

CONSTRUCTION NOTES AND SPECIFICATIONS

1. CITY OF HAMILTON NOTES AND DETAILS

- 1.1. ALL EXISTING UNUSED SEWER DRAINS, SERVING A PROPERTY BEING REDEVELOPED, IN WHOLE OR IN PART, MUST BE REMOVED FROM MUNICIPAL PROPERTY I.E. ROAD ALLOWANCE ETC., WITH AN APPROPRIATE REPAIR TO THE MUNICIPAL SEWER MAIN TO WHICH THEY CONNECT, AND EITHER REMOVED FROM PRIVATE PROPERTY OR ABANDONED IN ACCORDANCE WITH CITY MINIMUM REQUIREMENTS I.E. PLUGGING AT EITHER END WITH A MINIMUM 300mm CONCRETE.
- 1.2. WATERMAIN OR WATER SERVICE LOWERINGS, 100 TO 300mm PIPE, TO BE INSTALLED TO SERVICE DEFLECTIONS, WHERE FEASIBLE, SHOULD BE LESS THAN OR EQUAL TO 50% OF THE VALUES RECOMMENDED BY THE MANUFACTURER, AS PER CITY FORM 400.
- 1.3. PLAN TO BE READ IN CONJUNCTION WITH STORMWATER MANAGEMENT BRIEF BY MTE CONSULTANTS INC. FILE NO. 43629-200.
- 1.4. ALL BACKFLOW PREVENTION DEVICES MUST BE SELECTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE CITY OF HAMILTON'S BACKFLOW PREVENTION BY-LAW # 10-103, INCLUDING THE MANUFACTURER'S SPECIFICATIONS FOR INSTALLATION ETC., AND GUIDELINES SET OUT IN THE MOST RECENT EDITIONS OF THE 'AWWA CANADIAN CROSS CONNECTION CONTROL MANUAL' AND THE 'CSA B84.10/07/B84.10.1-07 STANDARDS', IN SELECTING A BACKFLOW DEVICE FOR A PROPERTY, CONSIDERATION MUST BE GIVEN TO FUTURE POSSIBLE USES OF THE SITE WHICH COULD RESULT IN A HIGHER RISK, TO THE MUNICIPAL DRINKING WATER SYSTEM, THIS MAKING THE DEVICE INITIALLY CHOSEN INADEQUATE FOR THE NEW PURPOSE AND REQUIRING FUTURE CHANGE OUT AT THE OWNER'S EXPENSE.
- 1.5. WATER SERVICE ABANDONMENT
 - 1.5.1. REMOVE CURB STOP
 - 1.5.2. CUT AND CRIMP WATER SERVICE AT THE MAIN.
 - 1.5.3. CLOSE MANHOLE.
 - 1.5.4. FOR WATER SERVICES GREATER THAN 50mm, USING A TEE AND SLEEVE, THE TEE SHALL BE REMOVED AND REPLACED WITH A SECTION OF PIPE AND SLEEVE. THE REPLACEMENT SECTION OF PIPE SHALL BE OF THE SAME MATERIAL AS THE EXISTING MAINLINE WATERMAIN, WHERE A TAPPING VALVE WAS USED THE APPLICANT SHOULD CONTACT THE CITY FOR FURTHER DIRECTION.
- 1.6. ALL EXISTING WATER METERS ON SYSTEMS TO BE ABANDONED MUST BE REMOVED AND SALVAGED BY THE CITY OF HAMILTON. THE SERVING CONTRACTOR SHOULD CONTACT THE WATER AND WASTEWATER SECTION, PUBLIC WORKS DEPARTMENT AT 905 546 4426 TO ARRANGE FOR THE WORK.

2. GENERAL

- 2.1. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE CITY OF HAMILTON.
- 2.2. THESE PLANS ARE TO BE USED FOR SERVING AND GRADING ONLY; ANY OTHER INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THESE PLANS MUST NOT BE USED TO SITE THE PROPOSED BUILDING.
- 2.3. NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.
- 2.4. THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.
- 2.5. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE OWNER'S BONDED CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS NORMALLY REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS, BUT NOT LIMITED TO THE FOLLOWING:
 - 2.5.1. ROAD CUT PERMIT
 - 2.5.2. APPROACH APPROVAL PERMITS
 - 2.5.3. COMMITTEE OF ADJUSTMENT
 - 2.5.4. SEWER PERMITS / WATER PERMITS
 - 2.5.5. RELOCATION OF SERVICES
 - 2.5.6. ENCROACHMENT AGREEMENTS

- 2.6. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
 - 2.6.1. CHECK AND VERIFY ALL EXISTING CONDITIONS, LOCATIONS AND ELEVATIONS WHICH INCLUDES BUT IS NOT LIMITED TO THE BENCHMARK ELEVATIONS, EXISTING SERVICE CONNECTIONS AND EXISTING INVERTS, REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING.
 - 2.6.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
 - 2.6.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
 - 2.6.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
- 2.7. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS.
- 2.8. ALL WORKS ON A MUNICIPAL RIGHT-OF-WAY WILL BE INSTALLED BY THE OWNER'S BONDED CONTRACTOR UPON APPLICATION BY OWNER AT OWNER'S EXPENSE. UNDER THE ROAD CUT PERMIT, THE CONTRACTOR IS TO MAKE CONNECTION TO THE SERVICES AND MAKE AND MAINTAIN THE TEMPORARY REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY CONTRACTOR AT THE OWNER/OWNER'S CONTRACTOR COST. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL BOULEVARD AREAS.

