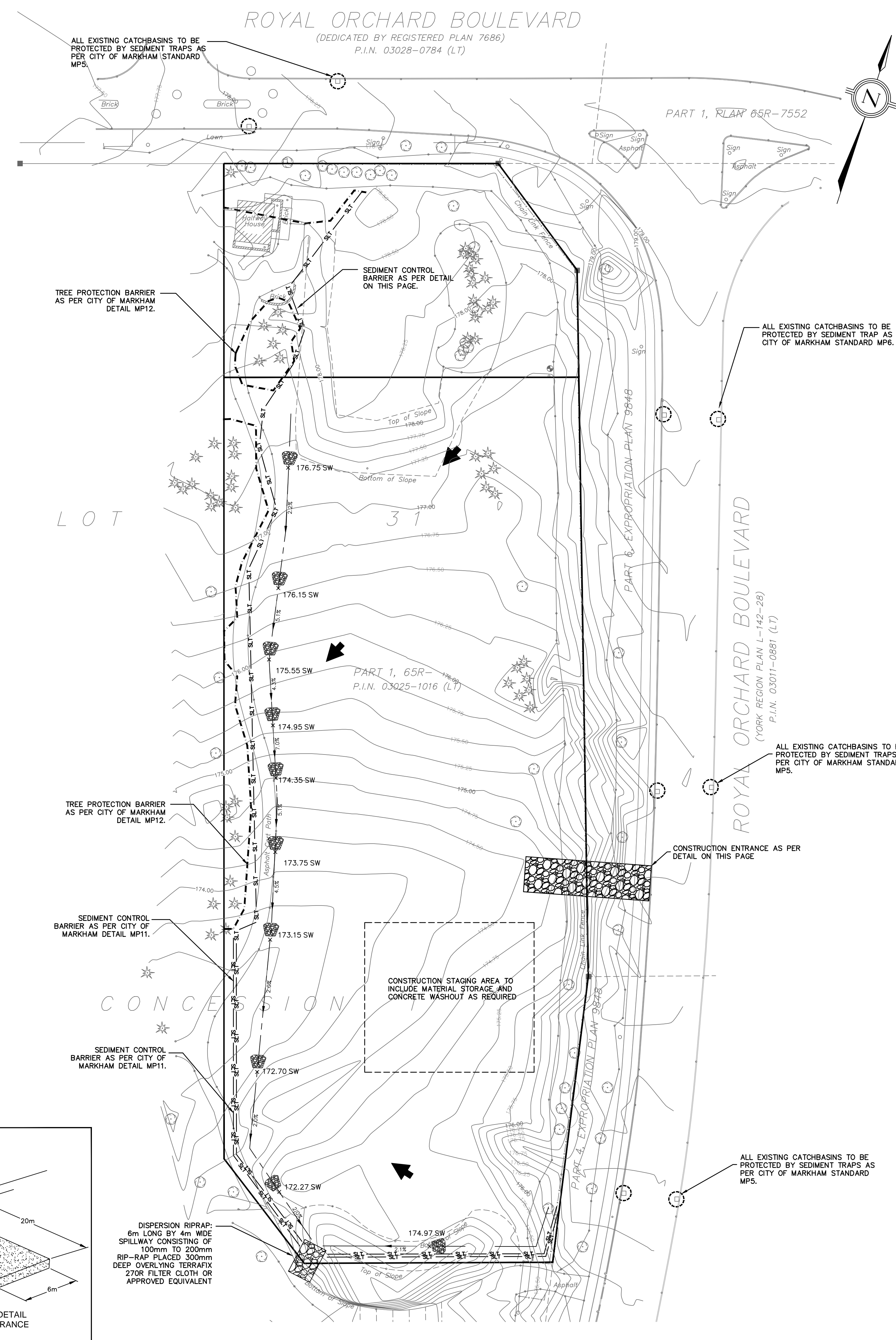
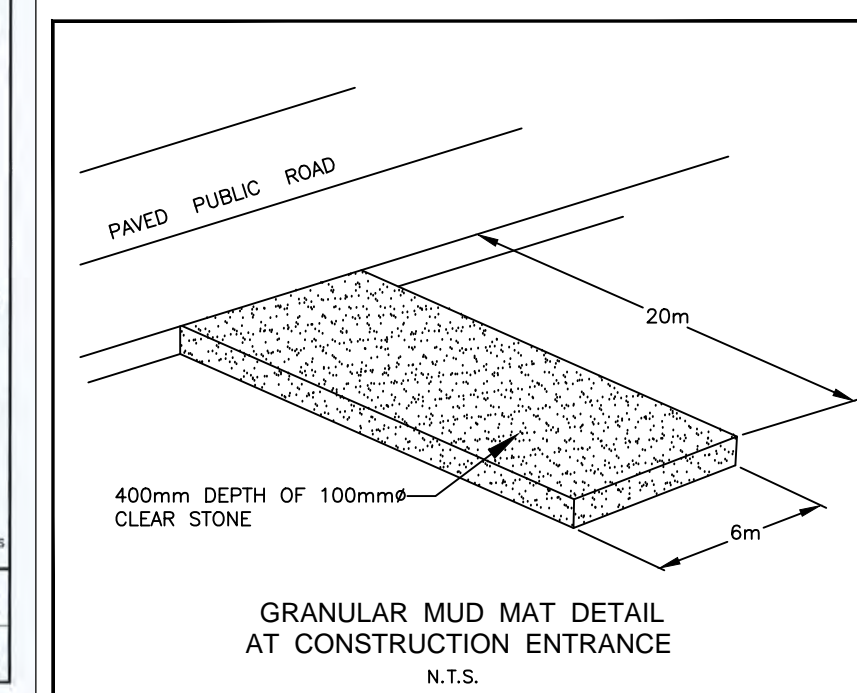
