#### LEGISLATION, REGULATION AND CODES

- 1 ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL BE CONSTRUCTED ACCORDING TO THE LATEST CITY OF TORONTO STANDARD DRAWINGS AND SPECIFICATIONS. ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS MAY, SUBJECT TO THE APPROVAL OF THE CITY OF TORONTO, BE USED WHERE NO CITY STANDARD OR SPECIFICATION IS AVAILABLE.
- 2 ALL WORK SHALL BE COMPLETED ACCORDING TO THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE
- 3 ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE ACCORDING TO THE CURRENT ONTARIO TRAFFIC MANUAL BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.

#### CONSTRUCTION NOTES

- 1 ALL MATERIAL FOR SEWER, FORCEMAIN, WATERMAIN, HYDRANTS AND APPURTENANCES, SHALL BE ACCORDING TO CITY OF TORONTO MATERIAL/MANUFACTURER SPECIFICATIONS AS REQUIRED BY CHAPTER 6, MATERIAL SPECIFICATIONS FROM DESIGN CRITERIA FOR SEWERS AND WATERMAINS MANUAL.
- 2 UTILITY SEPARATION SHALL BE ACCORDING TO APPENDIX 'D' OF THE CITY OF TORONTO DESIGN CRITERIA FOR SEWERS AND WATERMAINS MANUAL
- 3 SERVICE CONNECTIONS AND UTILITY CUTS MADE IN ROAD PAVEMENTS SHALL BE BACKFILLED WITH UNSHRINKABLE FILL ACCORDING TO TS 4.60.
- 4 ALL AREAS DISTURBED DURING CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR. GRASS AREAS SHALL BE TREATED WITH 100mm OF TOPSOIL AND SHALL BE SODDED ACCORDING TO TS 5.00 AND
- 5 ALL EXISTING UTILITIES SHOWN ON DRAWINGS (PLAN AND PROFILE) ARE FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL SATISFY THEMSELVES AS TO THE ACTUAL LOCATION AND DEPTH OF ANY UTILITY AND SHALL BE LIABLE FOR ALL OR ANY DAMAGE.
- 6 ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND CONSTRUCTION DRAWINGS MUST BE REPORTED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- 7 ALL SURVEY STAKE LAYOUT POINTS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE LAYOUT SHALL BE IMMEDIATELY REPORTED TO THE CITY.
- 8 ATTENTION IS DIRECTED TO THE POSSIBILITY OF EXISTING PRIVATE SPRINKLERS AND LIGHTING SYSTEMS WITHIN THE RIGHT-OF-WAY, WHICH ARE NOT SHOWN ON THE PLANS. LOCATING, WORKING AROUND AND PROTECTING THESE SYSTEMS SHALL BE COMPLETED AT NO EXTRA COST TO THE CITY.
- 9 AT ALL LOCATIONS WHERE THE PROPOSED WATERMAIN CROSSES UNDER OR ABOVE THE EXISTING SEWERS. OR UTILITIES GRANUI AR A BEDDING MATERIAL IS TO EXTEND FROM THE LOWER PIPE TO THE TOP OF THE UPPER PIPE. GRANULAR A TO BE COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
- 10 CONTRACTOR TO PROVIDE ADEQUATE SUPPORT DURING CONSTRUCTION AND A MINIMUM OF 300 MM VERTICAL CLEARANCE BETWEEN NEW WATERMAIN AND EXISTING GAS MAINS. MINIMUM 600mm VERTICAL CLEARANCE BETWEEN NEW WATERMAIN AND GAS MAINS LARGER THAN 300mm DIAMETER.
- 11 ALL EXISTING WATERMAINS AND SEWER PIPES LARGER THAN 300mm DIAMETER SHALL BE SUPPORTED ACCORDING TO
- 12 ALL DIMENSIONS ARE EXPRESSED IN METRES (m) AND PIPE SIZES ARE EXPRESSED IN MILLIMETRES (mm) UNLESS OTHERWISE

#### **CONTACT INFORMATION**

- 1 PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR SHALL APPLY FOR A ROAD OCCUPANCY PERMIT FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT DISTRICT OFFICE.
- 2 ALL TTC TRAFFIC IS TO BE MAINTAINED DURING CONSTRUCTION THIS WATERMAIN, SEWER OR ROAD. IN ORDER TO CO-ORDINATE ALL DISRUPTIONS IN SERVICE, CONTRACTOR TO CONTACT MR. MURRAY HILL 416-393-3302 AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- 3 NOTIFY TORONTO WATER, WATER TREATMENT AND SUPPLY AT 416-397-0187 OR SEND AN E-MAIL MESSAGE TO TRUNKWATER@TORONTO.CA TWO WEEKS PRIOR TO EXCAVATION NEAR THE 400mm TRANSMISSION WATERMAIN SO THAT A TORONTO WATER INSPECTOR MAY BE PRESENT.
- 4 DURING THE CONSTRUCTION OF WATERMAIN/SERVICES OR SEWER/LATERALS CLOSE TO AN EXISTING TRANSMISSION WATERMAIN CONTRACTOR TO NOTIFY TORONTO WATER AT 416-397-0187 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.

#### ORIGINAL DATA SOURCE

1 SURVEY DATA OBTAINED FROM RADY-PENTEK & EDWARD SURVEYING LTD. PREPARED MAY 12, 2016.

#### ROAD RECONSTRUCTION

- 1 RECONSTRUCTION OF DRIVEWAY ENTRANCES SHALL BE ACCORDING TO T-310.050-8.
- 2 LIMITS OF SIDEWALK / CURB RECONSTRUCTION ARE APPROXIMATE, ACTUAL LIMITS ARE TO BE CONFIRMED IN THE FIELD BY THE CONTRACT
- CHAINAGE IS ESTABLISHED FROM THE CENTRELINE OF CONSTRUCTION AND GUTTER GRADES ARE CALCULATED ALONG THE GUTTER LINE.
- 4 HEIGHT OF CURB FACES MAY VARY ALONG LENGTH OF GUTTER, AS SHOWN ON PROFILE, OR TO BE CONFIRMED IN THE FIELD.
- 5 ADJUST ALL STRUCTURES (MAINTENANCE HOLES, CATCH BASINS, ETC.) TO SUIT NEW DESIGN ELEVATIONS INCLUDING BREAKING DOWN AND REMOVAL OF PORTION OF TOP OF STRUCTURES TO ALLOW FOR MINIMUM 150mm ADJUSTMENTS.
- 6 ALL CURB SHALL BE CONSTRUCTED WITH A LEDGE AT THE BACK OF THE CURB TO FACILITATE FUTURE SIDEWALK CONSTRUCTION.
- 7 FULL DEPTH SAW-CUTS ARE REQUIRED AT CONSTRUCTION LIMITS OF EXISTING CURB, SIDEWALK AND PAVEMENT UNLESS OTHERWISE SHOWN.
- 8 SAW CUT EXISTING PAVEMENT, SIDEWALK, CURB, GUTTER, DRIVEWAYS, WALKWAYS, ETC. AT CONSTRUCTION LIMITS TO PROVIDE A CLEAN JOINT FOR THE PROPOSED WORK.
- 9 CONSTRUCT PEDESTRIAN SIDEWALK RAMPS WITH TACTILE WALKING SURFACE INDICATORS ACCORDING TO T-310.030-7, T-310.030-8, T-310.030-9, T-310.030-10 AND T-310.030-11.
- 10 EXISTING ENTRANCE RAMPS TO BE RE-INSTATED. VEHICULAR SIDEWALK RAMP SHALL BE ACCORDING TO T-310.050-1.
- 11 ADJUSTMENT OF APPROACHES, WALKWAYS, AND STEPS MAY BE REQUIRED. LIMITS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
- 12 EXISTING ASPHALT THICKNESS MAY VARY, TAPER TO MATCH EXISTING AT CONSTRUCTION LIMITS (MINIMUM 2.0 M).
- 13 FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS ARE SODDED OR BACKYARDS GRADED AND SODDED FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED

#### GRADING & ROAD/ PAVEMENTS

- 1. ALL AREA GRADING AND RESULTING DRAINAGE PATTERNS SHALL NOT ADVERSELY AFFECT ADJACENT LANDS.
- 2. THE STORM DRAINAGE SHALL BE SELF CONTAINED WITHIN THE SUBJECT PROPERTY UNTIL IT CAN BE DISCHARGED, REUSED, INFILTRATED AND/OR EVAPOTRANSPIRED IN A MANNER ACCEPTABLE TO THE CITY.
- 3. MINIMUM GENERALLY ACCEPTED GRADIENT 2.0 PERCENT
- 4. MAXIMUM GENERALLY ACCEPTABLE GRADIENT 5.0 PERCENT.
- 5. MAXIMUM ACCEPTABLE SLOPE 3 PARTS HORIZONTAL TO 1 PART
- 6. NO ALTERATIONS TO EXISTING BOUNDARY ELEVATIONS OR ADJACENT LANDS SHALL BE UNDERTAKEN UNLESS WRITTEN AGREEMENT WITH THE ADJACENT PROPERTY OWNER IS OBTAINED AND SUBMITTED IN A FORMAT ACCEPTABLE TO THE CITY.
- 7. MINIMUM SWALE GRADIENT 2.0 PERCENT
- 8. MINIMUM SWALE DEPTH 150 MM.
- 9. ALL SWALES OR DITCHES HAVING A VELOCITY IN EXCESS OF 1.5 METRES/SECOND SHALL BE DESIGNED TO INCORPORATE EROSION
- 10. THE MINIMUM GRADIENT ON ANY DRIVEWAY SHALL BE 2.0 PERCENT. THE MAXIMUM DRIVEWAY GRADIENT IS 8.0 PERCENT
- 11. RETAINING WALLS SHALL BE CONSTRUCTED ENTIRELY ON THE UPPER PROPERTY SO THAT TIE BACKS (IF REQUIRED) DO NOT CROSS PROPERTY
- 12. MAXIMUM PONDING DEPTH OF 0.3 METRE.
- 13. PROPOSED SPOT ELEVATIONS WILL BE SHOWN FOR ASPHALT, LANDSCAPE OR CONCRETE AREAS. UNLESS OTHERWISE NOTED TOP OF CURB ELEVATIONS ARE 0.15 METRE ABOVE ASPHALT ELEVATIONS EXCEPT AT CURB DEPRESSIONS AND WHEEL CHAIR RAMPS.
- 14. WHERE NEW ASPHALT MATCHES EXISTING ASPHALT, GRIND EXISTING ASPHALT A MINIMUM OF 300 MM WIDE AND 40 MM DEEP FOR APPLY HOT RUBBER SEALING COMPOUND IN ACCORDANCE WITH OPSS 1212. ALL SURFACES TO BE TACK COATED WITH SS-1.
- 15. THE CONCRETE CURB, CONCRETE SIDEWALK (IF APPLICABLE) AND ALL RESTORATION ALONG FRONTING ROADWAYS TO THE SITE MUST BE CONSTRUCTED AND CARRIED OUT IN ACCORDANCE WITH ALL APPLICABLE AND CURRENT CITY OF TORONTO STANDARDS.
- CITY OF TORONTO STANDARDS INCLUDE BUT NOT LIMITED TO:
- T-350.01 URBAN ENTRANCES • T-310.010-2 - CONCRETE SIDEWALK WITH BOULEVARD