- 2.9. CONSTRUCTION OF SEWERS, WATERMANS AND RELATED APPURTENANCES SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE CITY OF HAMILTON CONSTRUCTION AND MATERIALS SPECIFICATIONS MANUAL (LATEST EDITION), THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), AND MINISTRY OF THE ENVIRONMENT GUIDELINES (LATEST EDITION), THE CITY DRAWINGS SHALL TAKE PRECEDENT OVER THE OPSD DRAWINGS.
- 2.10. ALL SEWERS ARE TO BE INSTALLED WITH A MINIMUM COVER OF 2.20m AT THE PROPERTY LINE BELOW THE FINAL ROAD GRADE OR AT SUCH HIGHER ELEVATION ONLY AS MAY BE NECESSITATED BY THE ELEVATION OF THE MAIN SEWER, ON PRIVATE PROPERTY THE MINIMUM COVER IS TO BE NO LESS THAN 1.2m.
- 2.11. INFORMATION REGARDING ANY EXISTING SERVICES AND/OR UTILITIES SHOWN ON THE APPROVED SET OF CONSTRUCTION DRAWINGS IS FURNISHED AS THE BEST AVAILABLE INFORMATION, THE CONTRACTOR SHALL INTERPRET THIS INFORMATION AS HE SEES FIT WITH THE UNDERSTANDING THAT THE OWNER AND HIS AGENTS DISCLAIM ALL RESPONSIBILITY FOR ITS ACCURACY AND/OR SUFFICIENCY.

- 2.12. NO BLASTING WILL BE PERMITTED.
- 2.13. ALTERNATIVE MATERIALS WILL NOT BE ALLOWED UNLESS FIRST APPROVED IN WRITING BY THE CONSULTANT AND THE CITY OF HAMILTON.
- 2.14. REFER TO GEOTECHNICAL REPORT PREPARED BY SOIL-MAT ENGINEERS & CONSULTANTS LTD. DATED OCTOBER 22, 2014 FOR DETAILS OF ACCEPTABLE BACK FILL MATERIAL.
- 2.15. APPROVED FILL, FREE OF DELETERIOUS AND ORGANIC MATERIAL, AND BOULDERS SHALL BE COMPACTED TO A DRY DENSITY NOT LESS THAN 95% OF THE STANDARD PROCTOR DENSITY. AFTER COMPACTION, SOIL DENSITY TESTS SHALL BE CONDUCTED TO ENSURE ADEQUATE COMPACTION AND STABILITY OF THE FILL AND TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER.

- 2.16. CONTRACTOR IS RESPONSIBLE FOR CONTACTING ENGINEER 48 HRS PRIOR TO COMMENCING WORK TO ARRANGE FOR INSPECTION. ENGINEER TO DETERMINE DEGREE OF INSPECTION AND TESTING REQUIRED FOR CERTIFICATION OF UNDERGROUND SERVICE INSTALLATION AS MANDATED BY ONTARIO BUILDING CODE DIVISION C, PART 1, SECTION 1.2.2. GENERAL REVIEW - FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
- 2.17. PLAN TO BE READ IN CONJUNCTION WITH SWM REPORT PREPARED BY MTE CONSULTANTS INC.
- 2.18. SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY UNTACK ARCHITECTS INC., RECEIVED JUNE 16, 2017.
- 2.19. EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY BARICH GRENKLE SURVEYING LTD. DATED MARCH 2016. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.
- 2.20. RETAINING WALLS TO BE DESIGNED BY OTHERS. FOR WALLS EXCEEDING 1.0m IN HEIGHT, SHOP DRAWINGS MUST BE SUBMITTED FOR REVIEW AND APPROVAL AND BUILDING PERMIT MUST BE OBTAINED. WALLS OVER 0.6m IN HEIGHT REQUIRE GUARDS, HIGH SIDE OF RETAINING WALLS TO BE BACKFILLED WITH FREE DRAINING MATERIAL.

- 2.21. SITE SERVICING CONTRACTOR TO TERMINATE ALL SERVICES 1.0 METRES FROM FOUNDATION WALL.
- 2.22. FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUIVALENT.
- 2.23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNS, DELINEATORS, MARKERS, AND BARRIERS, ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS OF THE THE CITY OF CAMBRIDGE AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 2.24. THE POSITION OF POLE LINES, CONDUITS, WATERMANS, 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.
- 2.25. CONTRACTOR TO MAINTAIN A 'CONFINED TRENCH CONDITION' IN ALL SEWER AND SERVICE TRENCHES.
- 2.26. FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLOUSED, AND ALL CATCHBASIN AND CATCHBASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.
- 2.27. APPROVAL OF THIS DRAWING IS FOR MATERIAL ACCEPTABILITY AND COMPLIANCE WITH MUNICIPAL AND PROVINCIAL SPECIFICATIONS AND STANDARDS ONLY. APPROVAL AND INSPECTION BY THE CITY OF THE WORKS DOES NOT CERTIFY THE LINE AND GRADE OF THE WORKS AND IT IS THE OWNER'S RESPONSIBILITY TO HAVE THEIR ENGINEER CERTIFY THIS ACCORDINGLY.

