

CONSTRUCTION NOTES

GENERAL NOTES

1. THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND PREVENT CONSTRUCTION CONFLICTS.
2. THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS. THE INFORMATION IS SHOWN FOR GENERAL INFORMATION ONLY AND THE ACCURACY OR COMPLETENESS OF THE PROVIDED INFORMATION HAS NOT BEEN CONFIRMED BY COUNTERPOINT ENGINEERING INC. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. ANY VARIANCE IS TO BE IMMEDIATELY REPORTED TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
3. THIS PLAN SHOULD BE READ IN CONJUNCTION WITH ALL OTHER CONSULTANTS PLANS. ANY DISCREPANCIES SHALL BE CLARIFIED PRIOR TO CONSTRUCTION. INFORMATION RELATED TO DIMENSIONS FOR PRIVATE ROADS, PARKING, CURBING, BUILDING LOCATION AND SETBACKS SHALL BE TAKEN FROM THE SITE PLAN PREPARED BY THE SITE ARCHITECT.
4. INSPECTIONS: ALL WORK IN THE MUNICIPAL RIGHT OF WAY AND EASEMENTS IS TO BE INSPECTED BY THE CITY PRIOR TO BACKFILLING. ALL WORK RELATING TO WATERMANS AND SEWERS TO BE INSPECTED BY THE CITY AS PER THE SITE PLAN AGREEMENT.
5. ALL DISTURBED GRASSED AREAS TO BE RESTORED WITH MINIMUM 150mm TOPSOIL AND No. 1 NURSERY SOD.
6. A MINIMUM HORIZONTAL CLEARANCE OF 1.0m SHALL BE MAINTAINED BETWEEN ALL ABOVE GROUND SERVICES AND UTILITIES.
7. THE CONTRACTOR SHALL NOTIFY THE CITY A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, UNLESS OTHERWISE NOTED HEREON OR PURSUANT TO CONDITIONS OF PERMIT APPROVALS. WHERE APPLICABLE, THE CONTRACTOR SHALL OBTAIN CITY ROAD OCCUPANCY PERMIT A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
8. ALL DIMENSIONS AND ELEVATIONS TO BE VERIFIED PRIOR TO CONSTRUCTION AND ANY DISCREPANCIES FOUND PRIOR TO OR DURING CONSTRUCTION SHALL BE CLARIFIED WITH THE ENGINEER.
9. ALL TRENCHING SHALL BE IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT. TRENCH SIDES SHALL BE FLATTENED IN ACCORDANCE WITH DIRECTIONS FROM THE GEOTECHNICAL ENGINEER. CONSTRUCTION OF SHORING, BRACING AND PROTECTION SCHEMES SHALL CONFORM TO OPSS 538 & 539.
10. ALL TRAFFIC CONTROL AND SIGNAGE SHALL BE IN ACCORDANCE WITH MTO'S "ONTARIO TRAFFIC MANUAL".

GRADING NOTES

1. ALL DISTURBED GRASSED AREAS OUTSIDE OF PROPERTY LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER, WITH SOD ON MINIMUM 100mm TOPSOIL. ALL TREE AND SHRUB RELOCATION SUBJECT TO APPROVAL BY THE LANDSCAPE ARCHITECT.
2. ALL UNSUITABLE SOIL OR SURPLUS MATERIAL OBTAINED FROM EXCAVATIONS TO BE DISPOSED OF OFF-SITE TO AN APPROVED DISPOSAL FACILITY THAT MEETS ALL ENVIRONMENTAL REGULATIONS AND GUIDELINES.
3. EXCEPT WHERE INDICATED, ALL DIFFERENCES IN GRADE BETWEEN THIS SITE AND ADJOINING LANDS ARE TO BE TAKEN UP ON OWNER'S LAND WITH A MAXIMUM SLOPE OF ONE (1) VERTICAL AND THREE (3) HORIZONTAL, SODDED AND/OR PAVED.
4. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING VEGETATION AND TREE PRESERVATION HOARDING IN AN APPROVED AND FUNCTIONING CONDITION AS REQUIRED.