150mm GRANULAR A

150mm GRANULAR A

- T-310.010-4 COMBINED CONCRETE CURB AND SIDEWALK • T-310.050-1 - VEHICLE ENTRANCE IN COMBINED CURB AND SIDEWALK
- T-600.11-1 CONCRETE CURB (BORDERING DRIVEWAY RETURN CURB AT ENTRANCES)
- •T-600.05-1 CONCRETE CURB AND GUTTER.
- 16. MINIMUM PAVEMENT REQUIREMENTS FOR ROADWAYS ARE AS FOLLOWS: •LOCAL ROADS 40mm SP12.5 B 60mm SP19.0 B
  - 150mm GRANULAR B • ASPHALT DRIVEWAY (CITY OF TORONTO STANDARD T-310.050-8) 40mm SP 9.5 PG 58-28 SURFACE COURSE 60mm SP 19.0 B PG 58-28 BASE COURSE

AND WARM MIX ASPHALT, DATED SEPTEMBER 2017

• NEW SUPERPAVE ASPHALT SPECIFICATIONS SHALL BE AS FOLLOWS: •• TS 1101 MATERIAL SPECIFICATION FOR PERFORMANCE GRADED ASPHALT CEMENT, DATED SEPTEMBER 2017 •• TS 1151 MATERIAL SPECIFICATION FOR SUPERPAVE, STONE MASTIC

#### **WATERMAINS**

- 1 PVC WATERMAINS SHALL BE MINIMUM DR 18 CLASS 235 (AWWA)
- 2 EMBEDMENT MATERIAL FOR FLEXIBLE PIPE SHALL BE ACCORDING TO OPSD 802.010 AND USING GRANULAR A ACCORDING TO TS 1010 AND COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
- 3 MINIMUM COVER ON WATERMAINS SHALL BE 1.8m.
- 4 ALL HYDRANTS SHALL BE CONSTRUCTED ACCORDING TO T-1105.01.
- 5 HYDRANT LEADS SHALL BE MINIMUM DR 18 CLASS 235 (AWWA)
- 6 ALL SERVICE CONNECTIONS SHALL BE CONSTRUCTED ACCORDING TO T-1104.01, T-1104.02-1, T-1105.02-1 AND T-1104.02-3.
- 7 SINGLE WATER SERVICE CONNECTIONS SHALL BE A MINIMUM OF 25mm DIA. TYPE "K" SOFT COPPER ACCORDING TO T-1104.01.
- 8 ALL CURB AND VALVE BOXES TO BE LOCATED AT STREET LINE
- 9 MECHANICAL THRUST RESTRAINTS SHALL BE INSTALLED AT ALL FITTINGS, BENDS, TEES, CROSSES, REDUCERS AND VALVES FOR ALL WATERMAIN SIZES. MECHANICAL RESTRAINTS AT JOINTS SHALL BE INSTALLED AT EVERY PIPE JOINT 6.1m OF EITHER SIDE OF THE VALVE FOR WATERMAINS 100mm DIAMETER OR LARGER.
- 10 ALL TEES, PLUGS, HORIZONTAL, VERTICAL BENDS, REDUCERS AND HYDRANTS TO HAVE CONCRETE THRUST BLOCKS ACCORDING TO T-1103.01 AND T-1103.020.
- 11 WATERMAINS MUST FOLLOW THE ONTARIO MINISTRY OF THE ENVIRONMENT PROCEDURE F-6-1 THAT GOVERN THE SEPARATION OF SEWERS AND WATERMAINS. A MINIMUM VERTICAL CLEARANCE OF 0.30m WHEN CROSSING OVER AND 0.5m WHEN CROSSING UNDER SEWERS AND ALL OTHER UTILITIES IS REQUIRED. MUST ALSO MAINTAIN 2.5m HORIZONTAL SEPARATION WITH SEWERS.
- 12 ALL VALVES LESS THAN 400mm WILL BE IN A VALVE AND BOX ACCORDING TO T-1101.02-2. ALL VALVES 400mm AND LARGER SHALL BE IN A CHAMBER.
- 13 SACRIFICIAL ANODES SHALL BE INSTALLED ON ALL METALLIC PIPES AND APPURTENANCES, WATER SERVICES AND FITTINGS ACCORDING TO
- T-1106.04, T-1106.05, T-1106.06 AND TS 7.22. 14 TRACER WIRE INSTALLATION SHALL BE ACCORDING TO TS 7.40.
- 15 HYDROSTATIC PRESSURE TEST AND LEAKAGE TESTING OF THE WATERMAIN SHALL BE ACCORDING TO TS 441.
- 16 THE NEW WATERMAIN SHALL BE ISOLATED ACCORDING TO T-1104.03-3 OR T-1104.03-4 UNTIL BACTERIOLOGICAL TESTS ARE SATISFACTORILY
- 17 PROVISIONS FOR FLUSHING THE WATER MAIN PRIOR TO TESTING AND SO FORTH MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET ON 100mm AND LARGER LINES ACCORDING TO T-1104.03-1. COPPER WATER SERVICES SHALL HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. ON FIRE LINES, FLUSHING OUTLET TO BE 50mm DIAMETER MINIMUM OR A HYDRANT
- 18 DISINFECTION OF THE WATERMAIN SHALL BE ACCORDING TO TS 7.30 AND SHALL INCLUDE ALL NEW WATER SERVICES 100mm DIA AND
- 19 TORONTO WATER REQUIRES THAT THE NEW DISTRIBUTION SYSTEM REMAIN ISOLATED UNTIL SATISFACTORY BACTERIOLOGICAL SAMPLE RESULTS ARE RECEIVED. ECS CONTRACT ADMINISTRATOR SHALL NOTIFY TORONTO WATER WHEN SAMPLE RESULTS HAVE PASSED IN ORDER TO PROCEED WITH REMOVAL OF THE BLOW-OFF AND BACK FILLING OF THE ACCESS PIT.
- 20 AFTER SATISFACTORY DISINFECTION OF THE NEW WATERMAIN IS ACHIEVED, PERMANENT CONNECTIONS TO THE EXISTING WATERMAIN(S) WITH A FILLER PIECE SHALL BE MADE ACCORDING TO TS 7.70.
- 21 CITY IN-SERVICE WATER VALVES, CURB STOPS, FIRE HYDRANTS CAN ONLY BE OPERATED BY TORONTO WATER STAFF.
- 22 ALL NEW WATERMAINS SHALL BE INSULATED WHERE THE COVER IS LESS THAN 1.65m ACCORDING TO T-708.01-4.
- 23 THE CONTRACTOR SHALL CONNECT OR RECONNECT ALL STRAY CURRENT DRAINAGE CABLES CONNECTED TO THE TTC ELECTRIFIED RAIL SYSTEM ENCOUNTERED DURING WATERMAIN CONSTRUCTION.

#### WATERMAIN - FILL AREAS

1 PIPES ARE NOT TO BE LAID ON FILL UNTIL THE FIELD DENSITY TEST REPORTS HAVE BEEN SUBMITTED AND APPROVED BY THE

CONTRACT ADMINISTRATOR TO DECIDE WHETHER TO USE)

ENGINEER. 2 FILL TO BE PLACED TO A MINIMUM OF 600mm ABOVE THE WATERMAIN GRADES AND TO 3m MINIMUM ON EACH SIDE PRIOR

TO WATERMAIN LAYING COMPACTED TO A MINIMUM OF 100% OF

- 3 SOIL DENSITY TESTS SHALL BE TAKEN ALONG CENTRELINE OF THE WATERMAIN AND ON LINES 1.5m ON EITHER SIDE OF SAME AT A MAXIMUM INTERVAL OF 30m. TESTS TO BE TAKEN AT EACH
- 4 ALL HYDRANTS, TEES, VALVES, BENDS, PLUGS AND EACH PIPE JOINT ARE TO BE MECHANICALLY RESTRAINED.
- 5 PIPE JOINT DEFLECTIONS ARE NOT ALLOWED.

MAXIMUM DRY DENSITY IN 300mm LIFTS.

### **EROSION AND SEDIMENT CONTROL**

- 1 EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED FROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED OR REPLACED WITHIN 48 HOURS OF INSPECTION OR
- 2 ALL DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
- 3 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 AREA IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS AND A TORONTO REGION CONSERVATION AUTHORITY ENFORCEMENT OFFICE SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
- 4 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 AND REFUELING WILL BE CONDUCTED A MINIMUM OF 30m FROM THE
- ALL GRADES WITHIN THE REGULATORY FLOOD PLAN WILL BE MAINTAINED OR MATCHED.

#### SANITARY AND STORM SEWERS

- 1 MAIN LINE STORM PVC PIPE SHALL BE DR 35.
- 2 MAIN LINE SANITARY PVC PIPE SHALL BE DR 26.
- 3 SANITARY SERVICE CONNECTIONS SHALL BE SINGLE, 150mm DIAMETER MINIMUM, PVC DR 28 INSTALLED AT 2 PERCENT AND THE COLOUR SHALL BE GREEN, FOR SINGLE RESIDENTIAL DWELLINGS.
- EMBEDMENT MATERIAL FOR FLEXIBLE PIPE SHALL BE ACCORDING TO OPSD 802.010 AND USING GRANULAR A ACCORDING TO TS 1010 AND COMPACTED TO MINIMUM 98% OF MAXIMUM DRY
- BEDDING FOR RIGID PIPE SHALL BE CLASS B BEDDING MATERIA ACCORDING TO OPSD 802.031 AND USING GRANULAR A BEDDING MATERIAL ACCORDING TO TS 1010 AND COMPACTED TO MINIMUM 98 % OF MAXIMUM DRY DENSITY.
- 6 ULTRA-RIB PIPE IS NOT PERMITTED WITHIN THE MUNICIPAL RIGHT-OF-WAY.
- 7 MAINTENANCE HOLES SHALL BE ACCORDING TO T-701.010 (1200mm), T-701.011 (1500mm), T-701.012-1 (1800mm) OR T-701.013 (2400mm). FRAME AND COVER SHALL BE ACCORDING TO OPSD 401.010 TYPE A CLOSED (SANITARY) TYPE B OPEN
- 8 MAINTENANCE HOLE CHAMBER OPENINGS MUST BE LOCATED

ON THE UPSTREAM SIDE OF THE MAINTENANCE HOLE.

(STORM).

- 9 BENCHING DETAILS SHALL BE ACCORDING TO T-701.021 OR AS SHOWN ON THE DRAWING DT2.
- 10 DROP STRUCTURES SHALL BE ACCORDING TO T-1003.01 (EXTERNAL) AND T-1003.01-2 (INTERNAL).
- 11 SANITARY MAINTENANCE HOLES SHALL HAVE WATERTIGHT FRAMES AND COVERS IN PONDING AREAS ACCORDING TO OPSD 401.030.
- 12 REINFORCED CONCRETE PIPE SHALL BE MINIMUM 65-D. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLES 807.010 AND 807.030.
- 13 NON-REINFORCED CONCRETE PIPE 150mm TO 250mm SHALL BE CLASS 3. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLE
- 14 SINGLE CATCHBASINS SHALL BE ACCORDING TO T-705.010 COMPLETE WITH GOSS TRAP, WHERE SPECIFIED. FRAME AND COVER SHALL BE ACCORDING TO OPSD 400.070.
- 15 DOUBLE CATCHBASINS SHALL BE ACCORDING TO T-705.020 COMPLETE WITH GOSS TRAP, WHERE SPECIFIED.
- 16 CATCHBASIN LEADS TO BE 250mm PVC DR 35 FOR SINGLE CATCHBASINS AND 300mm PVC DR 35 FOR DOUBLE CATCHBASINS.
- 17 CONNECTION DETAIL FOR SEWER PIPE AT CATCHBASINS AND MAINTENANCE HOLES SHALL BE ACCORDING TO T-708.020.
- 18 ROOF DOWN SPOUTS MUST SPILL TO GRADE AND THE WEEPING TILE SHOULD BE PUMPED TO GRADE AND SPILL TO A LANDSCAPED AREA.