3. STORM SEWERS

- 3.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 3.2. STORM SEWERS, 150mm AND SMALLER, SHALL BE POLYVINYL CHLORIDE (PVC) PIPE WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS. 150mm DRAINS ARE TO BE PVC PIPE, CSA B182.1 M-1983, SDR28 AS PER FORM 500.
- 3.3. STORM SEWERS 200mm TO 375mm SHALL BE POLYVINYL CHLORIDE (PVC) PIPE WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
- 3.4. FACTORY FABRICATED WYES SHALL BE USED FOR ALL STORM SERVICE CONNECTIONS.
- 3.5. MANHOLES AND MANHOLE CATCHBASINS TO BE 1200mm DIAMETER PRECAST WITH MUNICIPAL AND PROVINCIAL SPECIFICATIONS AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED. (NO SUMPS)
- 3.6. CATCH BASIN MANHOLES & MANHOLES TO BE BENCHED PER OPSD 701.021.
- 3.7. CATCHBASINS TO BE 600mm SQUARE PRECAST AS PER OPSD 705.010. MODIFIED WITH A GOSS TRAP AS PER SEW-304. (GOSS TRAPS ARE NOT REQUIRED ON CB'S WITH GRASSED AREAS).
- 3.8. CATCHBASINS TO HAVE A MINIMUM 600mm DEEP SUMP. WHEN THE STRUCTURE INCLUDES THE INSTALLATION OF A SNOOT (OR APPROVED EQUIVALENT) THE SUMP DEPTH TO BE MIN 2.5 TIMES THE OUTLET PIPE DIAMETER SIZE.
- 3.9. MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
- 3.10. STORM MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE "B" CATCHBASIN AND CATCHBASIN MANHOLE GRATES TO BE PER OPSD 400.100.
- 3.11. STORMCEPTOR MANUFACTURER TO PROVIDE WRITTEN CERTIFICATION OF THE INSTALLATION TO THE ENGINEER AND THE CITY.
- 3.12. UNDER NO CIRCUMSTANCES SHALL THE BUILDING FOUNDATION DRAINS BE CONNECTED VIA GRAVITY TO THE STORM SEWER SYSTEM, ALL KEEPING THE DRAINAGE TO BE PUMPED TO THE STORM SEWER SYSTEM. NO PERMANENT DEWATERING FROM FOUNDATION DRAINS TO THE CITY'S SEWER NETWORK IS PERMITTED. THE UNDERGROUND WALL AND FOUNDATION MUST BE DESIGNED AND CONSTRUCTED TO BE 100% SEALED AND LEAK-PROOF.
- 3.13. STORM SEWERS TO HAVE MINIMUM 1.2m COVER TO TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL PROVIDE INSULATION IN ACCORDANCE WITH THE "SEWER PIPE INSULATION DETAIL" ON THIS SHEET.
- 3.14. CONTRACTOR TO CLEAN AND FLUSH ALL SEWER PIPES, STORM WATER QUALITY DEVICES (OIL/GRIT SEPARATOR UNITS), MANHOLES, CATCHBASINS, AND DITCH INLETS IN ACCORDANCE WITH CITY STANDARDS. ADDITIONALLY, THE CONTRACTOR IS TO PROVIDE MTE CONSULTANTS INC. A COPY OF THE SERVICE COMPANY'S PAID INVOICE FOR THE CLEAN-OUT WORK FOR REVIEW AND SUBMISSION TO THE CITY OF HAMILTON.
- 3.15. UPON COMPLETION OF THE CLEANING AND FLUSHING ACTIVITIES, THE CONTRACTOR IS REQUIRED TO COMPLETE CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION IN ACCORDANCE WITH OPS 410. CONTRACTOR TO SUPPLY MTE CONSULTANTS INC. WITH CCTV VIDEOS IN DVD/CD FORMAT FOR REVIEW AND SUBMISSION TO THE CITY OF HAMILTON.
- 3.16. CONTRACTOR IS REQUIRED TO COMPLETE MANDREL TESTING FOR SEWER PIPE DEFLECTION IN ACCORDANCE WITH OPS 410. ADDITIONALLY, THE CONTRACTOR IS TO PROVIDE MTE CONSULTANTS INC. WITH A COPY OF THE COMPLETED FORM OF THE MANDREL TEST FOR SUBMISSION TO THE CITY OF HAMILTON.
- 3.17. ALL AREA DRAINS LOCATED IN PEDESTRIAN HARDSCAPE AREAS SHALL BE 300mm (12") DUCTILE IRON FRAME & GRATE RATED FOR H10 LOADING. AREA DRAINS LOCATED IN VEHICULAR DRAINING AREAS SHALL BE 375mm (15") DUCTILE IRON FRAME & GRATE FOR H20 LOADING. PRODUCT TO BE NYLOPLAST OR APPROVED EQUIVALENT. CONTRACTOR TO PROVIDE SHOP DRAWINGS.

