GENERAL NOTES

SEDIMENT CONTROL MEASURES

A. PROTECT ALL EXPOSED SURFACES AND CONTROL ALL RUNOFF DURING CONSTRUCTION.

B. PROTECT ALL CATCH BASINS, MAINTENANCE HOLES AND PIPE ENDS FROM SEDIMENT INTRUSION WITH GEOTEXTILE (TERRAFIX 270R).

C. PREVENT WIND-BLOWN DUST.

D. KEEP ALL SUMPS CLEAN DURING CONSTRUCTION.

E. ALL OF THE ABOVE NOTES AND ANY SEDIMENT AND EROSION CONTROL MEASURES ARE AT A MINIMUM TO BE IN ACCORDANCE WITH THE ONTARIO MINISTRY OF NATURAL RESOURCES GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES.

F. THE CONTRACTOR SHALL CONSTRUCT TEMPORARY MEASURES TO CONTROL SILT FROM ENTERING THE STORM DRAINAGE SYSTEM TO THE SPECIFICATIONS OUTLINED IN THE GUIDELINES ON EROSION AND SEDIMENT CONTROL FOR URBAN CONSTRUCTION SITES PREPARED BY THE ONTARIO MINISTRY OF NATURAL RESOURCES. THESE MEASURES ARE TO BE INSTALLED PRIOR TO COMMENCING ANY CONSTRUCTION FOR THIS PROJECT, AND ARE TO REMAIN IN PLACE UNTIL CONSTRUCTION HAS BEEN COMPLETED TO THE SATISFACTION OF THE CITY ENGINEER.

G. ALL WORK SHALL MEET AT A MINIMUM, STANDARDS AND SPECIFICATIONS OF THE CITY OF MISSISSAUGA.

H. THE CONTRACTOR IS RESPONSIBLE FOR CLEANUP OF MUDTRACKING ON A DAILY BASIS OR ON A MORE FREQUENT BASIS IF DIRECTED BY THE CITY OR THE ENGINEER. ANY TRACKING OF DELETERIOUS MATERIALS ALONG ANY ROADS/DRIVEWAYS AND OR OTHER PROPERTIES ASIDE FROM THE SITE SHALL BE MITIGATED IMMEDIATELY.

I. SILTATION CONTROL BARRIERS SHALL BE INSTALLED AS PER DETAILS.

J. ALL SILTATION CONTROL MEASURES SHALL BE CLEANED AND MAINTAINED WEEKLY (AS MINIMUM) AND AFTER EACH RAINFALL AS DIRECTED AND TO THE SATISFACTION OF THE CITY OF MISSISSAUGA AND THE ENGINEER.

K. ADDITIONAL SILT CONTROL LOCATIONS MAY BE REQUIRED AS DETERMINED BY THE CITY OF MISSISSAUGA.

L. IF BUILDING ACTIVITY DOES NOT COMMENCE WITHIN 45 DAYS AFTER CONSTRUCTION IS COMPLETED, ARRANGEMENTS SHALL BE MADE TO SEED ANY STRIPPED AREAS AND TOPSOIL STOCKPILES THAT ARE NOT COVERED BY VEGETATION AND MAINTAIN THEM UNTIL GROUND COVER IS ESTABLISHED.

M. SEDIMENTATION CONTROL MEASURES SHALL BE KEPT IN PLACE UNTIL SATISFACTORY GROUND COVER HAS BEEN ESTABLISHED AND ALL BUILDING ACTIVITY HAS BEEN COMPLETED.

GENERAL

A. ALL SERVICES SHALL BE INSTALLED AND TESTED TO THE CURRENT ONTARIO BUILDING CODE, CITY OF MISSISSAUGA STANDARDS (CITY STD.), REGION OF PEEL STANDARDS (REGION STD.), ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), AND ONTARIO PROVINCIAL STANDARD STANDARD SPECIFICATIONS (OPSS), UNLESS OTHERWISE SPECIFIED AND TO THE SATISFACTION OF THE CITY OF MISSISSAUGA, THE CIVIL ENGINEER, AND THE GEOTECHNICAL ENGINEER.

B. THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SATISFY HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, SHALL ADEQUATELY SUPPORT THEM, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION. ANY RELOCATION OF EXISTING UTILITIES REQUIRED BY THE DEVELOPMENT OF SUBJECT LANDS IS TO BE UNDERTAKEN AT THE CONTRACTOR'S EXPENSE.

C. THE CONTRACTOR MUST NOTIFY ALL EXISTING UTILITY COMPANY OFFICIALS FIVE (5) BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND HAVE ALL EXISTING UTILITIES AND SERVICES LOCATED IN THE FIELD OR EXPOSED PRIOR TO THE START OF CON- STRUCTION, INCLUDING BUT NOT LIMITED TO HYDRO, BELL, CABLE TV AND GAS LINES.

D. ALL TRENCHING TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. REFER TO GEOTECHNICAL REPORT FOR EXCAVATION RECOMMENDATIONS.

E. ALL TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THE SITE GEOTECHNICAL REPORT AND UNSHRINKABLE FILL IN THE RIGHT-OF-WAY.

F. ALL DISTURBED AREAS OUTSIDE OF THE PROPOSED GRADING LIMITS TO BE RESTORED TO ORIGINAL CONDITION. THE CONTRACTOR SHALL LIMIT CONSTRUCTION ACTIVITY ONLY TO WITHIN THE LIMITS OF THE CONSTRUTION SHOWN.

G. ALL DIMENSIONS AND ELEVATIONS IN METRES, PIPE SIZES IN MILLIMETRES.

H. CONTRACTOR SHALL SATISFY HIMSELF OF ALL GEOTECHNICAL INFORMATION AND RECOMMENDATIONS. BOREHOLE LOGS & GEOTECHNICAL REPORT. INDICATED THAT GROUNDWATER MAY BE ENCOUNTERED ON SITE. IF NECESSARY, A DEWATERING SYSTEM MAY BE REQUIRED DURING CONSTRUCTION OF UNDERGROUND SERVICES.

I. CONSTRUCTION VEHICLES ENTERING/EXITING THE SITE SHALL BE VIA CONFEDERATION PARKWAY UNLESS APPROVED OTHERWISE.

J. THE TOPSOIL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE STRIPPED AND REMOVED FROM SITE. CONTRACTOR MAY REUSE TOPSOIL FOR SITE-LANDSCAPING PURPOSES IF THE CONTRACTOR PROVIDES TEST RESULTS WHICH ILLUSTRATE THE TOPSOIL MEETS LANDSCAPE SPECIFICATIONS.

K. EACH AND EVERY FOOTING BASE MUST BE FIELD REVIEWED AND ACCEPTED IN WRITING BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE. THIS FIELD REVIEW IS REQUIRED UNDER SECTION 4.2.2.3 OF THE ONTARIO BUILDING CODE.

L. ALTERNATIVE MATERIALS MAY BE ACCEPTABLE, PROVIDED APPROVAL HAS FIRST BEEN OBTAINED FROM THE CITY/CITY ENGINEER.

M. NO BLASTING IS PERMITTED.

N. CONTRACTOR TO EXPOSE AND VERIFY LOCATION, ELEVATION, AND SIZE OF EXISTING PIPES. IF THERE ARE ANY DISCREPANCIES CONTRACTOR IS TO NOTIFY THE ENGINEER 48 HOURS PRIOR TO CONSTRUCTION.

O. MAINTAIN TRAFFIC ON MUNICIPAL ROADS AT ALL TIMES. ALL EXISTING SERVICES ARE TO REMAIN IN SERVICE AT ALL TIMES DURING CONSTRUCTION (UNLESS OTHERWISE NOTED).

P. AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION FOR SERVICES WITHIN A MUNICIPAL RIGHT-OF-WAY AND/OR MUNICIPAL EASEMENTS THE CONTRACTOR IS TO OBTAIN A PERMIT OF APPROVED WORK FROM THE CITY.

Q. CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPE CONTRACTOR FOR PLANTING BED LOCATIONS AND CORRESPONDING SUBGRADE ELEVATIONS.