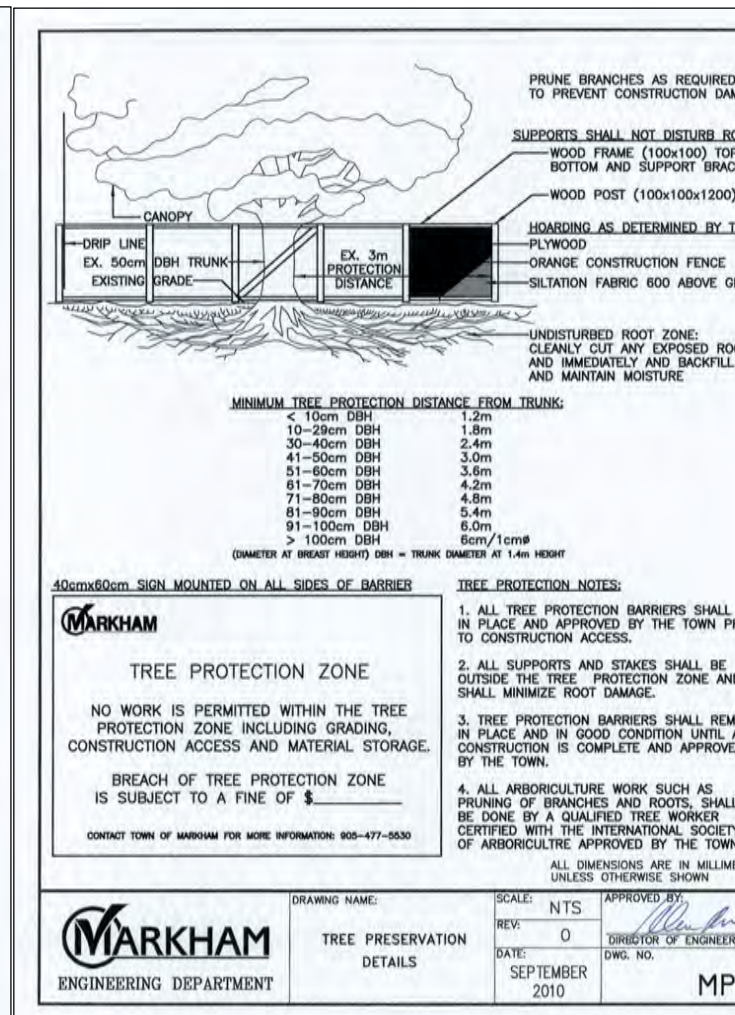