- 4. SANITARY SEWERS
 - 4.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSD 802.030. PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSD 802.010. BEDDING MATERIAL AND COVER MATERIAL TO BE GRAN. "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
 - 4.2. SANITARY SEWERS 150mm AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS. 150mm DRAINS ARE TO BE PVC PIPE, CSA B182.1 M-1983, SDR28 AS PER FORM 500.
 - 4.3. SANITARY SEWERS GREATER THAN 150mm SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR35 ASTM-D3034 CERTIFIED TO CSA B182.2 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
 - 4.4. MANHOLES TO BE 1200mm DIAMETER PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010.
 - 4.5. MANHOLES TO BE BENCHED PER OPSD 701.021.
 - 4.6. SANITARY MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE "A"
 - 4.7. MANHOLE FRAMES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
 - 4.8. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SANITARY SERVICE CONNECTIONS.
 - 4.9. SANITARY SEWERS AND SERVICES TO HAVE MINIMUM 1.2m COVER TO TOP OF PIPE.
 - 4.10. CONTRACTOR TO CLEAN AND FLUSH ALL SEWER PIPES AND MANHOLES IN ACCORDANCE WITH CITY STANDARDS. ADDITIONALLY, THE CONTRACTOR IS TO PROVIDE MTE CONSULTANTS INC. A COPY OF THE SERVICE COMPANY'S PAID INVOICE FOR THE CLEAN-OUT WORK FOR REVIEW AND SUBMISSION TO THE CITY OF HAMILTON.
 - 4.11. UPON COMPLETION OF THE CLEANING AND FLUSHING ACTIVITIES, THE CONTRACTOR IS REQUIRED TO COMPLETE CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION IN ACCORDANCE WITH OPS 409. CONTRACTOR TO SUPPLY MTE CONSULTANTS INC. WITH CCTV VIDEOS IN DVD/CD FORMAT FOR REVIEW AND SUBMISSION TO THE CITY OF HAMILTON.

- 4.12. CONTRACTOR IS REQUIRED TO COMPLETE MANDREL TESTING FOR SEWER PIPE DEFLECTION IN ACCORDANCE WITH OPS 410. ADDITIONALLY, THE CONTRACTOR IS TO PROVIDE MTE CONSULTANTS INC. WITH A COPY OF THE COMPLETED FORM OF THE MANDREL TEST FOR SUBMISSION TO THE CITY OF HAMILTON.
- 4.13. UNUSED MAINTENANCE HOLES AND CATCH BASINS MUST BE COMPLETELY REMOVED.
- 4.14. OPENING IN MAINTENANCE HOLES WHERE SERVICES WERE REMOVED MUST BE BRICKED, FARGED AND SEALED.
- 4.15. EROSION AND SEDIMENT CONTROL
 - 4.15.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN THROUGHOUT CONSTRUCTION. CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN, ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.
 - 4.15.2. ALL EROSION AND SEDIMENT CONTROL MEASURES (TEMPORARY SEDIMENT CONTROL FENCES, STORM SEWER BULKHEADS, ROCK CHECK DAMS, WORK LIMIT FENCES, SEDIMENT BASINS, ETC.) MUST BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - 4.15.3. TEMPORARY VEHICLE TRACKING CONTROLS TO BE CONSTRUCTED AS PER REQUIREMENTS IN 'EROSION & SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION' DATED DECEMBER 2006. AT ALL ACCESS POINTS, CONTRACTOR SHALL MAINTAIN THESE AS REQUIRED AND AS DIRECTED BY THE CITY ENGINEER.
 - 4.15.4. OVERLAND SHEET FLOW EROSION PROTECTION SHALL BE AS PER OPSD 219.130. IF EXCESSIVE SEDIMENT BUILDUP/ BLOCKAGE OCCURS (VISUAL INSPECTION) THEN REPLACEMENT OF THE FILTER CLOTH IS REQUIRED.
 - 4.15.5. CATCH BASIN SEDIMENT CONTROL DEVICE, I.E. "SILTSACK" BY ACF ENVIRONMENT OR APPROVED EQUIVALENT, TO BE PLACED AS PER MANUFACTURER'S RECOMMENDATIONS (SEE DETAIL). REGULAR MAINTENANCE IS REQUIRED ("SILTSACK" SUMPS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND FILTER CLOTH BLOCKAGE ON A WEEKLY BASIS). THESE SEDIMENT TRAPS ARE NOT TO BE REMOVED UNTIL THE CURBS AND THE BOULEVARDES SODDED. SEDIMENT TRAPS SHALL ALSO BE PLACED AS PER DETAIL AT ALL CATCH BASIN LOCATIONS IN AREAS TO BE VEGETATED AND MAINTAINED UNTIL GROUND COVER IS ESTABLISHED.
 - 4.15.6. ALL SILT FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.
 - 4.15.7. MUD MATS TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. MUD MATS SHALL BE A MINIMUM OF 3.0m WIDE, 15.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.
 - 4.15.8. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL MEASURES AS PER CITY OF HAMILTON. THESE MEASURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.
 - 4.15.9. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE CITY OF HAMILTON DEPARTMENT OF PUBLIC WORKS.
 - 4.15.10. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
 - 4.15.11. ALL DISTURBED AREAS NOT SCHEDULED FOR FURTHER CONSTRUCTION WITHIN 45 DAYS WILL BE PROVIDED WITH A SUITABLE TEMPORARY MULCH AND SEED COVER WITHIN 7 DAYS OF THE COMPLETION OF THAT PARTICULAR PHASE OF CONSTRUCTION.
 - 4.15.12. ALL DISTURBED EXTERNAL AREAS SHALL BE REVEGETATED WITH PERMANENT COVER (AS DETAILED) WITHIN 7 DAYS OF THE COMPLETION OF THAT PARTICULAR PHASE OF CONSTRUCTION.
 - 4.15.13. ADDITIONAL EROSION AND SEDIMENT CONTROL LOCATIONS/ MEASURES MAY BE REQUIRED AS DETERMINED BY THE CITY/CONSERVATION AUTHORITY