#### GRADING

- 1 ALL GRASSED AND PAVED SURFACES SHALL BE GRADED IN ACCORDANCE WITH THE CITY'S DESIGN CRITERIA. THE MINIMUM AND MAXIMUM GRADIENTS FOR GRASSED AREAS SHALL BE 2.0% AND 5.0%, RESPECTIVELY, UNLESS OTHERWISE NOTED. THE SLOPING OF GRASSED AREAS SHALL NOT EXCEED 3:1 (HORIZ.: VERT.) WITH A MAXIMUM VERTICAL ELEVATION NOT IN EXCESS OF THE APPLICABLE CITY STANDARD. THE MINIMUM AND MAXIMUM GRADIENTS FOR PAVED AREAS SHALL BE 0.5% AND 5.0%, RESPECTIVELY, UNLESS OTHERWISE NOTED
- ALL EXTERNAL SITE AREAS DISTURBED BY THE ACTIVITIES OF THE CONTRACTOR SHALL BE RESTORED TO EXISTING CONDITION OR BETTER. GRASSED AREAS SHALL BE RESTORED BY PLACING 100mm OF TOPSOIL AND ACTIVELY GROWING NO. 1 NURSERY SOD. ALL BOULEVARDS TO BE SODDED.
- 3 PROPOSED ELEVATION ALONG SITE PROPERTY LINES MUST MATCH EXISTING ELEVATION UNLESS OTHERWISE SPECIFIED.
- 4 A SILT FENCE MUST BE PLACED AROUND THE PERIMETER OF THE SITE, CLEANED PERIODICALLY AS REQUIRED, AND REMOVED WHEN CONSTRUCTION IS COMPLETE.

#### ROADS, DRIVEWAYS AND PARKING AREAS

1 CURBS WITHIN THE SITE TO BE AS PER T-600.05-1

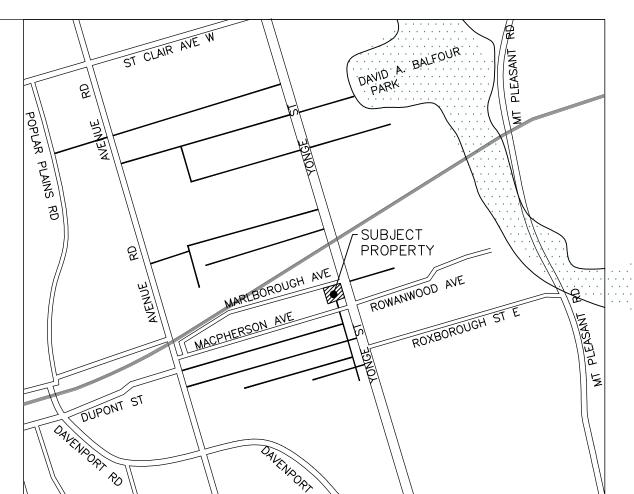
GROUND SERVICES OR OTHER OBSTRUCTIONS.

- 2 CONCRETE TOE WALLS PER OPSD 3120.100. WHERE HEIGHT EXCEEDS 0.60m INSTALL GUARD PER DETAIL ON THE ARCHITECTURAL SITE PLAN.
- 3 ALL DRIVEWAYS SHALL BE SET BACK A MINIMUM OF 1.2 METRES FROM ABOVE
- 4 AT ALL ENTRANCES TO THE SITE, THE MUNICIPAL CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY. THE DRIVEWAY GRADE WILL BE COMPATIBLE WITH THE EXISTING SIDEWALK AND DEPRESSED CURB WILL BE PROVIDED FOR EACH ENTRANCE. ACCESS CONSTRUCTION AS PER APPLICABLE CITY STANDARDS
- 5 EXISTING SIDEWALK THROUGH DRIVEWAY ENTRANCES TO BE REMOVED AND
- 6 THE PAVEMENT MAKEUP OF THE DRIVEWAY ENTRANCE AND ROADS WITHIN THE CITY RIGHT -OF-WAY SHALL BE PER AS CITY OF TORONTO LATEST SUPERPAVE STANDARD.

## ASPHALT PAVING AREAS

REPLACED AS PER T-310.010-2.

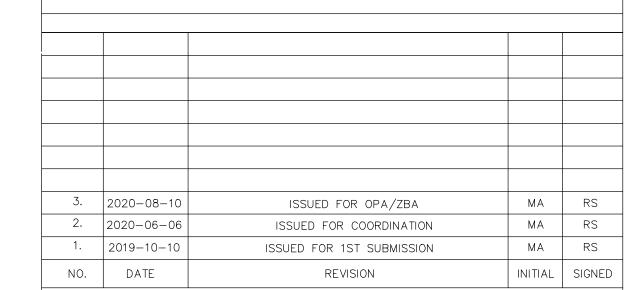
- 1 INSPECTION OF SUB-GRADE IS REQUIRED BY THE GEOTECHNICAL CONSULTANT PRIOR TO PLACEMENT OF PAVEMENT STRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF INSPECTIONS WITH THE GEOTECHNICAL
- 2 PAVEMENT STRUCTURES TO BE CONSTRUCTED AS PER GEOTECHNICAL REPORT AND GEOTECHNICAL'S CONSULTANT'S RECOMMENDATIONS.



LEGEND

1. MEASUREMENTS IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN.

- CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXISTING UNDERGROUND & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.
- THE INFORMATION CONTAINED ON THIS PLAN PERTAINS TO THE INSTALLATION OF NEW MUNICIPAL SERVICING ONLY AND SHALL NOT BE RELIED UPON BY A THIRD PARTY FOR ANY OTHER DESIGN AND/OR CONSTRUCTION RELATED PURPOSES (INCLUDING PUBLIC & PRIVATE SERVICING/UTILITY LOCATES. SHORING DESIGN AND FIELD LAYOUT, UTILITY DESIGN AND CONSTRUCTION, AND ALL OTHER DESIGN AND CONSTRUCTION RELATED ACTIVITIES). ALL THIRD PARTIES ARE RESPONSIBLE FOR OBTAINING THEIR OWN LOCATES FOR ANY PUBLICLY OR PRIVATELY HELD INFRASTRUCTURE WITHIN OR ADJACENT TO THE SUBJECT DEVELOPMENT.



**BENCHMARK** 

CITY OF TORONTO DATUM.

ELEVATIONS ARE GEODETIC AND REFERRED TO THE

BENCHMARK No. CT-845, ELEVATION OF 122.193m

DATE:

DATED: SEP. 18, 2017 ENGINEERING

COUNTERPOINT ENGINEERING INC.

8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

**RANTA** ENGINEERING & CONSTRUCTION SERVICES

ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO

STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS

VERIFICATION OF ENGINEERING CONTENT.

LEGAL & TOPOGRAPHY PROVIDED BY:

ONTARIO, M8Z 1N4

DESIGN: MA

SCALE: NTS

DATE: AUGUST 2019

LAND SURVEY GROUP INC.

777 THE QUEENSWAY, UNIT 1, TORONTO,

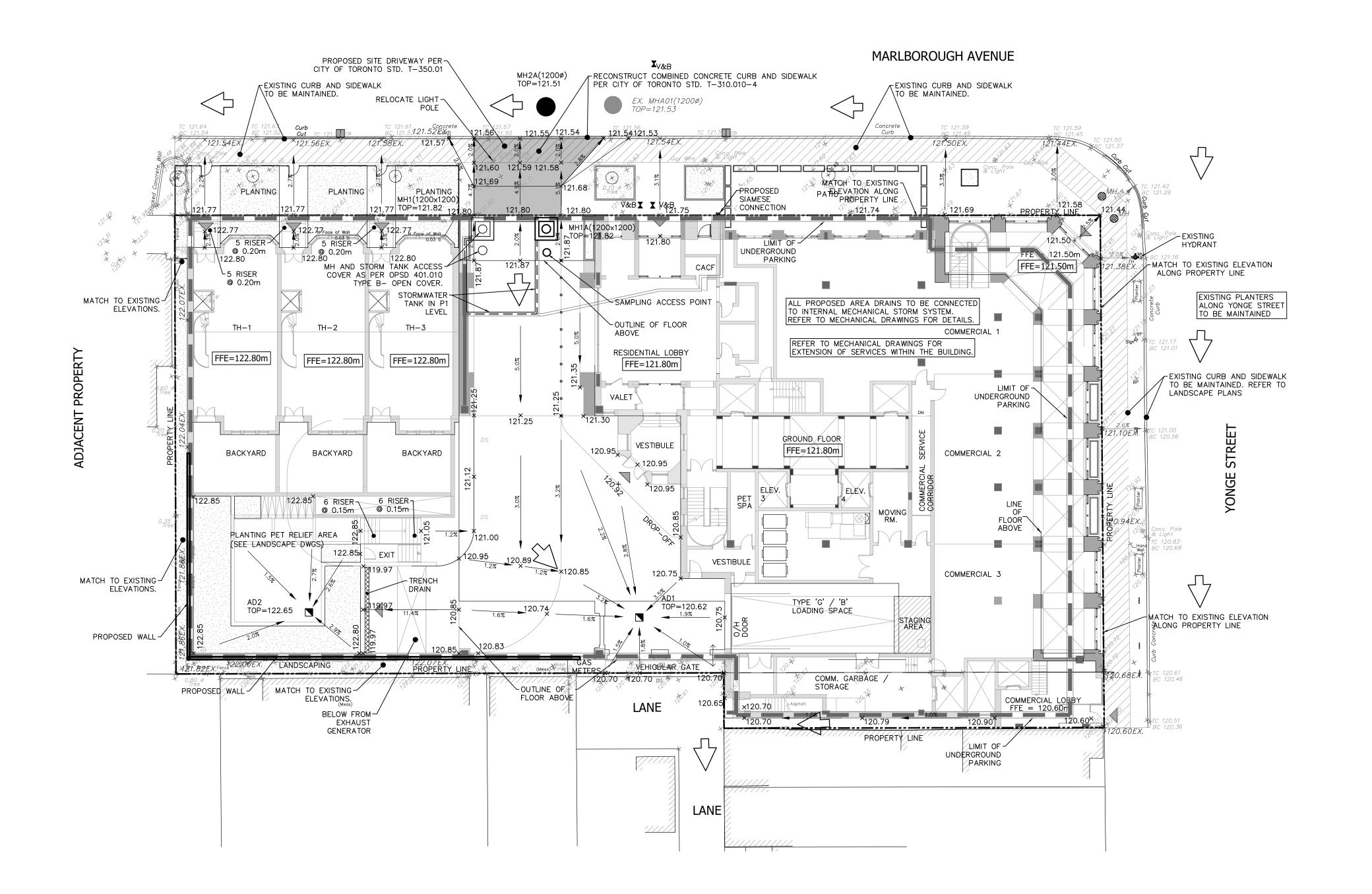
1140 YONGE STREET TORONTO, ONTARIO

GENERAL NOTES

ASHRAF HANNA, P.ENG., MANAGER, DEVELOPMENT ENGINEERING

DRAWN: MA CHECKED: RS CONTRACT No: 18072 DRAWING NUMBER: CITY DRAWING NUMBER:

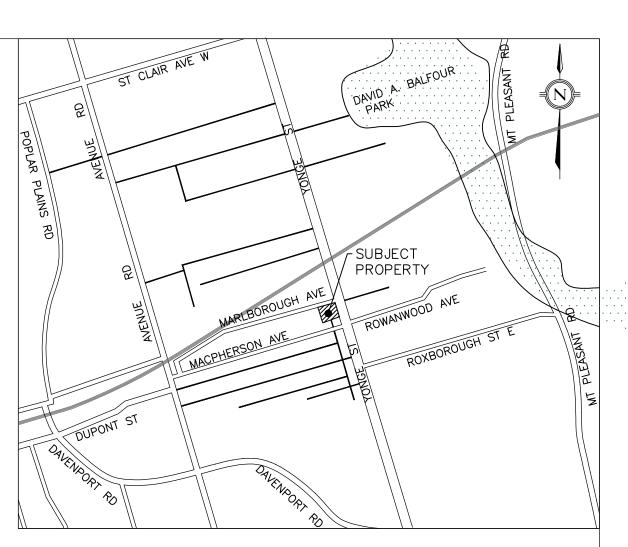
GN-1



SERVICING FOR THIS SITE INCLUDES DISCHARGE OF PRIVATE WATER INTO THE CITY'S COMBINED SEWER SYSTEM. THE OWNER SHALL APPLY FOR AND OBTAIN AN EXEMPTION UNDER CITY OF TORONTO MUNICIPAL CODE CHAPTER 681, SEWERS (THE "SEWERS BY—LAW"), WHERE APPROVED BY THE GENERAL MANAGER, TORONTO WATER, FOR THE DISCHARGE OF PRIVATE WATER INTO THE CITY'S COMBINED SEWER SYSTEM. ANY ACCEPTANCE OF THIS DRAWING DOES NOT CONSTITUTE AN APPROVAL TO CONNECT A PRIVATE WATER DRAINAGE SYSTEM OR TO DISCHARGE PRIVATE WATER TO A CITY SEWER, WHICH APPROVAL MUST TAKE THE FORM OF A DISCHARGE AGREEMENT EXECUTED BY THE GENERAL MANAGER, TORONTO WATER, IN ACCORDANCE WITH THE SEWERS BY—LAW. IF THE OWNER IS UNABLE TO OBTAIN AN EXEMPTION IN THE FORM OF A DISCHARGE AGREEMENT, OR DOES NOT REMAIN IN GOOD STANDING, AMENDMENTS TO THE APPROVED SITE PLAN OR A NEW SITE PLAN APPLICATION MAY BE REQUIRED.

- 1. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COMPLY WITH THE SEWER USE BY-LAW AND OBTAIN ALL APPROVALS/PERMITS FROM TORONTO WATER ENVIRONMENTAL MONITORING & PROTECTION UNIT FOR ANY PROPOSED TEMPORARY OR PERMANENT DISCHARGING OF GROUNDWATER INTO THE MUNICIPAL SEWER SYSTEMS AND WATERCOURSES. THE APPLICANT IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE PROVINCIAL REQUIREMENTS AND OBTAINING THE NECESSARY APPROVALS AND/OR PERMITS FROM THE MINISTRY OF THE ENVIRONMENT & CLIMATE CHANGE WITH REGARD TO ANY PROPOSED DEWATERING.
- 2. THE OWNER IS REQUIRED TO INSTALL AND MAINTAIN A PREMISE ISOLATION DEVICE FOR ALL APPLICABLE WATER SERVICES IN ACCORDANCE WITH TORONTO MUNICIPAL CODE, CHAPTER 851 WATER SUPPLY, THE BUILDING CODE, AND CSA B64 SERIES STANDARDS.

  3. THE BUILDING STORM AND SANITARY SYSTEMS SHALL BE DESIGNED TO BE ABLE TO OPERATE UNDER MUNICIPAL SEWER SURCHARGE
- . THE METHOD OF INSTALLATION FOR THE PROPOSED SERVICE CONNECTIONS WILL BE AT THE DISCRETION OF TORONTO WATER.
- 5. EXISTING SERVICE CONNECTIONS NO LONGER IN USE SHALL BE DISCONNECTED BY TORONTO WATER AT THE OWNER'S COST.
- 6. THE LOCATION OF THE WATER METER SHALL BE TO TORONTO WATER'S SATISFACTION.
- 7. THE LIMITS OF CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY ARE AT THE DISCRETION OF THE CITY INSPECTOR.
- PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY THE CONTRACTOR, DEVELOPER, OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT.
- D. BE ADVISED THAT SHOULD ANY PARTY, INCLUDING THE APPLICANT OR ANY SUBSEQUENT OWNER, APPLY FOR MORE THAN ONE CONDOMINIUM CORPORATION ENCOMPASSING ANY OR ALL OF THIS DEVELOPMENT OR MAKE AN APPLICATION THAT RESULTS IN A LAND DIVISION, STAFF MAY REQUIRE LEGAL ASSURANCES, INCLUDING BUT NOT LIMITED TO EASEMENTS, WITH RESPECT TO THE APPROVED SERVICES. SUCH ASSURANCES WILL BE DETERMINED AT THE TIME OF APPLICATION FOR CONDOMINIUM APPROVAL.



EXISTING ELEVATION

× 121.80

PROPOSED ELEVATION

EMERGENCY OVERLAND FLOW

PROPOSED STORM MH

PROPOSED AREA DRAIN

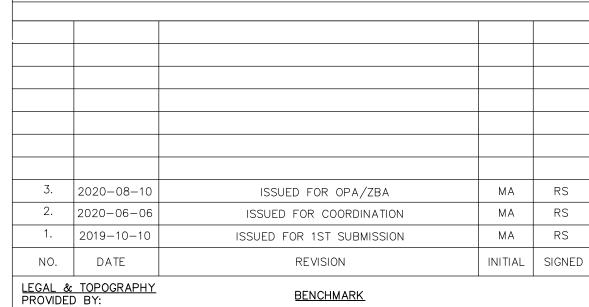
PROPOSED SANITARY MH

H&V 
PROPOSED HYDRANT AND VALVE

PROPOSED VALVE AND BOX

1. MEASUREMENTS IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN.

- 2. CONTRACTOR TO BE RESPONSIBLE FOR LOCATION OF ALL EXISTING UNDERGROUND & OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE NOTICE PRIOR TO ANY DIGGING, FOR STAKE OUT. THE CONSULTANT ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED ON THIS DRAWING.
- 3. THE INFORMATION CONTAINED ON THIS PLAN PERTAINS TO THE INSTALLATION OF NEW MUNICIPAL SERVICING ONLY AND SHALL NOT BE RELIED UPON BY A THIRD PARTY FOR ANY OTHER DESIGN AND/OR CONSTRUCTION RELATED PURPOSES (INCLUDING PUBLIC & PRIVATE SERVICING/UTILITY LOCATES, SHORING DESIGN AND FIELD LAYOUT, UTILITY DESIGN AND CONSTRUCTION, AND ALL OTHER DESIGN AND CONSTRUCTION RELATED ACTIVITIES). ALL THIRD PARTIES ARE RESPONSIBLE FOR OBTAINING THEIR OWN LOCATES FOR ANY PUBLICLY OR PRIVATELY HELD INFRASTRUCTURE WITHIN OR ADJACENT TO THE SUBJECT DEVELOPMENT.



PROVIDED BY:
LAND SURVEY GROUP INC.
777 THE QUEENSWAY, UNIT 1, TORONTO,
ONTARIO, M8Z 1N4

DATED: SEP. 18, 2017

ELEVATIONS ARE GEODETIC AND REFERRED TO THE CITY OF TORONTO DATUM.
BENCHMARK No. CT-845, ELEVATION OF 122.193m

DATE:



8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

**TORONTO** ENGINEERING & CONSTRUCTION SERVICES

ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

ASHRAF HANNA, P.ENG., MANAGER, DEVELOPMENT ENGINEERING

1140 YONGE STREET TORONTO, ONTARIO

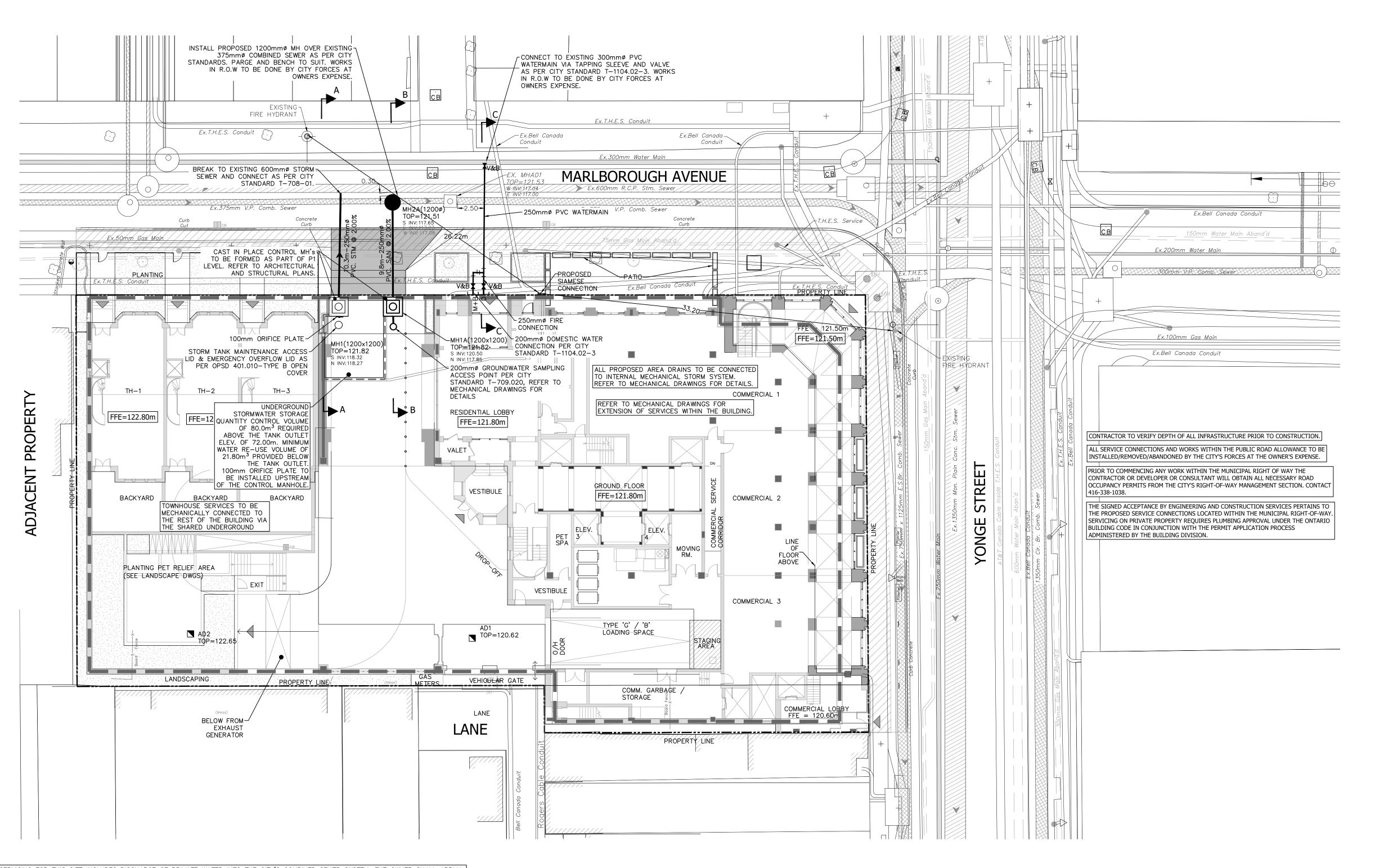
**GRADING PLAN** 

DESIGN: MA DRAWN: MA CHECKED: RS CONTRACT No: 18072

SCALE: 1:200

DATE: AUGUST 2019

CITY DRAWING NUMBER: G-1

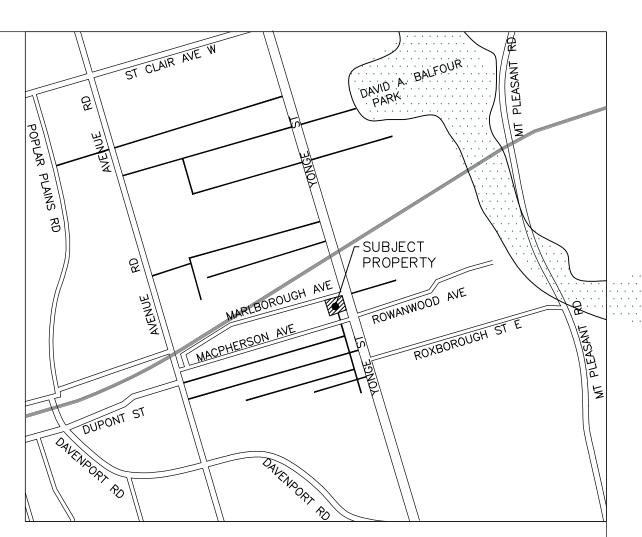


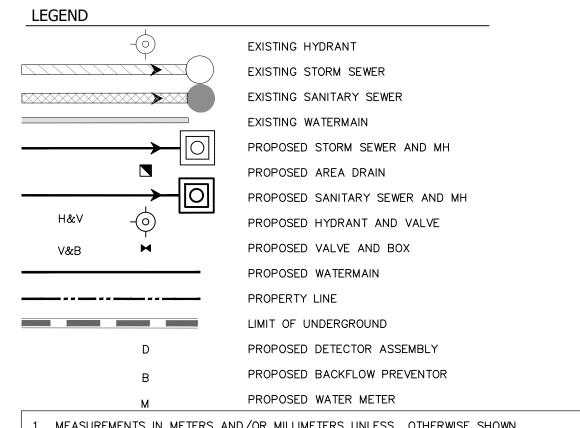
SERVICING FOR THIS SITE INCLUDES DISCHARGE OF PRIVATE WATER INTO THE CITY'S COMBINED SEWER SYSTEM. THE OWNER SHALL APPLY FOR AND OBTAIN AN EXEMPTION UNDER CITY OF TORONTO MUNICIPAL CODE CHAPTER 681, SEWERS (THE "SEWERS BY-LAW"), WHERE APPROVED BY THE GENERAL MANAGER, TORONTO WATER, FOR THE DISCHARGE OF PRIVATE WATER INTO THE CITY'S COMBINED SEWER SYSTEM. ANY ACCEPTANCE OF THIS DRAWING DOES NOT CONSTITUTE AN APPROVAL TO CONNECT A PRIVATE WATER DRAINAGE SYSTEM OR TO DISCHARGE PRIVATE WATER TO A CITY SEWER, WHICH APPROVAL MUST TAKE THE FORM OF A DISCHARGE AGREEMENT EXECUTED BY THE GENERAL MANAGER, TORONTO WATER, IN ACCORDANCE WITH THE SEWERS BY-LAW. IF THE OWNER IS UNABLE TO OBTAIN AN EXEMPTION IN THE FORM OF A DISCHARGE AGREEMENT, OR DOES NOT REMAIN IN GOOD STANDING, AMENDMENTS TO THE APPROVED SITE PLAN OR A NEW SITE PLAN APPLICATION MAY BE REQUIRED.

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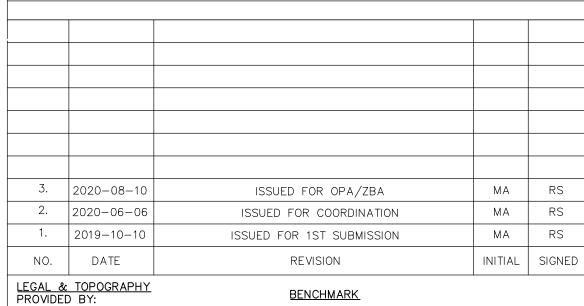
- ACCORDANCE WITH TORONTO MUNICIPAL CODE, CHAPTER 851 WATER SUPPLY, THE BUILDING CODE, AND CSA B64 SERIES STANDARDS. THE BUILDING STORM AND SANITARY SYSTEMS SHALL BE DESIGNED TO BE ABLE TO OPERATE UNDER MUNICIPAL SEWER SURCHARGE CONDITIONS.
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MEASUREMENTS IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN.

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LAND SURVEY GROUP INC. 777 THE QUEENSWAY, UNIT 1, TORONTO, ONTARIO, M8Z 1N4

DATED: SEP. 18, 2017

<u>BENCHMARK</u> ELEVATIONS ARE GEODETIC AND REFERRED TO THE CITY OF TORONTO DATUM. BENCHMARK No. CT-845, ELEVATION OF 122.193m



8395 Jane St., Suite 100, Vaughan, ON L4K 5Y2 Phone 905.326.1404 Fax 905.326.1405

**TORONTO** ENGINEERING & CONSTRUCTION SERVICES

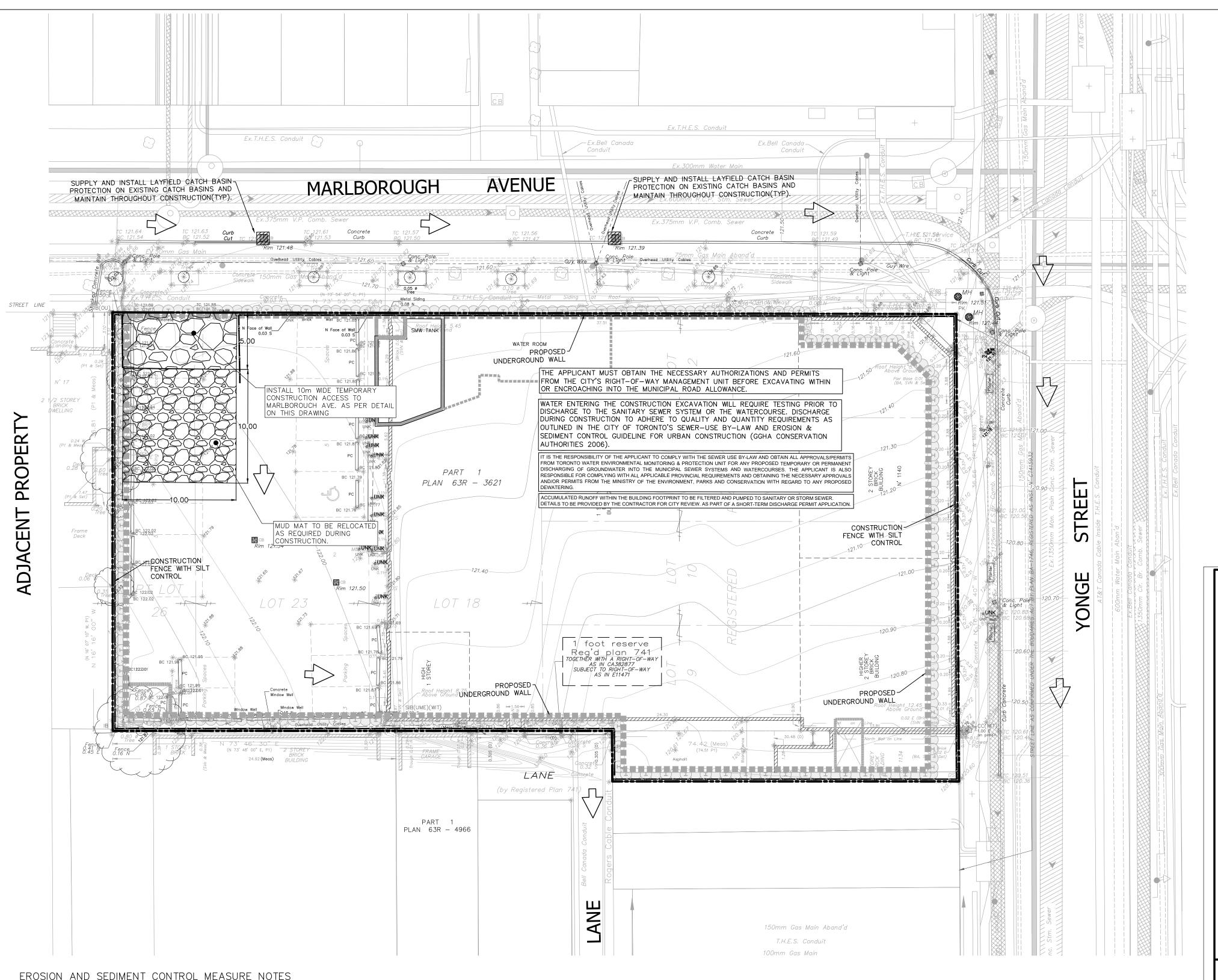
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ASHRAF HANNA, P.ENG., MANAGER, DEVELOPMENT ENGINEERING

1140 YONGE STREET TORONTO, ONTARIO

SERVICING PLAN

DESIGN:	MA	DRAWN:	MA	CHECKED:	RS	CONTRACT No:	18072
SCALE:	1:200		CITY DRAWING NUMBER:			DRAWING NUMBER:	
DATE:	AUGUST 2	.019					S-1

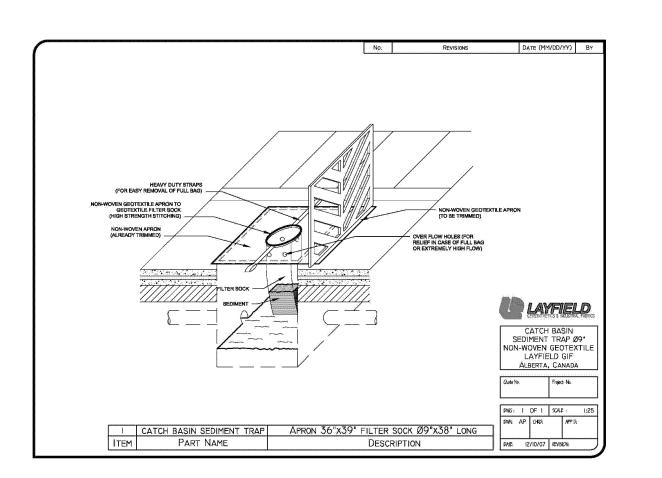


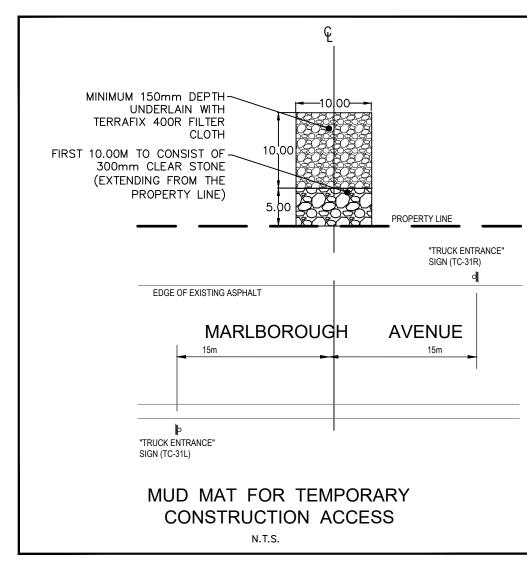
#### EROSION AND SEDIMENT CONTROL MEASURE NOTES