R. ALL SITE LAYOUT INFORMATION, INCLUDING BUILDING DIMENSIONS, SETBACKS, CURBS, DEPRESSED CURB LOCATIONS, SIDEWALKS, PARKING AND LANDSCAPE FEATURES MUST BE REFERENCED FROM THE ARCHITECT'S PLANS.

S. ALL SURFACE DRAINAGE WILL BE SELF-CONTAINED , COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

T. ALL EXCESS EXCAVATED MATERIAL WILL BE REMOVED FROM THE SITE.

U. THE EXISTING DRAINAGE PATTERN WILL BE MAINTAINED EXCEPT WHERE NOTED.

V. THE APPLICANT WILL BE REQUIRED TO CONTACT ALL UTILITY COMPANIES TO OBTAIN ALL REQUIRED LOCATES PRIOR TO THE INSTALLATION OF HOARDING WITHIN THE MUNICIPAL RIGHT OF WAY.

W. THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF ANY UTILITY RELOCATIONS NECESSITATED BY THE SITE PLAN.

X. PRIOR TO CONSTRUCTION TAKING PLACE, ALL REQUIRED HOARDING IN ACCORDANCE WITH THE ONTARIO OCCUPATIONAL HEALTH & SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS MUST BE ERECTED AND THEN MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.

Y. SHOULD ANY WORKS BE REQUIRED WITHIN THE MUNICIPAL RIGHT OF WAY, A ROAD OCCUPANCY PERMIT WILL BE REQUIRED. PUCC APPROVAL WILL BE REQUIRED. FOR FURTHER INFORMATION, PLEASE CONTACT THE PUCC / PERMIT TECHNOLOGIST, LOCATED AT 3185 MAVIS ROAD.

Z. ALL SURFACE DRAINAGE WILL BE SELF CONTAINED, COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.

AA. THE PORTIONS OF THE DRIVEWAY WITHIN THE MUNICIPAL BOULEVARD WILL BE PAVED BY THE APPLICANT

AB. AT THE ENTRANCES TO THE SITE, THE MUNICIPAL CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY AND A CURB DEPRESSION WILL BE PROVIDED FOR EACH ENTRANCE.

AC. ALL PROPOSED CURBING WITHIN THE MUNICIPAL BOULEVARD AREA FOR THE SITE IS TO SUIT AS FOLLOWS:

FOR ALL SINGLE FAMILY RESIDENTIAL PROPERTIES INCLUDING ON STREET TOWNHOUSES, ALL CURBING IS TO STOP AT THE PROPERTY LIMIT OR THE BACK OF THE MUNICIPAL SIDEWALK, WHICHEVER IS APPLICABLE, OR

FOR ALL OTHER PROPOSALS INCLUDING INDUSTRIAL, COMMERCIAL AND CONDOMINIUM DEVELOPMENTS, ALL ENTRANCES TO THE SITE ARE TO BE IN ACCORDANCE WITH OPSD 350.010.

AD. ALL EXCESS EXCAVATED MATERIAL WILL BE REMOVED FROM THE SITE.

AE. THE EXISTING DRAINAGE PATTERN WILL BE MAINTAINED EXCEPT WHERE NOTED.

AF. THE APPLICANT WILL BE REQUIRED TO CONTACT ALL UTILITY COMPANIES TO OBTAIN ALL REQUIRED LOCATES PRIOR TO THE INSTALLATION OF HOARDING WITHIN THE MUNICIPAL RIGHT OF WAY.

AG. THE APPLICANT WILL BE RESPONSIBLE FOR THE COST OF ANY UTILITY RELOCATIONS NECESSITATED BY THE SITE PLAN.

AH. PRIOR TO CONSTRUCTION TAKING PLACE, ALL REQUIRED HOARDING IN ACCORDANCE WITH THE ONTARIO OCCUPATIONAL HEALTH & SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS MUST BE ERECTED AND THEN MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION.

AI. SHOULD ANY WORKS BE REQUIRED WITHIN THE MUNICIPAL RIGHT OF WAY, A ROAD OCCUPANCY PERMIT WILL BE REQUIRED. PUCC APPROVAL WILL BE REQUIRED. FOR FURTHER INFORMATION, PLEASE CONTACT THE PUCC/PERMIT TECHNOLOGIST, LOCATED AT 3185 MAVIS ROAD."