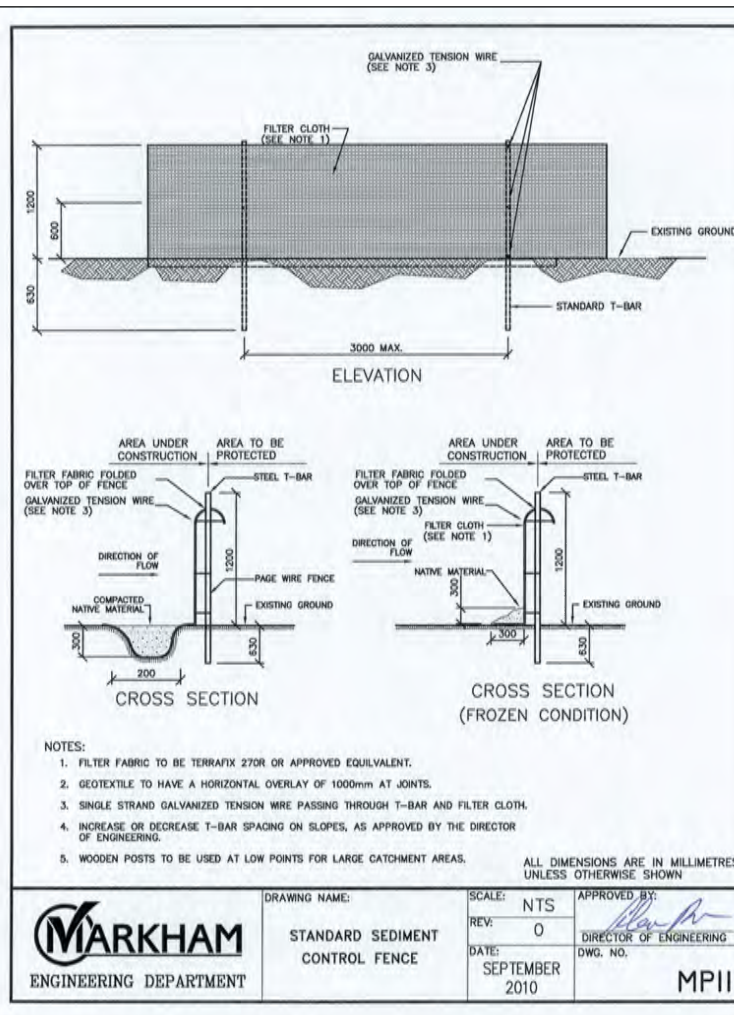
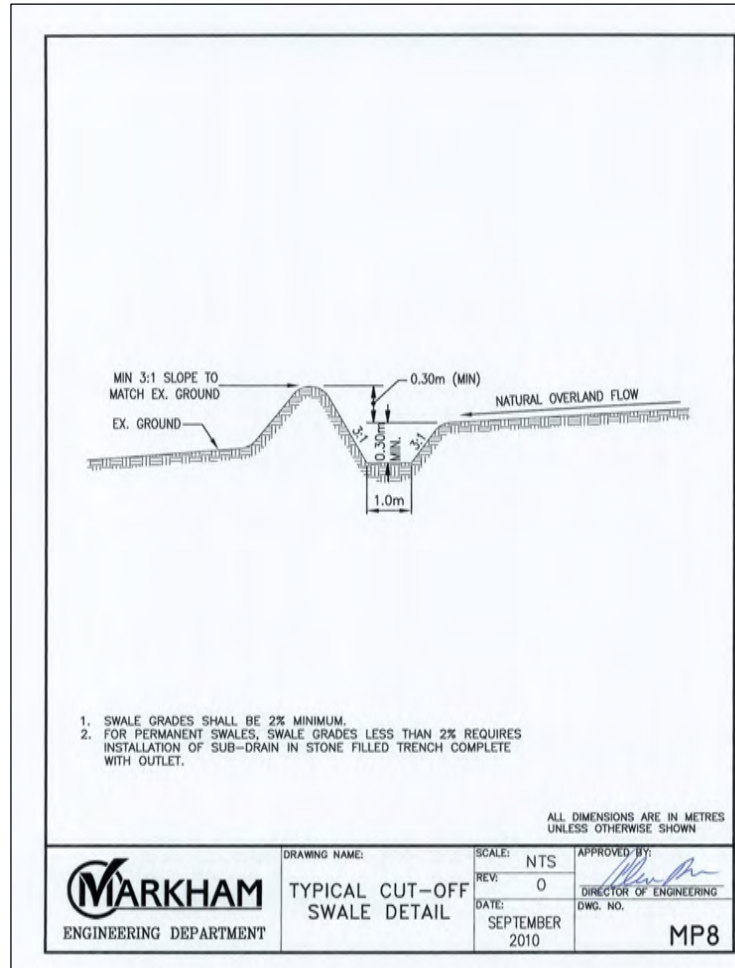