CONFORMANCE REQUIREMENTS

1. THE FOLLOWING ITEMS ARE TO BE PROVIDED TO COUNTERPOINT NO LESS THAN 10 WORKING DAYS PRIOR TO THE REQUEST FOR A LETTER OF GENERAL CONFORMANCE/FINAL CERTIFICATION. THE DOCUMENTS MUST INDICATE THAT THE SITE HAS BEEN CONSTRUCTED IN GENERAL CONFORMANCE WITH THE APPROVED DESIGN:
 - AS-CONSTRUCTED TOPOGRAPHIC/UNDERGROUND SURVEY COMPLETED BY A REGISTERED LAND SURVEYOR AS PER THE SPECIFICATIONS OUTLINED WITHIN THE CONTRACT DOCUMENT;
 - GEOTECHNICAL ENGINEER CERTIFICATION LETTER, WHICH INCLUDES SUB-GRADE COMPACTION RESULTS, BEDDING AND BACKFILL COMPACTION AND MATERIAL ACCEPTANCE, GRANULAR, ASPHALT, SITE CONCRETE MATERIAL ACCEPTANCE AND COMPACTION RESULTS;
 - CCTV INSPECTION OF FLUSHED STORM AND SANITARY PIPES AND STRUCTURES;
 - AIR/MANDREL TEST RESULTS FOR SANITARY SEWER (IF REQUIRED);
 - WATERMAIN PRESSURE, CHLORINATION AND BACTERIAL TEST RESULTS AND MUNICIPAL APPROVAL IF AVAILABLE.
2. SHOULD THE SUBMITTED MATERIALS INDICATE NON-CONFORMANCE OR DEFICIENCIES, THEY MUST BE ADDRESSED TO COUNTERPOINT'S SATISFACTION WITH AN UPDATED SUBMITTAL PRIOR TO ISSUANCE OF A LETTER OF GENERAL CONFORMANCE/FINAL CERTIFICATION.
3. COUNTERPOINT MUST ALSO COMPLETE ALL NECESSARY SITE INSPECTIONS AS OUTLINED IN THE APPROVED SERVICE PROGRAM, WITH ALL DEFICIENCIES ADDRESSED TO COUNTERPOINT'S SATISFACTION.