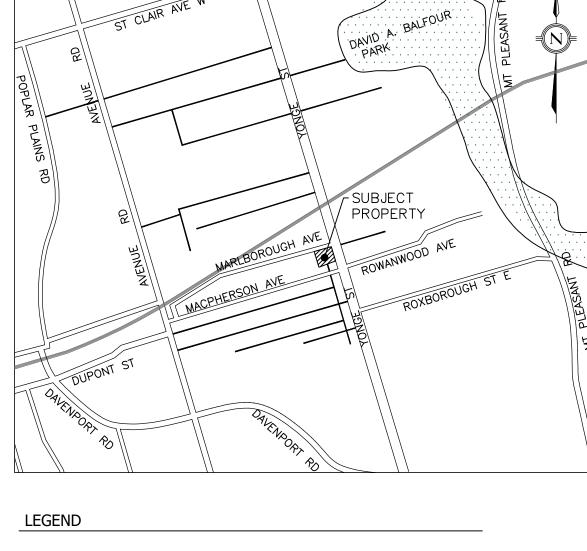
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- 2. THE APPLICANT IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE PROVINCIAL REQUIREMENTS AND OBTAINING THE NECESSARY APPROVALS AND/OR PERMITS FROM THE MINISTRY OF THE ENVIRONMENT, CONSERVATION AND PARKS (MECP) WITH REGARD TO ANY PROPOSED DEWATERING.
- 3. IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS THE CONSTRUCTION ACCESS, SILT FENCE, SECURITY
- 4. THE GUIDELINE "EROSION & SEDIMENT CONTROL GUIDELINES FOR URBAN CONSTRUCTION, DECEMBER, 2006" SHOULD BE FOLLOWED.
- 5. SEDIMENT BARRIERS, CHECK DAMS AND TEMPORARY CONSTRUCTION ACCESS TO BE INSTALLED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 6. ALL SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.
- 7. IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
- 8. THE SITE WILL BE WET DOWN IF NECESSARY TO CONTROL DUST.
- 9. ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.

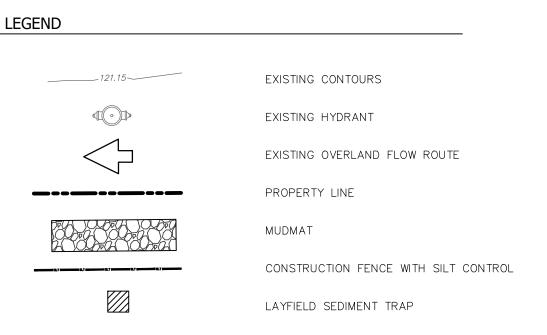
FENCE, SEDIMENT CONTROL AND MUD MATS.

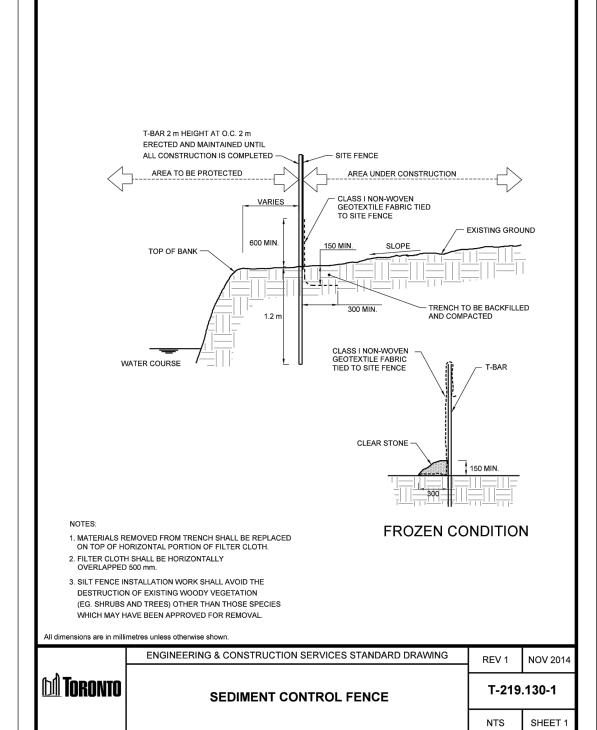
- 10. ALL CONSTRUCTION ACTIVITY WILL COMPLY WITH CITY OF TORONTO NOISE BY-LAW
- 11. SEDIMENT CONTROL FENCE TO BE AS PER CITY OF TORONTO STANDARD T-219.130-1
- 12. ALL CONSTRUCTION VEHICLES TO ENTER AND EXIT SITE FROM TEMPORARY CONSTRUCTION ACCESS.
- 13. ALL TOPSOIL STOCKPILES TO BE SURROUNDED WITH SEDIMENT CONTROL FENCING.
- 14. CONSTRUCTION ENTRANCE MAY BE RELOCATED DURING CONSTRUCTION. NEW MUD MAT IS TO BE PROVIDED BASED ON THE ATTACHED DETAIL.
- 15. FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS ARE SODDED OR BACKYARDS GRADED AND SODDED. FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED EQUIVALENT.
- 16. FILTER CLOTH WILL BE PLACED ON THE CATCHBASINS ON (PUBLIC STREET) ACROSS THE PROPERTY'S FRONTAGE.
- 17. STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.
- 18. ALL REQUIRED EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED TO THE SATISFACTION OF THE ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- 19. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT OF WAY. WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ON PUBLIC RIGHT OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT OF WAY MUST BE REMOVED IMMEDIATELY.





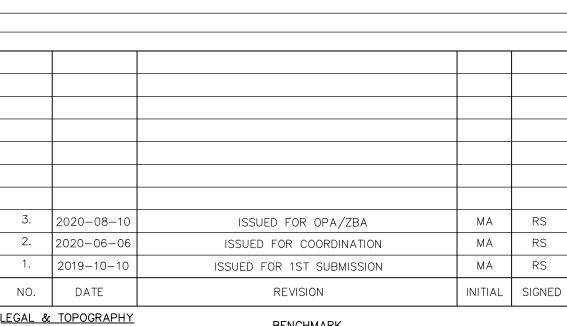






#### MEASUREMENTS IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN.

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LEGAL & TOPOGRAPHY PROVIDED BY: LAND SURVEY GROUP INC. 777 THE QUEENSWAY, UNIT 1, TORONTO, ONTARIO, M8Z 1N4

DATED: SEP. 18, 2017

DEVELOPMENT.

<u>BENCHMARK</u> ELEVATIONS ARE GEODETIC AND REFERRED TO THE CITY OF TORONTO DATUM. BENCHMARK No. CT-845, ELEVATION OF 122.193m

DATE:

August 10/20



# **TORONTO** ENGINEERING & CONSTRUCTION SERVICES

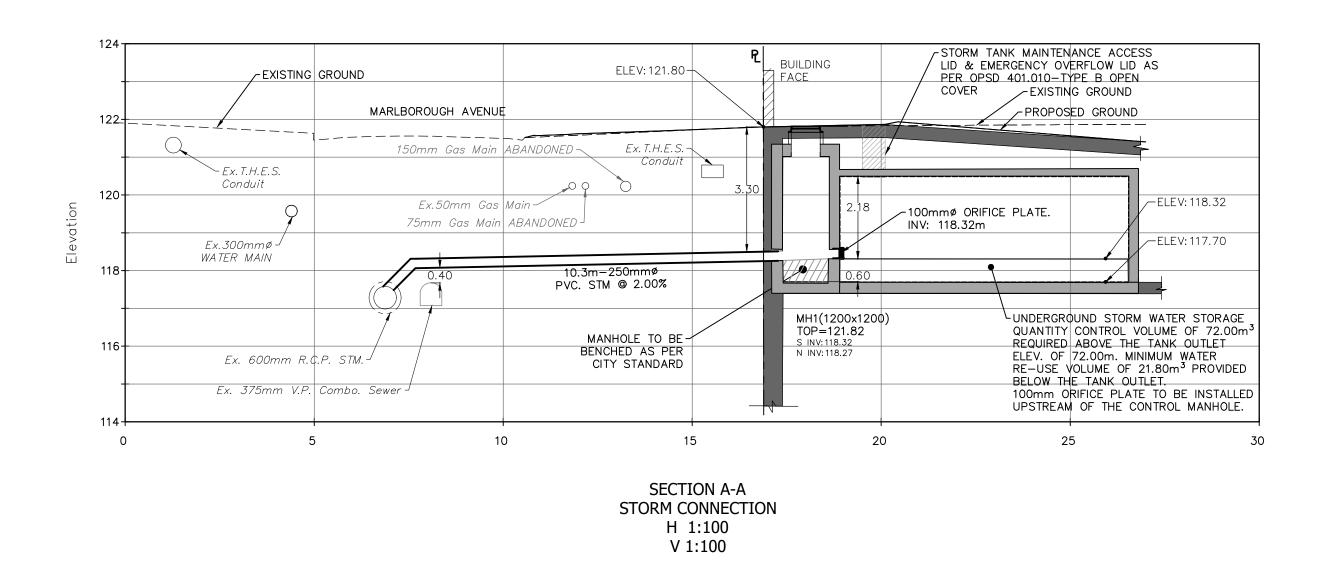
ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

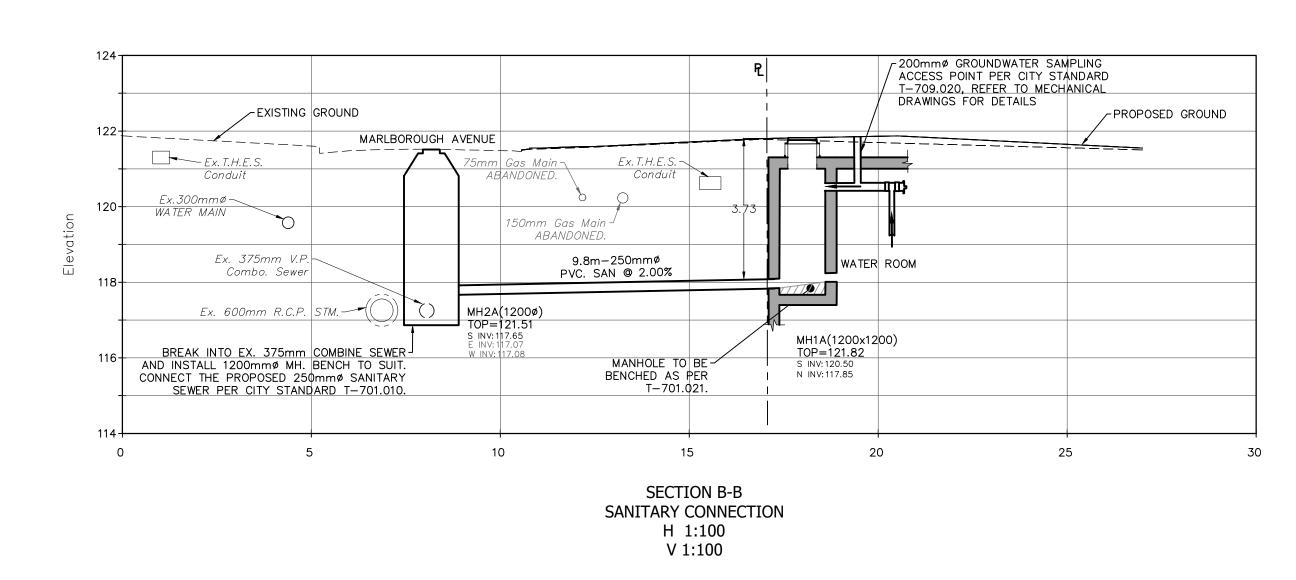
ASHRAF HANNA, P.ENG., MANAGER, DEVELOPMENT ENGINEERING