- 4.16. MAINTENANCE RECOMMENDATIONS
 - 4.16.1. REMOVE SEDIMENT AND CONTAMINANTS ANNUALLY AND REINSTATE STORM WATER MANAGEMENT FACILITY ACCORDING TO THE DESIGN OUTLINED ON THIS PLAN.
 - 4.16.2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE VISUALLY INSPECTED AFTER EACH WORKING DAY AND MAINTAINED WHEN REQUIRED AS DIRECTED BY THE CONSULTANT AND TO THE SATISFACTION OF THE CITY/CONSERVATION AUTHORITY. THE CONSULTANT SHALL KEEP A DAILY RECORD OF INSPECTION, MAINTENANCE, ETC. AND PRESENT THE CITY WITH A COPY OF REPORT ON A MONTHLY BASIS.
 - 4.16.3. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.
 - 4.16.4. THE PROPOSED STORMCEPTOR(S) AND STORAGE TANK WILL REQUIRE REGULAR ANNUAL MAINTENANCE. OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A SUITABLE CONTRACTOR TO COMPLETE THIS WORK.
 - 4.16.5. PROPOSED SNOOT(S) (IF REQUIRED) WILL REQUIRE REGULAR MAINTENANCE DURING AND AFTER CONSTRUCTION IN ACCORDANCE WITH THE MAINTENANCE RECOMMENDATIONS OUTLINED IN SNOOT BEST MANAGEMENT PRODUCTS INC. DOCUMENT. THIS INCLUDES BUT IS NOT LIMITED TO REMOVAL OF SEDIMENT FROM THE SUMP; REMOVAL OF FLOATABLES AND TRASH AND ANNUAL INSPECTION OF THE ANTI-SIPHON VENT, ACCESS HATCH AND TRASH SCREEN. OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A SUITABLE CONTRACTOR TO COMPLETE THIS WORK.

- 4.17. ANY CHANGES IN GRADES AND CATCH BASINS REQUIRING THE APPROVAL OF THE DIRECTOR OF DEVELOPMENT ENGINEERING, PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT.
- 4.18. FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUIVALENT.
- 4.19. MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
- 4.20. MINIMUM ASPHALT GRADE TO BE 1.0%, MINIMUM GUTTERLINE GRADE TO BE 0.5%.
- 4.21. CONTRACTOR TO MATCH EXISTING GRADES AT PROPERTY LINE UNLESS OTHERWISE NOTED.
- 4.22. ALL DRIVEWAYS FROM PROPERTY LINES FOR THE FIRST 7.5m SHALL BE WITHIN 5% MAX. GRADE. THEREAFTER, ALL DRIVEWAYS SHALL BE WITHIN 10% MAXIMUM GRADES.
- 4.23. PRIOR TO REMOVING ANY EXCESS SOILS FROM THE SITE, CONTRACTOR TO CONTACT THE ARCHITECT FOR DIRECTION ON CREATING EARTHEN BERMS ON-SITE.
- 4.24. ALL LANDSCAPED AREAS ARE TO HAVE A MINIMUM 2.0% SLOPE.

7. RESTORATIONS

- 7.1. ALL RESTORATIONS TO CONFORM TO HAMILTON FORM 300.30.
- 7.2. RESTORATIONS OF ROAD OVER UTILITY CUTS IN HAMILTON TO BE AS PER STANDARD DRAWINGS RD-100.01 AND RD-100.02, WITH GRANULAR "A" BEDDING. THE CONTRACTOR MUST BE BONDED WITH THE CITY OF HAMILTON AND MAKE AND MAINTAIN THE TEMPORARY ROAD REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY CONTRACTOR AT THE OWNER/OWNER'S CONTRACTOR COST.
- 7.3. ALL BOULEVARDS TO BE RESTORED WITH #1 NURSERY SOO ON A MINIMUM 150mm OF SELECT TOPSOIL.
- 7.4. CONTRACTOR SHALL COORDINATE THE REMOVAL AND REINSTALLATION OF EXISTING PARKING METERS AND/OR STREET SIGNS WITH THE CITY OF HAMILTON TRAFFIC DEPARTMENT.
- 7.5. ALL FENCES AFFECTED BY CONSTRUCTION SHALL BE REMOVED, TEMPORARILY RELOCATED AND/OR STOCKPILED IF APPROVED BY THE ENGINEER, AND REINSTATED UPON COMPLETION OF CONSTRUCTION.

8. SEWER ABANDONMENT NOTES

- 8.1. ALL EXISTING UNUSED SEWERS MUST BE PROPERLY ABANDONED, BY EITHER COMPLETELY REMOVING THOSE FROM THE LAND, OR BY GROUTING EITHER END OF THE SEWER WITH A MINIMUM 300mm THICK CONCRETE PLUG.

- 8.2. UNUSED MAINTENANCE HOLES AND CATCH BASINS MUST BE COMPLETELY REMOVED.
- 8.3. OPENING IN MAINTENANCE HOLES WHERE SERVICES WERE REMOVED MUST BE BRICKED, FARGED AND SEALED.