STORM SEWER

1. ALL STORM MANHOLES TO BE AS PER OPSD 701.010 TO 701.015 (SIZE AS SHOWN) WITH FRAME AND COVER AS PER OPSD 401.010 TYPE 'A'. SAFETY PLATFORMS TO BE INSTALLED IN ALL MANHOLES WHERE DEPTHS EXCEED 5.0m AS PER OPSD 404.020.
2. ALL CATCH BASINS TO BE PRECAST AS PER OPSD 705.010 WITH FRAME AND GRATE AS PER OPSD 400.020 UNLESS OTHERWISE SPECIFIED ON PLANS. PERFORATED SUBDRAINS SHALL BE CONSTRUCTED AND CONNECTED TO INTERNAL CATCHBASINS AND CATCHBASIN MANHOLES IN A QUADRANT FORMATION. THESE SHALL EXTEND AT LEAST 3.0m IN ALL DIRECTIONS EXCEPT IN THE BOULEVARD AREAS. THE CONTRACTOR IS TO ENSURE POSITIVE DRAINAGE IN THE SUBDRAINS.
3. ALL SINGLE CATCH BASIN LEADS TO BE 250mmØ PVC SDR-35 OR ULTRA-RIB AS PER CSA B182.1, B182.2, B182.4 UNLESS OTHERWISE SPECIFIED ON PLANS. ALL DOUBLE CATCH BASIN LEADS TO BE 300mmØ PVC SDR-35. ALL CATCH BASIN LEADS INVERTS TO BE A MINIMUM 1.5m BELOW FINISHED GRADE AND SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1.00% UNLESS OTHERWISE SPECIFIED ON PLANS.
4. A MINIMUM COVER OF 1.2m (FROM PROPOSED ELEVATION) IS REQUIRED TO THE TOP OUTSIDE EDGE OF THE PIPE BARREL FOR STORM SEWERS.
5. DROP STRUCTURES SHALL BE PROVIDED WHERE THE DIFFERENCE IN OBVERT ELEVATIONS EXCEEDS 1.20m. ALL DROP STRUCTURES SHALL BE AS PER CITY OF MISSISSAUGA STANDARD DRAWING 2113.010.
6. ALL MAIN STORM SEWERS UP TO 375mm DIA. SHALL BE PVC SDR-35 OR EQUIVALENT APPROVED BY THE ENGINEER. PVC SEWER SHALL MEET THE CSA AND ASTM REQUIREMENTS AS NOTED WITHIN OPSS 1841 (MINIMUM 320KPa). ALL STORM SEWERS 450mm OR LARGER SHALL BE REINFORCED CONCRETE SEWER (CLASS 65-D UNLESS OTHERWISE INDICATED) IN ACCORDANCE WITH CSA SPECIFICATION A257.1-M92. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ADDITIONAL BEDDING AND/OR STRONGER PIPE IF ACTUAL TRENCH WIDTHS EXCEED DESIGN WIDTHS. RIGID PIPE REQUIRES CONCRETE ENCASUREMENT FOR THE FIRST PIPE LENGTH CONNECTING TO ANY APPURTENANCES.
7. SERVICES TO BUILDINGS SHALL BE TERMINATED 1.5m FROM THE BUILDING ENVELOPE UNLESS OTHERWISE NOTED. PROVIDE PERMANENT CAP (TO BE REMOVED BY BUILDING CONTRACTOR AT TIME OF BUILDING CONNECTION).
8. "MODULOC" OR APPROVED PRE-CAST MANHOLE AND CATCH BASIN ADJUSTERS TO BE USED IN LIEU OF BRICKING. PARGE ADJUSTING UNITS ON THE OUTSIDE ONLY.
9. THE CONTRACTOR SHALL FLUSH AND PROVIDE CCTV CAMERA INSPECTIONS OF ALL STORM SEWERS, INCLUDING PICTORIAL REPORT, AND TWO (2) CD'S IN A FORMAT ACCEPTABLE TO THE ENGINEER, PRIOR TO TOPCOAT ASPHALT.
10. ALL BENCHING SHALL BE AS PER OPSD 701.021