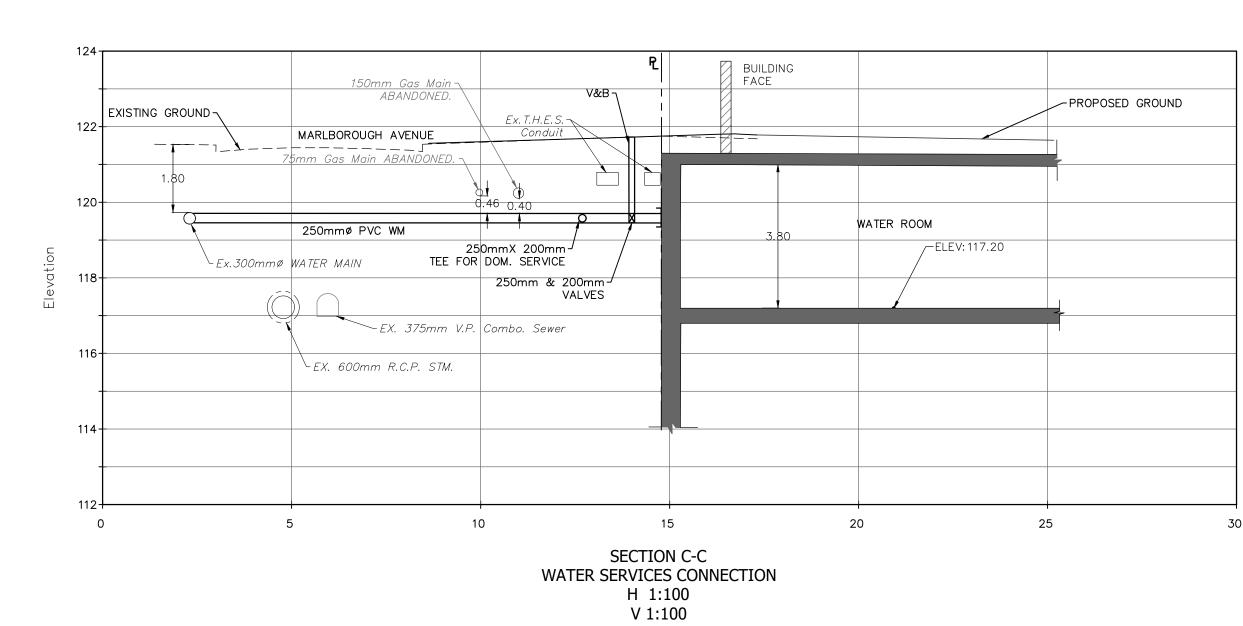
1140 YONGE STREET TORONTO, ONTARIO

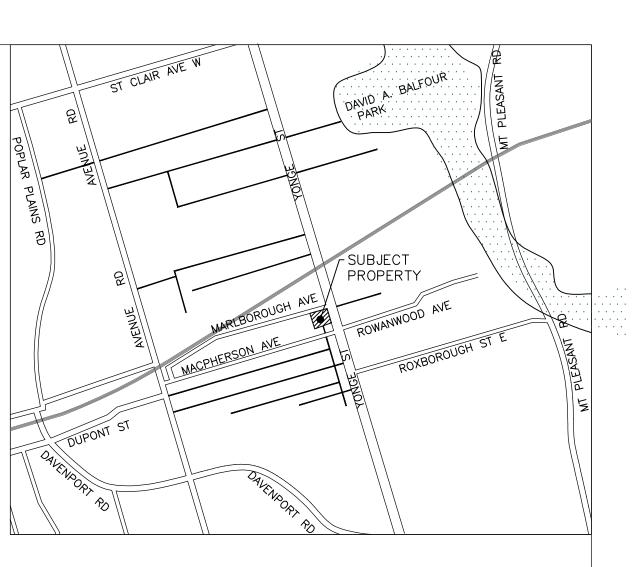
## EROSION AND SEDIMENT CONTROL PLAN

DESIGN:	MA	DRAWN:	MA	CHECKED:	RS	CONTRACT No:	18072
SCALE:	1:200		CITY DRAWING NUMBER:			DRAWING NUMBER:	
DATE: AUGUST 2019					ESC -1		





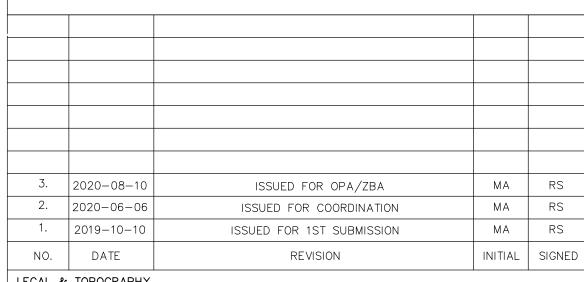




LEGEND

1. MEASUREMENTS IN METERS AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN.

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LAND SURVEY GROUP INC.
777 THE QUEENSWAY, UNIT 1, TORONTO,
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DATED: SEP. 18, 2017

BENCHMARK
ELEVATIONS ARE CEC

ELEVATIONS ARE GEODETIC AND REFERRED TO THE CITY OF TORONTO DATUM.
BENCHMARK No. CT-845, ELEVATION OF 122.193m



**TORONTO** ENGINEERING & CONSTRUCTION SERVICES

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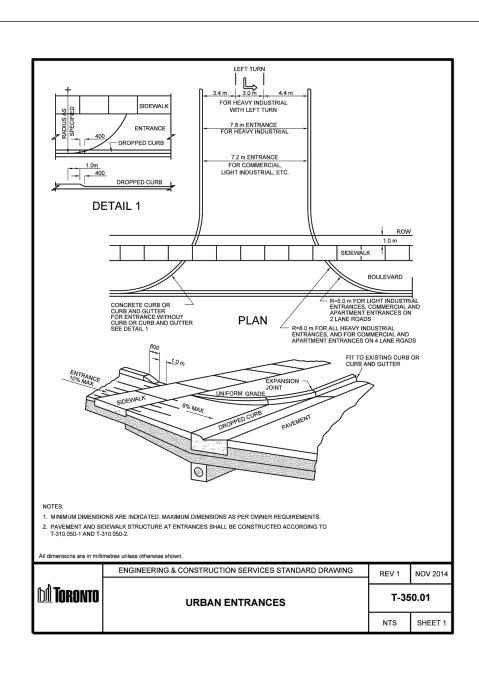
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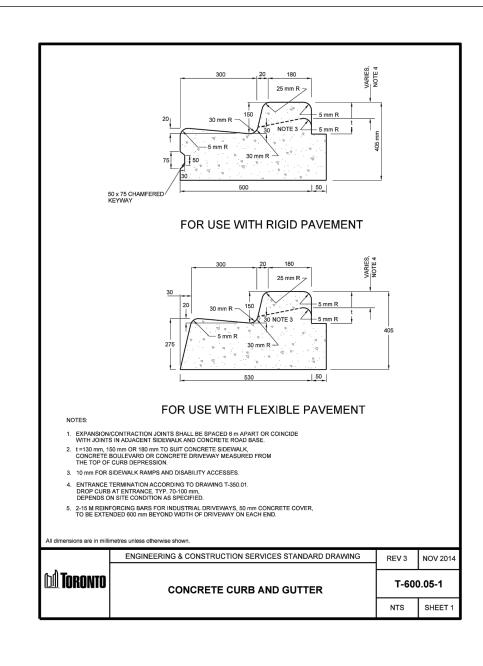
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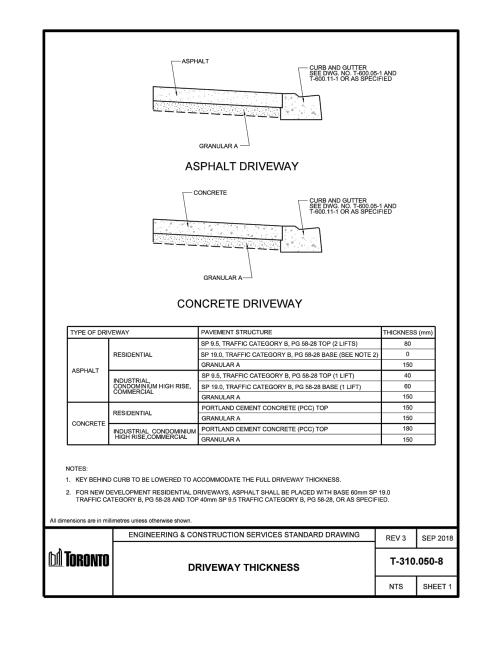
# 1140 YONGE STREET TORONTO, ONTARIO

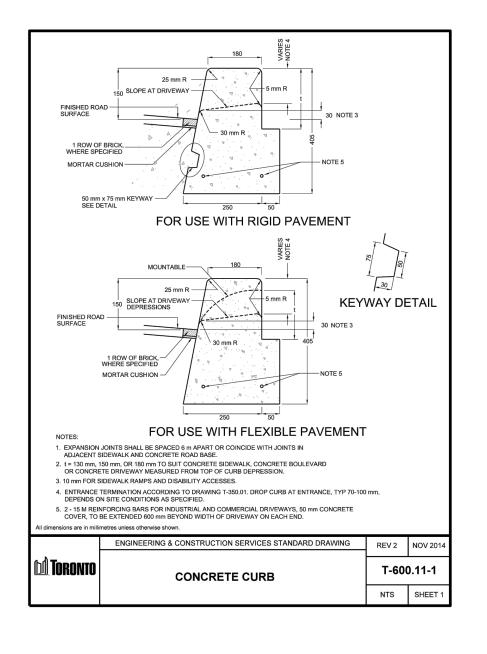
# SECTION PLAN

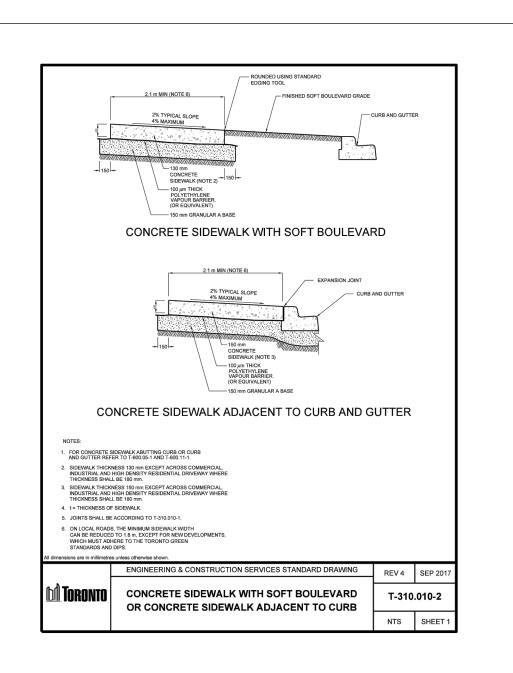
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SCALE:	H 1:100 V 1:100		CITY DRAWING NUMBER:			DRAWING NUMBER:	
DATE:	AUGUST 2	019					SEC-1