WATERMAINS

A. ALL WATERMAIN AND WATERMAIN APPURTENANCE CONSTRUCTION, INSTALLATION AND TESTING SHALL CONFORM TO THE CURRENT REGION STANDARDS AND SPECIFICATIONS, MINISTRY OF ENVIRONMENT (MOE) GUIDELINES, NFPA 24 AND AS NOTED BELOW.

B. FITTINGS TO BE CAST OR DUCTILE IRON IN CONFORMANCE WITH AWWA/C110. OR PVC IN CONFORMANCE WITH CSA B137.3

C. WHERE WATERMAINS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED; WHERE WATERMAINS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED, WHILE STILL MAINTAINING A MINIMUM DEPTH OF COVER AT ALL TIMES. WHERE VERTICAL SEPARATION CANNOT BE MAINTAINED, THE SEWER SHALL BE CONSTRUCTED OF MATERIAL AND WITH JOINTS THAT ARE EQUIVALENT TO WATERMAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS.

D. WATERMAINS SHALL BE INSTALLED WITH A MINIMUM COVER OF 1.7m FROM FINAL GRADE TO OBVERT OF PIPE.

E. LATERAL SEPARATION OF WATERMAINS TO STORM OR SANITARY SEWERS TO BE 2.5 m (CLEAR).

F. WATERMAIN BEDDING AND COVER SHALL CONFORM TO REGION STANDARD. AT CROSSINGS, CONTRACTOR TO ADEQUATELY SUPPORT PIPE WITH

GRANULAR BEDDING OR CONCRETE AS REQUIRED.

G. WATERMAIN JOINTS SHALL BE RESTRAINED BY CONCRETE THUST BLOCKS AND MECHANICAL RESTRAINTS. CONCRETE THRUST BLOCKS TO BE PROVIDED AT ALL BENDS, TEES, HYDRANTS, PLUGS, ETC. THRUST BLOCK AND MECHANICAL RESTRAINTS INSTALLATION AND AREA PER REGION STD. 1-3-3A, 1-5-4, 1-5-5, 1-5-6, 1-5-7.

H. PIPE JOINT DEFLECTION SHOULD BE USED WHEREVER POSSIBLE TO MINIMIZE THE USE OF BENDS. WHEREVER IT IS NECESSARY TO DEFLECT FROM A STRAIGHT LINE, EITHER IN THE VERTICAL OR HORIZONTAL PLANE, THE AMOUNT OF DEFLECTION SHALL BE A MAXIMUM 70% OF THE MANUFACTURER'S RECOMMENDATIONS. DEFLECTION IN THE BARREL IS NOT PERMITTED.

I. CONTRACTOR TO MEASURE AND PROVIDE NON-TYPICAL ANGLE BENDS AS REQUIRED.

J. CONTRACTOR TO USE MAXIMUM 45° BENDS WHERE WATERMAIN CROSSES UNDER SEWERS.

K. ALL DIRECT BURIED VALVES AND FITTINGS TO HAVE ANODES, IN ACCORDANCE WITH ASTM 418.1, TO BE INSTALLED ON ALTERNATING BOLTS. REFER TO REGION STD. FOR APPROVED MATERIALS. ALL VALVES AND FITTINGS TO BE SUPPLIED WITH STAINLESS STEEL NUTS AND BOLTS. ALL FITTINGS AND VALVES TO BE WRAPPED IN DENSO TAPE. ALL WATERMAIN TEES SUPPLYING FIRE HYDRANTS SHALL BE ANCHOR TEES AND SHALL HAVE THE HYDRANT ISOLATION VALVE ANCHORED TO IT.

L. ALL WELD CONNECTIONS TO BE COATED WITH "TC MASTIC" OR APPROVED EQUIVALENT.

M. FOR TRENCH BACKFILL REFER TO STORM SEWER NOTES (G,H,I)

N. TRACER WIRE SHALL BE INSTALLED WITH PVC PIPE IN ACCORDANCE WITH REGION STANDARDS. IT SHALL BE 12 GAUGE TW75, TWU75 OR RW90XLPE COATED COPPER. THE TRACER WIRE SHALL ALSO BE CONNECTED TO THE CATHODIC PROTECTION SYSTEM. THE TRACER WIRE IS TO BE BROUGHT TO THE SURFACE AT EVERY HYDRANT AND VALVE BOX/CHAMBER. CONTRACTOR TO WRAP TRACER WIRE AROUND HYDRANT BELOW THE SAFETY FLANGE.