WATERMAIN AND SANITARY SEWER

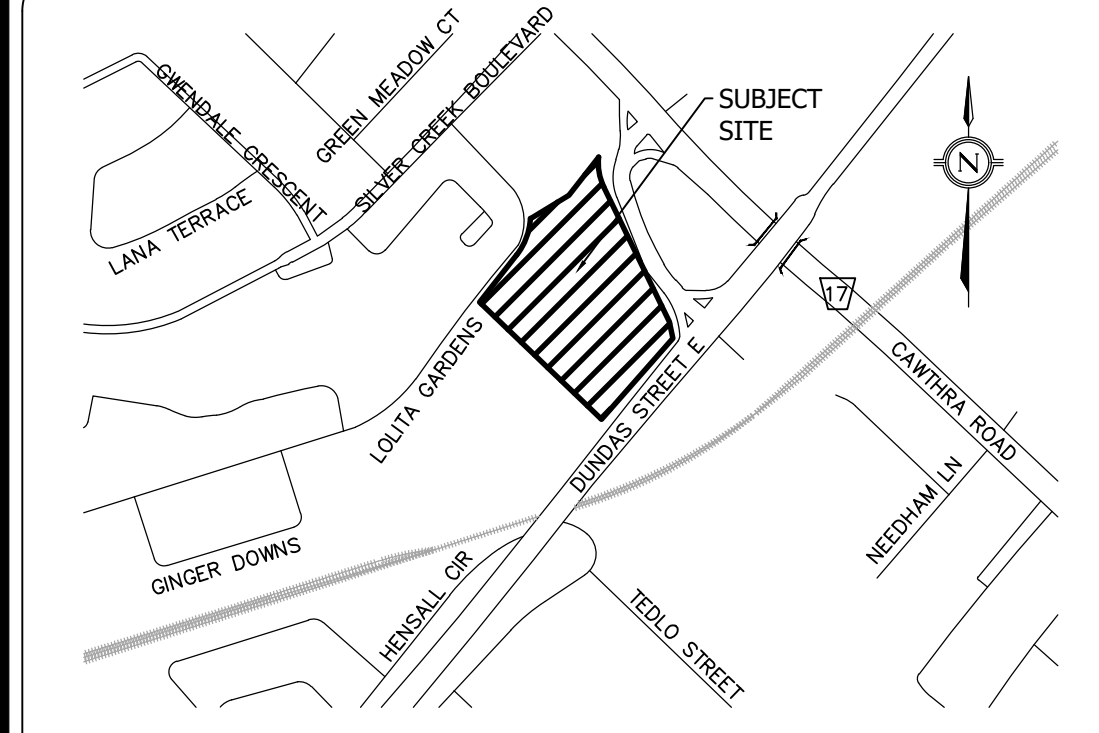
1. WATERMAIN 100 TO 300mmØ SHALL BE AWWA C-900-97 POLYVINYL CHLORIDE (PVC) CLASS 150 DR-18 AND CSA CANS B137.3-02 WITH GASKETED BELL END, A 12 GAUGE TWU STRANDED COPPER, LIGHT COLOURED, PLASTIC COATED TRACER WIRE MUST BE INSTALLED WITH THE PIPE AND BROUGHT TO THE SURFACE AT EACH VALVE BOX AND EACH HYDRANT. TRACER WIRE IS TO BE ATTACHED TO THE PIPE AND THE OUTSIDE OF EACH VALVE BOX BY MEANS OF FIBRE TAPE AT 3.0m INTERVALS. AT VALVE BOXES, TRACER WIRE SHALL BE LOOPED THROUGH A HOLE IN THE SIDE OF THE VALVE BOX AS PER REGION OF PEEL STANDARD DRAWING 1-3-11. AT HYDRANTS, TRACER WIRE SHALL BE LOOPED AROUND THE BASE OF THE HYDRANT.
2. ALL BENDS, TEES, JOINTS, ETC., ARE TO BE RESTRAINED WITH THRUST BLOCKS AS PER REGION OF PEEL STANDARD DRAWINGS 1-5-4, 1-5-5, 1-5-6, AND 1-5-7.
3. WATERMANS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM HORIZONTAL SPACING OF 3.0m FROM SAN/STM AND 1.2m FROM THEMSELVES AND ALL OTHER SERVICES AND UTILITIES. ANY JOINT DEFLECTION SHALL BE 50% OF MANUFACTURER'S SPECIFICATIONS. PIPE BARREL DEFLECTION IS PROHIBITED FOR PVC PIPE.
4. WATERMANS SHALL BE INSTALLED AT A MINIMUM COVER OF 1.70m FROM PROPOSED GRADES AND MUST BE MAINTAINED AT ALL TIMES. A MINIMUM OF 0.50m VERTICAL CLEARANCE BETWEEN WATERMAIN AND ALL UTILITIES MUST BE KEPT, WHILE STILL MAINTAINING A MINIMUM DEPTH OF COVER AT ALL TIMES. DEFLECT WATERMAIN WHERE REQUIRED TO AVOID CONFLICTS WITH OTHER SERVICES ACCORDING TO DETAIL ON DRAWING SW-DT1.
5. ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A 50mm PLUG AND BLOW OFF.
6. HYDRANT INSTALLATION SHALL BE AS PER REGION OF PEEL STANDARD DRAWINGS 1-6-1 AND 1-6-2. THE CONTRACTOR IS TO CERTIFY IN WRITING TO THE ENGINEER/OWNER THAT THE HYDRANTS HAVE BEEN TESTED IN ACCORDANCE WITH CITY OF MISSISSAUGA, OPSD AND LOCAL FIRE DEPARTMENT STANDARDS, AND THAT THEY ARE FULLY OPERATIONAL. PUMPER NOZZLE IS TO FACE THE FIRE ROUTE. HYDRANTS SHALL HAVE MINIMUM 1.2m HORIZONTAL CLEARANCE FROM ALL OTHER UTILITIES.