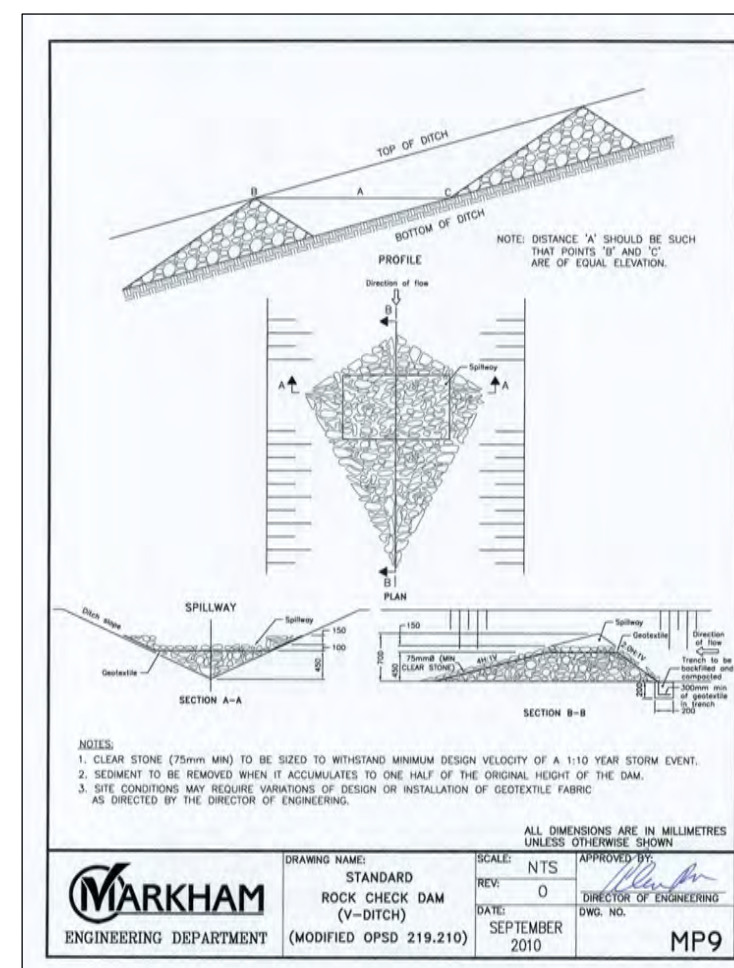