5. WATERMANS

- 5.1. PIPE BEDDING AND COVER MATERIAL FOR WATERMANS AND SERVICES TO BE INSTALLED TO CONFORM TO THE CITY OF HAMILTON STANDARD DRAWING No. WM-200.01 (CONCRETE AND PVC), AND WM-200.02 (DUCTILE IRON). BOTH BEDDING AND COVER MATERIAL TO BE GRAN. "A" FOR WATERMANS AND SERVICES GREATER THAN 50mm AND GRANULAR "B" FOR SERVICES 50mm AND SMALLER. TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
- 5.2. ALL MATERIALS AND CONSTRUCTION METHODS MUST CORRESPOND TO THE CURRENT CITY OF HAMILTON STANDARDS AND THE MINISTRY OF THE ENVIRONMENT GUIDELINES (LATEST EDITION).
- 5.3. FOR SERVICES GREATER THAN 50mm, THE PROPOSED WATER SERVICE BOTH WITHIN THE ROAD ALLOWANCE AND ON PRIVATE PROPERTY SHOULD BE PVC RATED AT MINIMUM WORKING PRESSURE OF 150 PSI (DR18). SERVICES 50mm AND LESS MUST BE COPPER WITHIN THE ROAD ALLOWANCE, HOWEVER, PVP OR AN ALTERNATE MATERIAL APPROVED FOR USE UNDER THE ONTARIO BUILDING CODE MAY BE USED ON PRIVATE PROPERTY.
- 5.4. PVC WATER MAIN/SERVICE MATERIAL, CATHODIC PROTECTION, TRACER WIRE ETC. MUST BE AS PER FORM 400.
- 5.5. MAIN STOPS, CURB STOPS AND COUPLINGS SHALL BE AWWA C-800 COPPER TO COPPER FLANGED OR COMPRESSION CONNECTION OR APPROVED EQUIVALENT. ALL VALVES ARE TO BE PER WM-202.
- 5.6. ALL WATERMAIN & SERVICES TO HAVE MINIMUM 1.6m COVER TO TOP OF PIPE. A MINIMUM HORIZONTAL SEPARATION OF 2.5m IS TO BE MAINTAINED BETWEEN SEWERS AND WATERMAIN, WHERE A WATER SERVICE PASSES OVER A SEWER A MINIMUM 0.15m OF VERTICAL SEPARATION MUST BE PROVIDED, WITH A MINIMUM 0.50m BEING PROVIDED WHERE A WATER SERVICE PASSES UNDER A SEWER.
- 5.7. CITY OF HAMILTON TO SUPPLY AND INSTALL WATER METER BY APPOINTMENT UNDER THE WATER METER PERMIT. CONTRACTOR TO INSTALL METER SPACER (OBTAINED FROM CITY). ALL VALVES, PIPING AND REMOTE METER READOUT AT LOCATION ON BUILDING EXTERIOR ACCEPTABLE TO MUNICIPALITY. INTERNAL METERS TO BE INSTALLED AT FLOOR GRADE AS PER WM-210.
- 5.8. AS A FIRE SERVICE IS PROPOSED TO THE BUILDING, A BACKFLOW PREVENTOR MAY BE REQUIRED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. IF A BACKFLOW PREVENTOR IS REQUIRED IT MUST BE LOCATED AT THE SERVICE POINT OF ENTRY TO THE BUILDING.
- 5.9. ALL WATERMAIN TO BE PRESSURE TESTED IN ACCORDANCE WITH OPS 444 AND WITH MUNICIPAL AND PROVINCIAL SPECIFICATIONS AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED. (NO SUMPS)
- 5.10. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEM.

- 5.10.1. WATERMAIN SHUTDOWN
- 5.10.2. MAXIMUM 4 HOUR SHUTDOWN OF EXISTING MAIN AT A TIME CONVENIENT TO THE CITY OF HAMILTON AND ABUTTING USERS.
- 5.10.3. CONTRACTOR TO GIVE 48 HOUR PRIOR NOTIFICATION USING THE "CITY OF HAMILTON NOTICE OF SHUTDOWN" FOR ALL AFFECTED AREAS.
- 5.10.4. IN THE EVENT A SCHEDULED SHUTDOWN IS CANCELLED BY THE CITY OF HAMILTON, THE CONTRACTOR SHALL HAVE NO CLAIMS AGAINST THE CITY.
- 5.11. ANCHOR OR THRUST BLOCKS ARE TO BE INSTALLED AT ALL WATER SERVICE ELBOWS, TEES, PLUGS ETC. FOR 300mm DIAMETER WATER SERVICES AND SMALLER. ANCHOR BLOCKS ARE TO BE AS PER WM-204.01. FOR WATER SERVICES GREATER THAN 300mm, ANCHOR BLOCKS ARE TO BE AS PER WM-204.02 TO WM-204.13 AS APPLICABLE.
- 5.12. PVC WATERMAIN SHALL HAVE TWO STRANDED COPPER, AWG# TRACER WIRE STRAPPED TO TOP AT 5 METRE INTERVALS. TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT ALL HYDRANTS AND CAD WELDED TO THE LOWER FLANGE OF THE HYDRANT. CATHODIC PROTECTION TO BE PROVIDED FOR ALL PVC WATER SERVICE AND MAIN INSTALLATION IN ACCORDANCE WITH CITY OF HAMILTON STANDARD FORM 400.
- 5.13. SERVICE BOXES TO BE MUELLER H-10300 SERIES, CLOW D' SERIES COMPLETE WITH ROD AND PLUG OR EQUIVALENT AS PER THE APPROVED WATERMAIN PRODUCTS LIST, CITY OF HAMILTON CONSTRUCTION AND MATERIAL SPECIFICATIONS MANUAL.
- 5.14. ALL CHECK VALVES TO BE CRANE SERIES 125, MODEL No. 373 (DIRECT BURY TYPE) OR APPROVED EQUIVALENT.
- 5.15. ALL UNUSED WATER SERVICES ARE TO BE PROPERLY ABANDONED.
- 5.16. IF THE EXISTING WATER SERVICE TO BE ABANDONED IS GREATER THAN 50mm, THE CONNECTION POINT AT THE MUNICIPAL WATERMAIN I.E. IN THE CASE OF A TAPPING VALVE ETC., MUST BE COMPLETELY REMOVED WITH A REPAIR TO THE MAIN AS PER MUNICIPAL STANDARDS.
- 5.17. ALL WATER VALVES ARE TO BE PER CITY OF HAMILTON STANDARD WM-202.