7. PRIVATE FIRE HYDRANTS SHALL BE FLOW TESTED AND COLOUR CODED IN CONFORMANCE WITH LOCAL REQUIREMENTS.
8. ALL HYDRANTS SHALL BE PERPENDICULAR TO FACE OF BUILDING, AND FLANGE ELEVATIONS SHALL BE INSTALLED MIN. 0.05m / MAX. 0.15m ABOVE PROPOSED FINISHED GRADE AT HYDRANT.
9. ALL METALLIC FITTINGS SHALL BE CATHODICALLY PROTECTED PER GEOTECHNICAL RECOMMENDATIONS AND INCLUDE PETROLATUM PRIMER (PASTE), PETROLATUM MouldING MASTIC, AND LOW TEMPERATURE PETROLATUM TAPE PER REGION OF PEEL STANDARDS.
10. ALL WATERMANS SHALL BE BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH ALL LOCAL MUNICIPAL, REGIONAL AND PROVINCIAL REQUIREMENTS. DISPOSAL OF CHLORINATED WATER TO BE IN ACCORDANCE WITH MUNICIPAL REQUIREMENTS.
11. ALL SANITARY SEWERS SHALL BE PVC (SDR 35) MEETING CSA 182.6. FITTINGS FOR PVC SANITARY SEWER PIPE SHALL BE MANUFACTURED IN ACCORDANCE WITH A.S.T.M. SPECIFICATION D 3034 AND JOINTS SHALL BE BELL AND SPIGOT WITH RUBBER GASKETS.
12. SANITARY MANHOLES SHALL BE AS PER REGION OF PEEL STANDARD DRAWING 2-2-1. FRAME COVER SHALL BE PER REGION OF PEEL STANDARD DRAWING 2-2-2 OR 2-2-3 IF WITHIN THE FONDING LIMITS IDENTIFIED IN THE GRADING PLAN. SAFETY PLATFORMS TO BE INSTALLED IN ALL MANHOLES WHERE DEPTHS EXCEED 5.0m AS PER REGION OF PEEL STANDARD DRAWING 2-2-1.
13. SANITARY DROP STRUCTURES SHALL BE PROVIDED WHERE THE DIFFERENCE IN INVERT ELEVATIONS EXCEEDS 0.90m. ALL SANITARY DROP STRUCTURES SHALL BE AS PER REGION OF PEEL STANDARD DRAWING 2-1-5.
14. ALL BUILDING SERVICES SHALL BE CAPPED AND MARKED WITH A 2x4 PAINTED GREEN (SANITARY), BLUE (WATERMAIN), AND WHITE (STORM). THE 2x4 SHALL EXTEND 0.6m ABOVE GRADE.
15. MANHOLE STEPS TO BE CONSTRUCTED AS PER OPSD 405.010.
16. SERVICES TO BUILDINGS SHALL BE TERMINATED 1.5m FROM THE BUILDING ENVELOPE UNLESS OTHERWISE NOTED. PROVIDE PERMANENT CAP (TO BE REMOVED BY BUILDING CONTRACTOR AT TIME OF BUILDING CONNECTION).
17. THE CONTRACTOR SHALL FLUSH AND PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY SEWERS, INCLUDING PICTORIAL REPORT, AND TWO (2) CD'S IN A FORMAT ACCEPTABLE TO THE ENGINEER, PRIOR TO TOPCOAT ASPHALT.