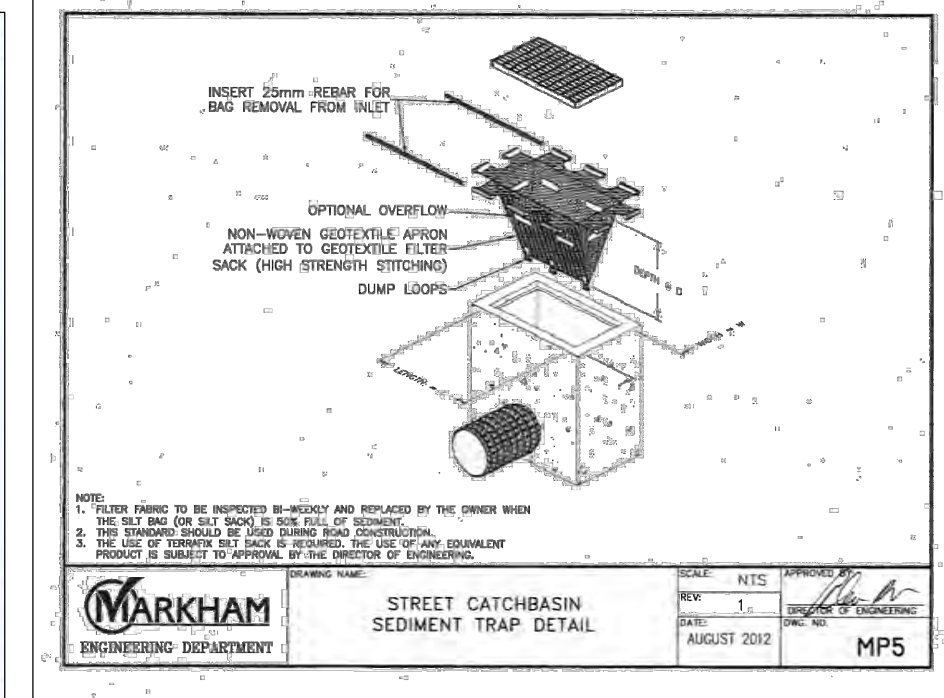
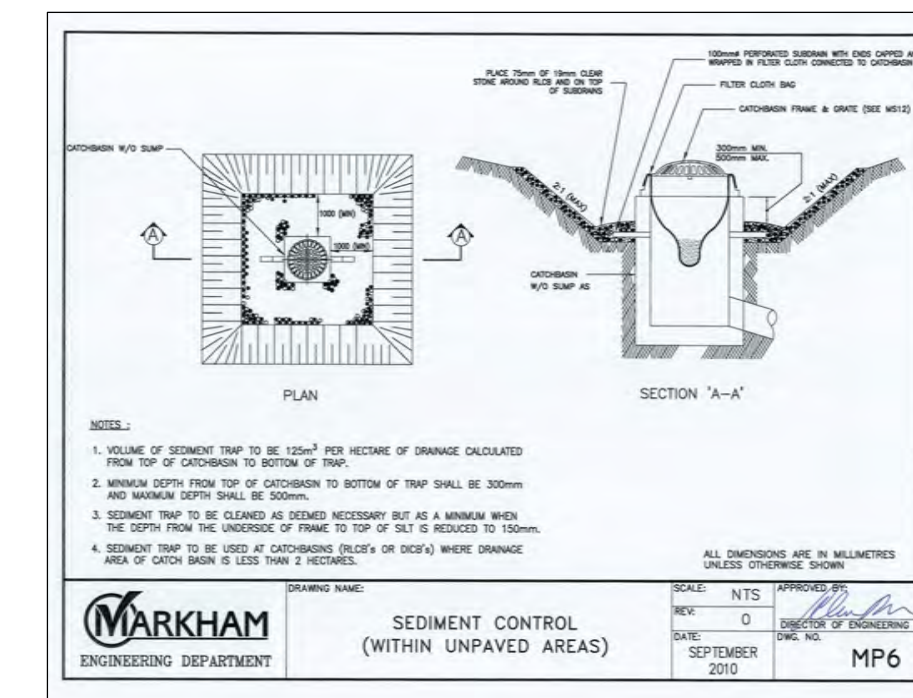