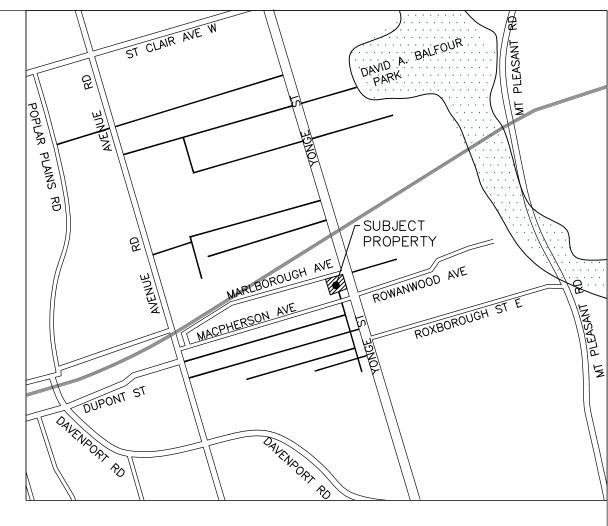


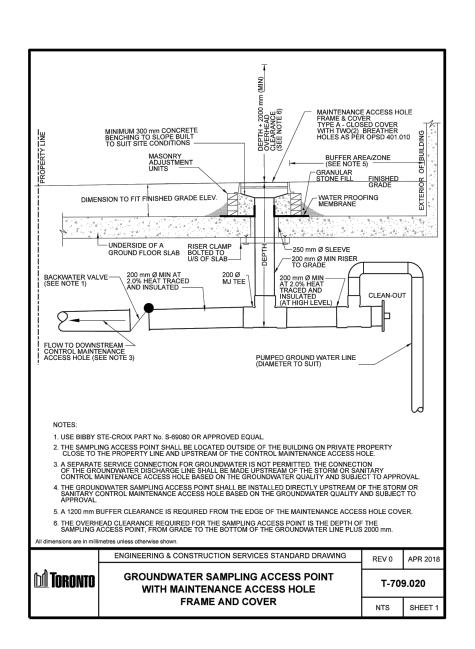












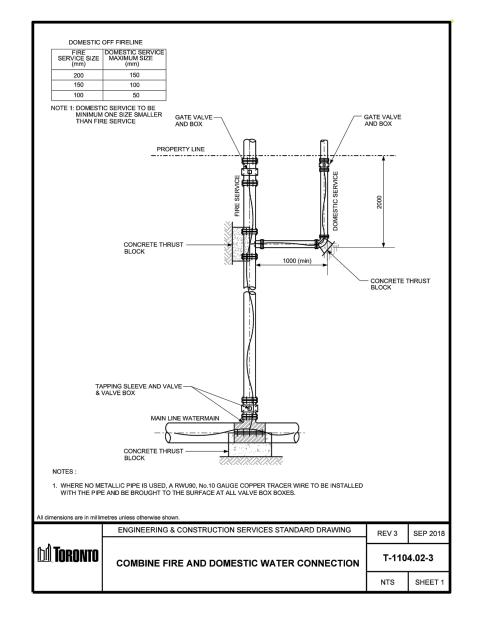
300 mm, TYP.

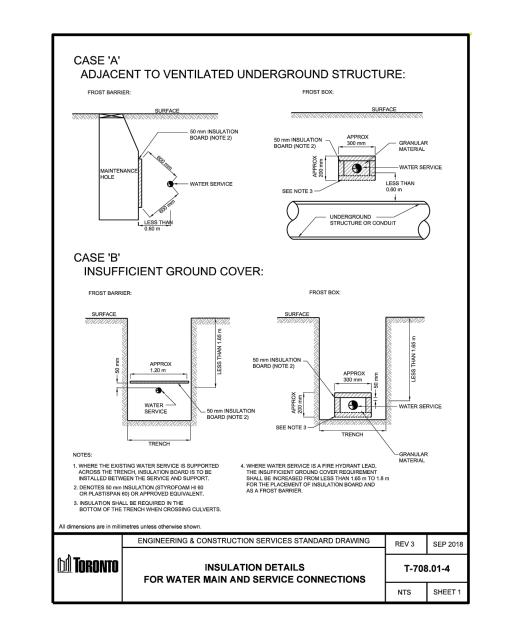
THE SUMP IS MEASURED FROM THE LOWEST INVERT.

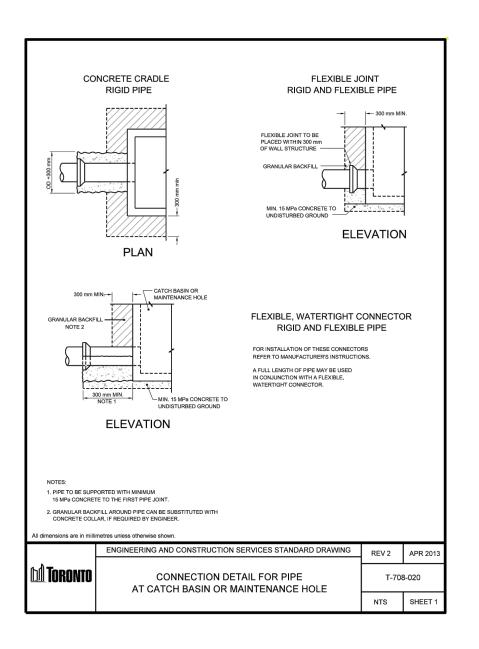
2. 150 mm OF COMPACTED GRANULAR A OR UNSHRINKABLE FILL TO BE PLACED ALL AROUND THE MAINTENANCE HOLE.

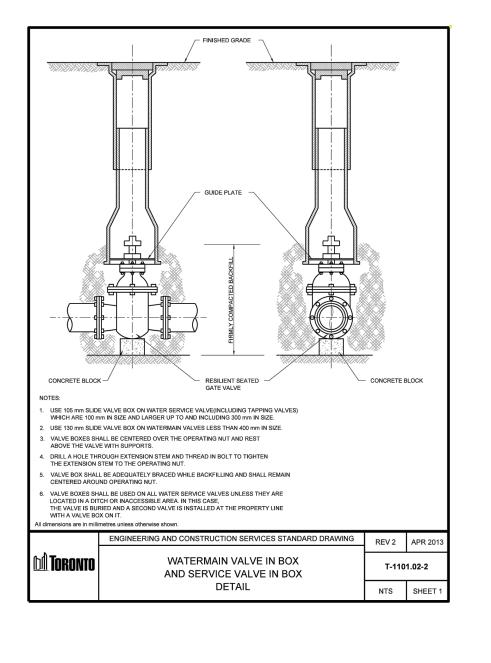
PRECAST CONCRETE COMPONENTS ACCORDING TO OPSD 701.030, OPSD 701.031 AND OPSD 701.032.

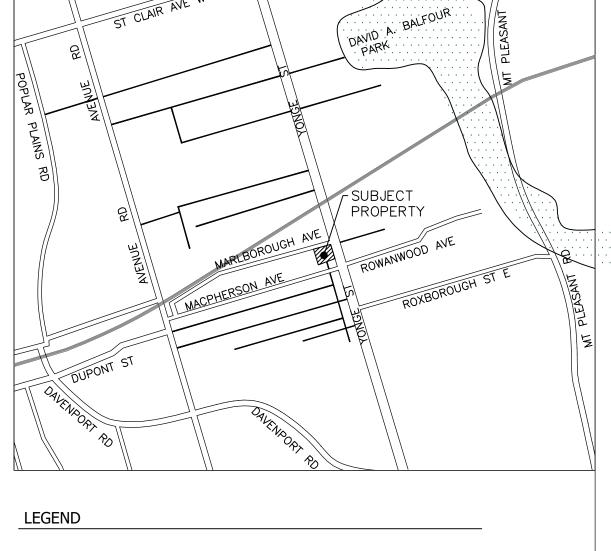
B PRECAST SLAB BASE

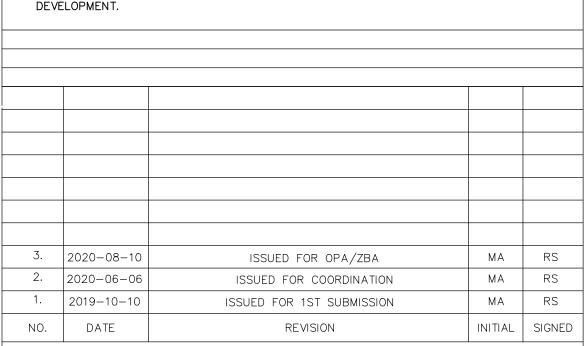












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OR PRIVATELY HELD INFRASTRUCTURE WITHIN OR ADJACENT TO THE SUBJECT

THIRD PARTIES ARE RESPONSIBLE FOR OBTAINING THEIR OWN LOCATES FOR ANY PUBLICLY

OVERHEAD UTILITIES. VARIOUS UTILITIES CONCERNED TO BE GIVEN REQUIRED ADVANCE

RESPONSIBILITY FOR THE ACCURACY OF THE LOCATION OF EXISTING UTILITIES AS INDICATED

<u>LEGAL & TOPOGRAPHY</u> PROVIDED BY: LAND SURVEY GROUP INC. 777 THE QUEENSWAY, UNIT 1, TORONTO, ONTARIO, M8Z 1N4 DATED: SEP. 18, 2017

ON THIS DRAWING.

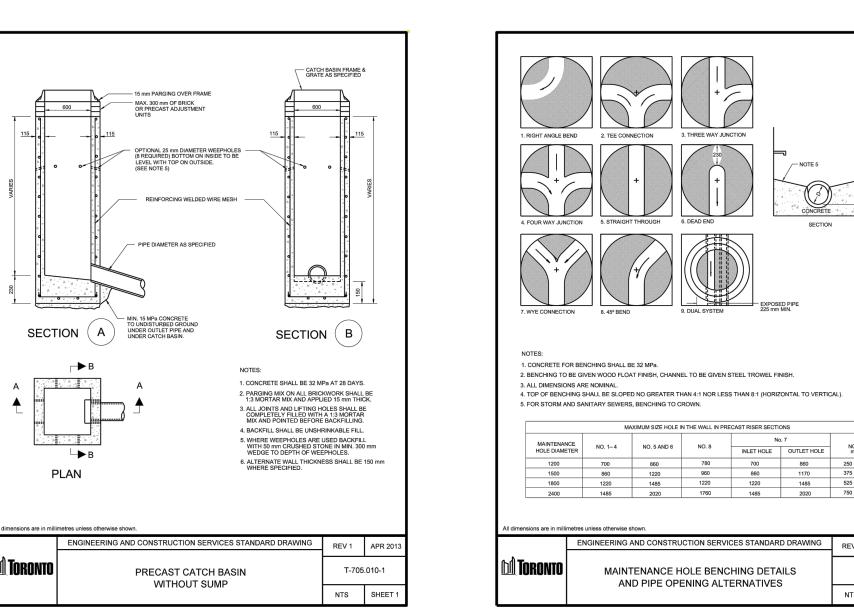
<u>BENCHMARK</u> ELEVATIONS ARE GEODETIC AND REFERRED TO THE CITY OF TORONTO DATUM. BENCHMARK No. CT-845, ELEVATION OF 122.193m

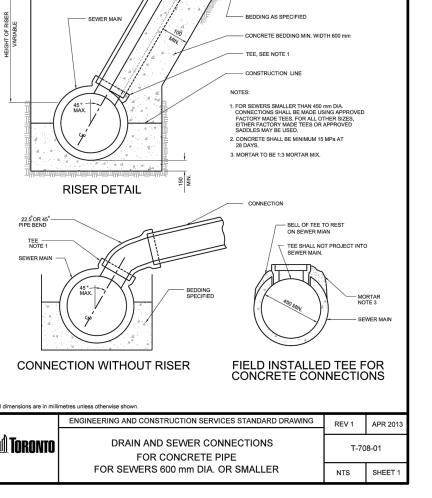
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**TORONTO** ENGINEERING & CONSTRUCTION SERVICES ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS





UNDISTURBED GROUND

22.5°or 45° —— PIPE BEND

BACKFILL AS SPECIFIE