REGION OF PEEL STANDARD WATERMAIN NOTES

1. ALL MATERIALS AND CONSTRUCTION METHODS MUST CONFORM TO THE CURRENT PEEL PUBLIC WORKS STANDARDS AND SPECIFICATIONS.
2. WATERMAIN AND/OR WATER SERVICE MATERIALS 100mm (4") AND LAGER MUST BE AWWA C-900 POLYVINYL CHLORIDE (PVC), DR-18. SIZE 50mm (2") AND SMALLER MUST BE TYPE "K" COPPER.
3. ALL WATERMANS AND WATER SERVICES TO HAVE MINIMUM 1.7M COVER WITH A MINIMUM HORIZONTAL SEPARATION OF 1.2M FROM ANY OTHER UTILITIES.
4. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING MUST BE PROVIDED WITH AT LEAST A 50MM OUTLET ON 100MM AND LARGER. COPPER LINES ARE TO HAVE FLUSHING POINTS AT THE END, THE SAME SIZE AS THE LINE. THEY MUST BE HOSED OR PIPED TO ALLOW THE WATER TO DRAIN ONTO A PARKING LOT OR DOWN A DRAIN. ON FIRE LINES, FLUSHING OUTLET TO BE 100MM DIA. MIN. ON A HYDRANT.
5. ALL CURB STOPS TO BE 3.0M OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.
6. HYDRANTS AND VALVE SET TO REGION STANDARD 1-6-1 DIMENSION A AND B, 0.7M AND 0.9M AND TO HAVE PUMPER NOZZLE.
7. WATERMANS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30M OVER/0.50M UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.
8. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.
9. PRIVATE FIRE HYDRANTS SHALL BE FLOW TESTED AND COLOR CODED IN CONFORMANCE WITH THE REGION OF PEEL "UNIFORM MARKING OF HYDRANTS".
10. WATERMAIN BEDDING TO BE LIMESTONE SCREENING UP TO 150MM ABOVE THE TOP OF THE PIPE AS PER REGION STANDARD 1-5-1 AND BACKFILL TO BE COMPACTED ALL TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
11. ALL LIVE TAPPING AND OPERATION OF REGION WATER VALVES SHALL BE ARRANGED THROUGH THE REGIONAL INSPECTOR ASSIGNED OR BY CONTACTING THE OPERATIONS AND MAINTENANCE DIVISION.