O. THE INSPECTOR MAY TEST THE TRACING WIRE FOR CONTINUITY. IF THE TRACER WIRE IS NOT CONTINUOUS FROM VALVE TO VALVE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE WIRE.

P. ALL WATER CUSTOMERS SUPPLIED BY A WATERMAIN TO BE SHUT DOWN SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 24 HOURS IN ADVANCE OF THE SHUT DOWN OR AS REQUIRED BY THE REGION

REGION OF PEEL STANDARD WATERMAIN NOTES

A. ALL MATERIALS AND CONSTRUCTION METHODS MUST CONFORM TO THE CURRENT PEEL PUBLIC WORKS STANDARDS AND SPECIFICATIONS.

B. ALL WATERMAINS FROM 100mm TO 300mm DIAMETER, INCLUSIVE, SHALL BE PVC PIPE CLASS 150. ALL WATERMAINS UP TO AND INCLUDING 50mm DIAMETER SHALL BE TYPE `K' COPPER.

C. ALL WATERMAINS AND WATER SERVICES TO HAVE MINIMUM 1.7m COVER WITH A MINIMUM HORIZONTAL SEPARATION OF 1.2m FROM ANY OTHER UTILITIES.

D. 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 DIAMETER MIN. ON A HYDRANT.

E. ALL CURB STOPS TO BE 3.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED.

F. HYDRANTS AND VALVE SET TO REGION STANDARD 1-6-1 DIMENSION A AND B, 0.7m AND 0.9m AND TO HAVE PUMPER NOZZLE.

G. WATERMAINS TO BE INSTALLED TO GRADES AS SHOWN ON APPROVED SITEPLAN. COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHERE REQUESTED BY INSPECTOR.

H. WATERMAINS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 0.30m OVER/0.50m UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING.

I. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM EXISTING SYSTEMS.

J. PRIVATE FIRE HYDRANTS SHALL BE FLOW TESTED AND COLOR CODED IN CONFORMANCE WITH THE REGION OF PEEL "UNIFORM MARKING OF HYDRANTS".

K. 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.

L. 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.

M. LOCATION OF ALL EXISTING UTILITIES IN THE FIELD TO BE ESTABLISHED BY THE CONTRACTOR.

N. THE CONTRACTOR(S) SHALL BE SOLELY RESPONSIBLE FOR LOCATES, EXPOSING, SUPPORTING AND PROTECTING OF 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 FORM DAMAGE TO SAME.

O. 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 THE CONSTRUCTION, WITH THE CONTRACTOR RESPONSIBLE FOR ALL COSTS ARISING FROM SUCH INSPECTION.

SANITARY SEWERS AND MANHOLES

A. ALL SANITARY SEWERS AND APPURTENANCES SHALL CONFORM TO THE CURRENT CITY AND REGIONAL STANDARDS, AND SPECIFICATIONS AND MINISTRY OF ENVIRONMENT (MOE) GUIDELINES.

B. PVC PIPES ARE AN ACCEPTABLE ALTERNATIVE UP TO 375 mm DIA. PIPE TO SDR-35 AND CONFORM TO CSA-B182.2,3 (STIFFNESS 320KPA OR GREATER).