6. GRADING NOTES

- 6.1. ANY CHANGES IN GRADES AND CATCH BASINS REQUIRING THE APPROVAL OF THE DIRECTOR OF DEVELOPMENT ENGINEERING, PLANNING AND ECONOMIC DEVELOPMENT DEPARTMENT.
- 6.2. FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUIVALENT.
- 6.3. MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
- 6.4. MINIMUM ASPHALT GRADE TO BE 1.0%, MINIMUM GUTTERLINE GRADE TO BE 0.5%.
- 6.5. CONTRACTOR TO MATCH EXISTING GRADES AT PROPERTY LINE UNLESS OTHERWISE NOTED.
- 6.6. ALL DRIVEWAYS FROM PROPERTY LINES FOR THE FIRST 7.5m SHALL BE WITHIN 5% MAX. GRADE. THEREAFTER, ALL DRIVEWAYS SHALL BE WITHIN 10% MAXIMUM GRADES.
- 6.7. PRIOR TO REMOVING ANY EXCESS SOILS FROM THE SITE, CONTRACTOR TO CONTACT THE ARCHITECT FOR DIRECTION ON CREATING EARTHEN BERMS ON-SITE.
- 6.8. ALL LANDSCAPED AREAS ARE TO HAVE A MINIMUM 2.0% SLOPE.

7. RESTORATIONS

- 7.1. ALL RESTORATIONS TO CONFORM TO HAMILTON FORM 300.30.
- 7.2. RESTORATIONS OF ROAD OVER UTILITY CUTS IN HAMILTON TO BE AS PER STANDARD DRAWINGS RD-100.01 AND RD-100.02, WITH GRANULAR "A" BEDDING. THE CONTRACTOR MUST BE BONDED WITH THE CITY OF HAMILTON AND MAKE AND MAINTAIN THE TEMPORARY ROAD REPAIR OVER THE CUT, WITH PERMANENT REPAIR BEING MADE BY THE CITY CONTRACTOR AT THE OWNER/OWNER'S CONTRACTOR COST.
- 7.3. ALL BOULEVARDS TO BE RESTORED WITH #1 NURSERY SOO ON A MINIMUM 150mm OF SELECT TOPSOIL.
- 7.4. CONTRACTOR SHALL COORDINATE THE REMOVAL AND REINSTALLATION OF EXISTING PARKING METERS AND/OR STREET SIGNS WITH THE CITY OF HAMILTON TRAFFIC DEPARTMENT.
- 7.5. ALL FENCES AFFECTED BY CONSTRUCTION SHALL BE REMOVED, TEMPORARILY RELOCATED AND/OR STOCKPILED IF APPROVED BY THE ENGINEER, AND REINSTATED UPON COMPLETION OF CONSTRUCTION.

8. SEWER ABANDONMENT NOTES

- 8.1. ALL EXISTING UNUSED SEWERS MUST BE PROPERLY ABANDONED, BY EITHER COMPLETELY REMOVING THOSE FROM THE LAND, OR BY GROUTING EITHER END OF THE SEWER WITH A MINIMUM 300mm THICK CONCRETE PLUG.

- 8.2. UNUSED MAINTENANCE HOLES AND CATCH BASINS MUST BE COMPLETELY REMOVED.
- 8.3. OPENING IN MAINTENANCE HOLES WHERE SERVICES WERE REMOVED MUST BE BRICKED, FARGED AND SEALED.