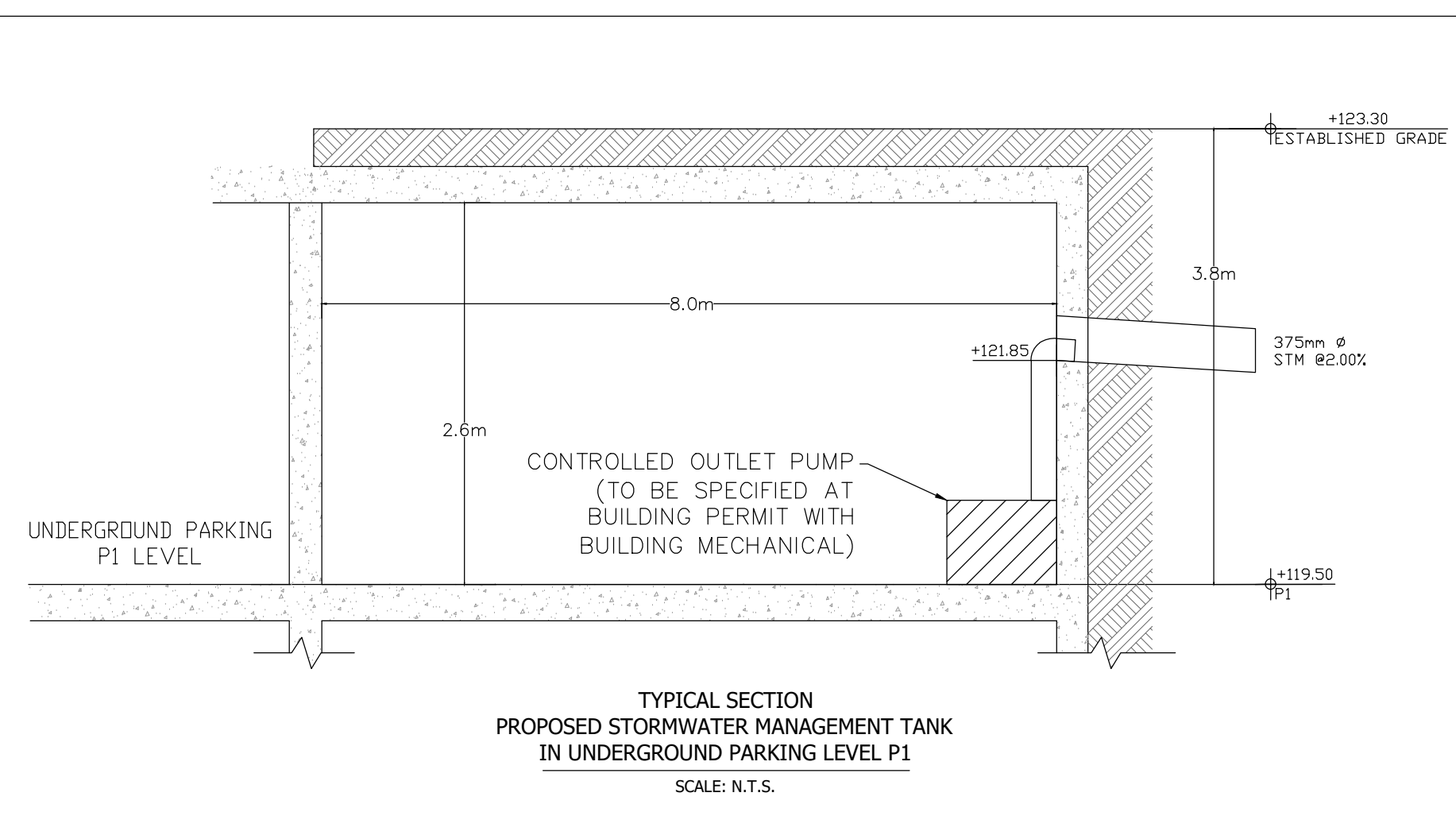
OTHER REGION OF PEEL NOTES

1. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.
2. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING ALL UNDERGROUND AND OVERHEAD UTILITIES AND STRUCTURES EXISTING AT THE TIME OF CONSTRUCTION IN THE AREA OF HIS WORK. WHETHER SHOWN ON THE PLANS OR NOT, AND FOR ALL REPAIRS AND CONSEQUENCES RESULTING FROM DAMAGE TO SAME.
3. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE TO GIVE 72 HOURS WRITTEN NOTICE TO UTILITIES PRIOR TO CROSSING SUCH UTILITIES, FOR THE PURPOSE OF INSPECTION BY THE CONCERNED UTILITY. THIS INSPECTION WILL BE FOR THE DURATION OF CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.



KEY PLAN

LEGEND



LEGAL & TOPOGRAPHY

PROVIDED BY: SPEIGHT, VAN NOSTRAND & GIBSON
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TORONTO, ON M3J 2Z4
PHONE: 416-749-7864

ELEVATION NOTE
ELEVATIONS ARE GEODETIC AND ARE DERIVED FROM THE CITY OF MISSISSAUGA BENCHMARK No. 94

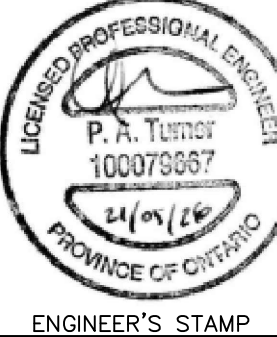
LOCATION: ON THE EAST FACE OF THE EAST PARAPET WALL OF THE EAST STEPS OF THE ST. JOHN THE BAPTIST, ANGLICAN CHURCH ON THE NORTH SIDE OF DUNDAS ST. EAST (HIGHWAY NO.5), 200' EAST OF CAWTHRA ROAD.

ELEVATION:
PUBLISHED ELEVATION = 126.861

No.	REVISIONS/ISSUED	DATE	BY	CITY
3.	ISSUED FOR REZONING/1st SPA SUBMISSION	2021/05/26	PT	
2.	ISSUED FOR RE-ZONING APPROVAL-2nd SUBMISSION	2020/08/14	PT	
1.	ISSUED FOR RE-ZONING APPROVAL	2019/07/19	PT	

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16 ESNA PARK DRIVE SUITE 200
MARKHAM, ONTARIO
PHONE: (905) 940-0310

SITE LOCATION:
600-620 LOLITA GARDENS
MISSISSAUGA, ONTARIO

NOTES AND DETAILS

DESIGNED BY: ES	CHECKED BY: PT	DATE: JULY 2019
DRAWING BY: ES	CHECKED BY: PT	PROJECT NO. 18080
SWM BY: ES	CHECKED BY: PT	DRAWING NO. C3