C. ALL SEWER BEDDING AND COVER MATERIAL TO BE INSTALLED IN ACCORDANCE WITH 802.010 (FLEXIBLE PIPE), 802.030 (RIGID PIPE - TYPE 1 OR 2 SOIL), 802.031 (RIGID PIPE - TYPE 3 SOIL) AND 802.032 (RIGID PIPE - TYPE 4 SOIL), AND TO BE COMPACTED GRANULAR 'A' TO A MINIMUM OF 95% MPMDD OR OTHER MATERIAL APPROVED BY CITY, REGION AND GEOTECHNICAL CONSULTANT. AT CROSSINGS, CONTRACTOR TO ADEQUATELY SUPPORT PIPE WITH GRANULAR BEDDING OR CONCRETE AS REQUIRED. PVC PIPE WILL REQUIRE SPECIAL CONSTRUCTION PROCEDURES AS PER CITY AND REGIONAL SPECIFICATIONS. WHERE SAND OR SILT SUBGRADE IS ENCOUNTERED, CONTRACTOR TO SEPARATE THE BEDDING MATERIAL FROM THE SUBGRADE USING A SUITABLE GEOTEXTILE.

D. WHERE TRENCH WIDTHS ARE OVER-EXCAVATED, CONTRACTOR TO INCREASE STRUCTURAL CAPACITY OF SEWER BEDDING AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER.

E. WHERE TRENCH BACKFILL CONSISTS OF SUITABLE EXCAVATED NATIVE MATERIAL (WITHIN OPTIMUM OR 2 PERCENT GREATER THAN OPTIMUM), THE BACKFILL IS TO BE PLACED IN MAXIMUM 150mm LIFTS AND COMPACTED TO A MINIMUM OF 95% MPMDD.

F. ALL STRUCTURES WITHIN ROADWAYS SHALL BE INSTALLED BY VERTICAL TRENCH WITH UNSHRINKABLE FILL BACKFILL TO ROAD SUBRAGE.

G. APPROVED NATIVE MATERIAL OR GRANULAR BACKFILL AS SPECIFIED BY THE GEOTECHNICAL CONSULTANT SHALL BE INSTALLED ON ALL PIPES PER OPSD 802.010, 802.013, 802.030 802.033.

H. PRECAST MANHOLES AND FITTINGS SHALL CONFORM TO CSA-A257.4-M.

I. SANITARY MANHOLES PER OPSD 701.010 (1200 mm DIAMETER). MANHOLE COMPONENTS IN ACCORDANCE WITH OPSD 701.030. FRAME AND COVER PER OPSD 401.01 (CLOSED COVER). FIRST JOINT CONCRETE ENCASED IF CONCRETE, OR FLEXIBLE JOINT IF PVC USED.

J. BENCHING PER OPSD 701.021, UNLESS OTHERWISE SPECIFIED.

K. PROVIDE CCTV CAMERA INSPECTION OF SEWERS AFTER COMPLETION OF WORK AND FLUSHING OF LINES.

REINSTATEMENT

A. ALL SURFACE FEATURES NOT DESIGNATED AS TO BE REMOVED INCLUDING BUT NOT LIMITED TO CURBS, LANDSCAPING, PAVEMENT, PAVEMENT MARKING AND SIDEWALKS BUT ARE DISTURBED, DAMAGED OR REMOVED DURING THE CONTRACTOR'S ACTIVITIES SHALL BE REINSTATED TO ITS ORIGINAL CONDITIONS AT NO EXTRA COST.

B. ALL EXISTING FEATURES THAT ARE TO REMAIN, ie. MANHOLE LIDS, CATCHBASINS, VALVE CHAMBER LIDS, VALVE BOXES, ETC. SHALL BE ADJUSTED TO SUIT THE FINISHED ELEVATIONS AS REQUIRED.

COMPACTION REQUIREMENTS

A. ENGINEERED FILL TO BE COMPACTED TO NOT LESS THAN 98% SPMDD UNDER THE FULL TIME SUPERVISION OF THE GEOTECHNICAL ENGINEER.

B. PRIOR TO CONSTRUCTING THE PAVEMENTS, ALL SERVICE TRENCHES MUST BE COMPACTED TO AT LEAST 98% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD). BACKFILL UNDER SIDEWALKS AND BUILDINGS TO BE COMPACTED TO 98% SPMDD.