**EROSION AND SEDIMENT CONTROL NOTES**

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING REMOVAL UPON COMPLETION OF THE PROJECT.
- THE LOCATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES ARE SHOWN SCHEMATICALLY.
- MUD MATS, TREE PROTECTION, SILT FENCE AND SEDIMENT TRAPS ON CATCHBASIN STRUCTURES ARE TO BE INSTALLED PRIOR TO STRIPPING TOPSOIL AND TO BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
- GRANULAR DYKES/SILT FENCE BARRIERS TO BE INSTALLED AS REQUIRED AND TO BE MAINTAINED UNTIL ALL CONSTRUCTION IS COMPLETE AND SUB-SURFACES ARE STABILIZED.
- ALL DISTURBED AREAS TO BE REINSTATED WITH MINIMUM 100mm TOPSOIL AND SOD IMMEDIATELY UPON COMPLETION OF WORKS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- DURING GRADING OPERATIONS, ALL STORM RUNOFF SHALL BE CONTROLLED TO PREVENT SURFACE RUNOFF FROM LEAVING THE SITE UNTREATED.
- VEHICLE REFUELING AND SOIL STOCKPILING SHALL BE UNDERTAKEN AWAY FROM ANY VALLEY OR WATERCOURSE.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MATERIALS (i.e. SILT FENCE, STRAW BALES, CLEAR STONE, ETC.) ARE TO BE KEPT ON SITE FOR EMERGENCIES AND REPAIRS.
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONTINUOUSLY EVALUATED AND REPLACED/MAINTAINED AS REQUIRED TO ENSURE THEIR EFFECTIVENESS. THE ESC MEASURES ARE TO BE INSPECTED ON A WEEKLY BASIS, AFTER ANY RAIN OR SNOW MELT EVENT, AND ANY MAINTENANCE/REPAIR/REPLACEMENT REQUIRED IS TO BE DONE WITHIN 48 HOURS. DURING EXTENDED RAIN/SNOWMELT PERIODS, THE ESC MEASURES ARE TO BE INSPECTED DAILY.
- ALL CATCHBASINS/CATCHBASIN MANHOLES ARE TO BE PROTECTED PER DETAIL IMMEDIATELY AFTER INSTALLATION. EXISTING CATCHBASINS/CATCHBASIN MANHOLES ARE TO BE PROTECTED AT START OF CONSTRUCTION. PROTECTION IS TO BE MAINTAINED UNTIL ALL CONSTRUCTION IS COMPLETE.
- ALL TOPSOIL STOCKPILES INTENDED TO REMAIN IN PLACE FOR MORE THAN 30 DAYS ARE REQUIRED TO BE SEEDED TO PREVENT WIND EROSION. HEIGHT OF TOPSOIL STOCKPILES SHOULD NOT EXCEED 2m.
- THE CONTRACTOR SHALL UNDERTAKE MEASURES TO CONTROL DUST DURING CONSTRUCTION, RELATED SOIL EXCAVATION OR DURING SOIL REMEDIATION/EXCAVATION ACTIVITIES, AND SHOULD INCLUDE THE FOLLOWING AS APPLICABLE:
  - DAILY, OR MORE FREQUENTLY IF REQUIRED, WETTING OF ALL SOFT AND HARD SURFACES AND ANY EXCAVATION FACE ON THE SITE, WITH THE ADDITION OF CALCIUM CHLORIDE OR OTHER RECOGNIZED MATERIALS AS A DUST SUPPRESSANT, IF REQUIRED;
  - THE DAILY CLEANING OF THE ROAD PAVEMENT AND SIDEWALKS FOR THE ENTIRE FRONTAGE(S) OF THE PROPERTY TO A DISTANCE OF TWENTY-FIVE (25) METRES FROM THE PROPERTY LINE.
- SINCE THE LOCATION AND TYPE OF EROSION AND SEDIMENT CONTROL MEASURES WILL BE MODIFIED AS THE CONSTRUCTION OF THE SITE PROCEEDS, THIS PLAN IS DYNAMIC AND ADJUSTMENTS TO THE LOCATION AND TYPE OF ESC MEASURES WILL BE UNDERTAKEN AWAY FROM THE SITE AND ONTO ADJACENT AREAS.
- AMOUNT OF BARE SOIL EXPOSED AT ONE TIME IS TO BE MINIMIZED. DISTURBED SOILS ARE TO BE STABILIZED AS QUICKLY AS PRACTICAL. ALL STRIPPED AND BARE SOIL TO BE STABILIZED WITHIN 30 DAYS OF INACTIVITY.
- THE STORM SEWER OUTLET IS TO BE MONITORED CONTINUOUSLY DURING CONSTRUCTION TO ENSURE THAT EROSION IS NOT OCCURRING. SHOULD ANY EROSION BE NOTED, IMMEDIATE ACTION IS TO BE TAKEN TO RECTIFY THE PROBLEM.