9. EROSION AND SEDIMENT CONTROL

- 9.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN THROUGHOUT CONSTRUCTION. CONSTRUCTION IS COMPLETED AND VEGETATIVE COVER IS ESTABLISHED, BUT PRIOR TO FENCE BECOMING OVERGROWN, ENGINEER'S REPRESENTATIVE TO DETERMINE IF VEGETATION HAS REACHED THE CRITICAL POINT AND WILL THEN INSTRUCT CONTRACTOR TO REMOVE FENCE.
- 9.2. ALL EROSION AND SEDIMENT CONTROL MEASURES (TEMPORARY SEDIMENT CONTROL FENCES, STORM SEWER BULKHEADS, ROCK CHECK DAMS, WORK LIMIT FENCES, SEDIMENT BASINS, ETC.) MUST BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 9.3. TEMPORARY VEHICLE TRACKING CONTROLS TO BE CONSTRUCTED AS PER REQUIREMENTS IN 'EROSION & SEDIMENT CONTROL GUIDELINE FOR URBAN CONSTRUCTION' DATED DECEMBER 2006. AT ALL ACCESS POINTS, CONTRACTOR SHALL MAINTAIN THESE AS REQUIRED AND AS DIRECTED BY THE CITY ENGINEER.
- 9.4. OVERLAND SHEET FLOW EROSION PROTECTION SHALL BE AS PER OPSD 219.130. IF EXCESSIVE SEDIMENT BUILDUP/ BLOCKAGE OCCURS (VISUAL INSPECTION) THEN REPLACEMENT OF THE FILTER CLOTH IS REQUIRED.
- 9.5. CATCH BASIN SEDIMENT CONTROL DEVICE, I.E. "SILTSACK" BY ACF ENVIRONMENT OR APPROVED EQUIVALENT, TO BE PLACED AS PER MANUFACTURER'S RECOMMENDATIONS (SEE DETAIL). REGULAR MAINTENANCE IS REQUIRED ("SILTSACK" SUMPS SHALL BE INSPECTED FOR SEDIMENT ACCUMULATION AND FILTER CLOTH BLOCKAGE ON A WEEKLY BASIS). THESE SEDIMENT TRAPS ARE NOT TO BE REMOVED UNTIL THE CURBS AND THE BOULEVARDES SODDED. SEDIMENT TRAPS SHALL ALSO BE PLACED AS PER DETAIL AT ALL CATCH BASIN LOCATIONS IN AREAS TO BE VEGETATED AND MAINTAINED UNTIL GROUND COVER IS ESTABLISHED.
- 9.6. ALL SILT FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.
- 9.7. MUD MATS TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. MUD MATS SHALL BE A MINIMUM OF 3.0m WIDE, 15.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. CONTRACTOR TO ENSURE ALL VEHICLES LEAVE THE SITE VIA THE MUD MAT AND THAT THE MAT IS MAINTAINED IN A MANNER TO MAXIMIZE EFFECTIVENESS AT ALL TIMES.
- 9.8. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL MEASURES AS PER CITY OF HAMILTON. THESE MEASURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.
- 9.9. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE CITY OF HAMILTON DEPARTMENT OF PUBLIC WORKS.
- 9.10. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.
- 9.11. ALL DISTURBED AREAS NOT SCHEDULED FOR FURTHER CONSTRUCTION WITHIN 45 DAYS WILL BE PROVIDED WITH A SUITABLE TEMPORARY MULCH AND SEED COVER WITHIN 7 DAYS OF THE COMPLETION OF THAT PARTICULAR PHASE OF CONSTRUCTION.
- 9.12. ALL DISTURBED EXTERNAL AREAS SHALL BE REVEGETATED WITH PERMANENT COVER (AS DETAILED) WITHIN 7 DAYS OF THE COMPLETION OF THAT PARTICULAR PHASE OF CONSTRUCTION.
- 9.13. ADDITIONAL EROSION AND SEDIMENT CONTROL LOCATIONS/ MEASURES MAY BE REQUIRED AS DETERMINED BY THE CITY/CONSERVATION AUTHORITY

10. MAINTENANCE RECOMMENDATIONS

- 10.1. REMOVE SEDIMENT AND CONTAMINANTS ANNUALLY AND REINSTATE STORM WATER MANAGEMENT FACILITY ACCORDING TO THE DESIGN OUTLINED ON THIS PLAN.
- 10.2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE VISUALLY INSPECTED AFTER EACH WORKING DAY AND MAINTAINED WHEN REQUIRED AS DIRECTED BY THE CONSULTANT AND TO THE SATISFACTION OF THE CITY/CONSERVATION AUTHORITY. THE CONSULTANT SHALL KEEP A DAILY RECORD OF INSPECTION, MAINTENANCE, ETC. AND PRESENT THE CITY WITH A COPY OF REPORT ON A MONTHLY BASIS.
- 10.3. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.
- 10.4. THE PROPOSED STORMCEPTOR(S) AND STORAGE TANK WILL REQUIRE REGULAR ANNUAL MAINTENANCE. OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A SUITABLE CONTRACTOR TO COMPLETE THIS WORK.
- 10.5. PROPOSED SNOOT(S) (IF REQUIRED) WILL REQUIRE REGULAR MAINTENANCE DURING AND AFTER CONSTRUCTION IN ACCORDANCE WITH THE MAINTENANCE RECOMMENDATIONS OUTLINED IN SNOOT BEST MANAGEMENT PRODUCTS INC. DOCUMENT. THIS INCLUDES BUT IS NOT LIMITED TO REMOVAL OF SEDIMENT FROM THE SUMP; REMOVAL OF FLOATABLES AND TRASH AND ANNUAL INSPECTION OF THE ANTI-SIPHON VENT, ACCESS HATCH AND TRASH SCREEN. OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A SUITABLE CONTRACTOR TO COMPLETE THIS WORK.

6. GRADING NOTES