**EROSION AND SEDIMENT CONTROL SEQUENCE**

- ALL EXISTING STORM STRUCTURES TO BE PROTECTED AND ALL ON-SITE EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO TOPSOIL STRIPPING AND STOCKPILING.
- ENTRANCE MUD-MAT, SILT FENCE AND TREE PROTECTION FENCING TO BE INSTALLED AND INSPECTED BY CITY INSPECTOR AND COUNTERPOINT ENGINEERING PRIOR TO TOPSOIL STRIPPING AND STOCKPILING.
- INSTALL SWALES, ROCK CHECK DAMS AND ROCK DISPERSION DAM AS SHOWN IN THE DRAWING.
- SITE GRADING AND SERVING TO BE COMPLETED AND ALL NEW STORM INLETS TO BE PROTECTED IMMEDIATELY FOLLOWING INSTALLATION.
- ALL SLOPES TO BE STABILIZED IMMEDIATELY FOLLOWING CONSTRUCTION AND AREA REMAINING UNTOUCHED FOR 30 DAYS TO BE STABILIZED.
- ALL HARD SURFACES, PARKING AND LANDSCAPE AREAS TO BE BROUGHT TO FINAL GRADE AS INDICATED ON THE SITE GRADING PLAN.
- ALL LOW IMPACT DEVELOPMENT MEASURES TO BE PROTECTED TO ENSURE NECESSARY SOIL CHARACTERISTICS
- ONCE ALL SURFACES HAVE BEEN STABILIZED AND INSPECTED SILT FENCE AND INLET PROTECTION CAN BE REMOVED AT THE DIRECTION OF THE CITY AND COUNTERPOINT ENGINEERING.
- FOLLOWING COMPLETION OF CONSTRUCTION AND PLANTING TREE PROTECTION FENCING TO BE REMOVED AT THE DIRECTION OF THE CITY AND COUNTERPOINT ENGINEERING.



**LEGAL & TOPOGRAPHY**  
 PLAN OF SURVEY WITH TOPOGRAPHY OF PART OF LOT 31 CONCESSION 1 (GEOGRAPHIC TOWNSHIP OF MARKHAM) MARKHAM, ONTARIO REGIONAL MUNICIPALITY OF YORK  
 PROVIDED BY: SPEIGHT, VAN NOSTRAND & GIBSON LTD.  
 DATED: APRIL 15, 2017  
**BENCHMARK**  
 ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM THE CITY OF MARKHAM BENCHMARK No. M-02-006.  
 PUBLISHED ELEVATION = 182.407 m

**LEGEND**

	PROPOSED STORM MANHOLE
	PROPOSED CATCH BASIN
	EXISTING STORM MANHOLE
	EXISTING CATCHBASIN
	EXISTING OVERLAND FLOW ROUTE
	SILT FENCE BARRIER
	SEDIMENT TRAP
	GRANULAR MUD MAT
	PROPERTY LINE
	TREE PROTECTION FENCE AS PER CITY STANDARD MP12
	ROCK CHECK DAMS AS PER OPSD 219.210

1.	ISSUED FOR OPA/ZBA 1ST SUBMISSION	MAR 08/2018	BY	CITY
No.	REVISIONS/ISSUED	DATE	BY	CITY

**counterpoint ENGINEERING**  
 COUNTERPOINT ENGINEERING INC.  
 8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

**ENGINEER'S STAMP**  
 LICENSED PROFESSIONAL ENGINEER  
 S. S. YOGANATHAN  
 100100545  
 MAR 08/18  
 PROVINCE OF ONTARIO

APPLICANT:  
**TRIDEL CORPORATION**  
 4800 DUFFERIN STREET  
 TORONTO, ONTARIO

PROJECT:  
 7859 YONGE STREET  
 MARKHAM, ONTARIO

**EROSION AND SEDIMENT CONTROL PLAN**

DESIGNED BY: ES	CHECKED BY: PT	DATE: MARCH 2018
DRAWING BY: ES	CHECKED BY: PT	PROJECT NO. 17086
SCALE: 1:400m	CHECKED BY:	DRAWING NO. ESC-1