C. THE SUBGRADE SHOULD BE PROPERLY SHAPED AND CROWNED. PROOF-ROLL TO IDENTIFY SOFT OR SPONGY SUBGRADE AREAS AND TO BE SUB-EXCAVATED AND PROPERLY REPLACED WITH SUITABLE APPROVED BACKFILL COMPACTED TO 98% SPMDD AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

D. GRANULAR BASE MATERIAL SHALL BE COMPACTED TO 100% SPMD

E. SUB-BASE MATERIAL SHALL BE COMPACTED TO 100% SPMDD.

F. THE ASPHALT CONCRETE MUST BE COMPACTED TO AT LEAST 96% MARSHALL DENSITY PER OPSS 310.

PAVEMENT AND SURFACE WORKS

A. NATIVE SUBGRADE SHALL HAVE A CROSSFALL OF 2% AND THE MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.

B. PAVEMENT SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% SPMDD AND PROOF ROLLED WITH A LOADED TANDEM TRUCK. AREA EXHIBITING MORE THAN 20mm DEFLECTION SHOULD HAVE THE TOP 300mm REMOVED AND REPLACED WITH APPROVED DRIER MATERIALS. SUBGRADE SHALL BE PLACED IN LIFTS NOT EXCEEDING 200mm IN THICKNESS. ANY MATERIAL THAT HAS MOISTURE CONTENT HIGHER THAN 3% OF ITS OPTIMUM MOISTURE CONTENT SHALL BE DRIED OUT.

THE GRANULAR BASE AND SUB-BASE LAYERS SHOULD BE COMPACTED TO 100% OF THEIR SPMDD. UNSTABLE AREAS MAY REQUIRE SUB-EXCAVATION AND RE-COMPACTION OR INCREASED THICKNESS OF GRANULAR SUB-BASE, AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

C. THE SUITABILITY AND COMPACTION OF ALL EXISTING AND FILL MATERIALS SHALL BE CONFIRMED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF PAVEMENT BASE COURSE MATERIAL.

D. PAVEMENT STRUCTURE (UNLESS OTHERWISE DIRECTED BY GEOTECHNICAL CONSULTANT):

250 mm	OPSS GRANULAR 'B'
200 mm	OPSS GRANULAR 'A'
65 mm	OPSS HL8
40 mm	OPSS HL3
555 mm	

E. ALL DISTURBED PAVEMENT ON ADJACENT ROADS SHALL BE RESTORED TO EXISTING DEPTHS AND TYPES OF MATERIALS OR BETTER UPON COMPLETION OF PAVEMENT WORKS.

F. CONCRETE CURB AND GUTTER SHALL BE AS PER OPSD 600.040

G. PAVEMENT MARKINGS TO BE APPLIED AFTER BASE ASPHALT IF TOP ASPHALT IS NOT SCHEDULED TO FOLLOW WITHIN 24 HOURS AND BASE ASPHALT PAVEMENT SURFACES ARE TO BE USED BY THE PUBLIC. AFTER TOP ASPHALT, PAVEMENT MARKING WITH DOUBLE COAT.

H. THE PORTIONS OF DRIVEWAY WITHIN THE MUNICIPAL BOULEVARD WILL BE PAVED BY THE APPLICANT.

I. AT THE ENTRANCES TO THE SITE, THE MUNICIPAL CURB AND SIDEWALK WILL BE CONTINUOUS THROUGH THE DRIVEWAY AND A CURB DEPRESSION WILL BE PROVIDED FOR EACH ENTRANCE.

J. ALL PROPOSED CURBING WITHIN THE MUNICIPAL BOULEVARD AREA FOR THE SITE IS TO SUIT AS FOLLOWS:

i) FOR ALL SINGLE FAMILY RESIDENTIAL PROPERTIES INCLUDING ON STREET TOWNHOUSES, ALL CURBING IS TO STOP AT THE PROPERTY LIMIT OR THE BACK OF THE MUNICIPAL SIDEWALK, WHICHEVER IS APPLICABLE, OR

ii) FOR ALL OTHER PROPOSALS INCLUDING INDUSTRIAL, COMMERCIAL, AND CONDOMINIUM DEVELOPMENTS, ALL ENTRANCES TO THE SITE ARE TO BE IN ACCORDANCE WITH OPSD 350.010

PERMITS AND APPROVALS

THE FOLLOWING APPROVALS ARE REQUIRED PRIOR TO COMMENCING CONSTRUCTION. OWNER HAS APPLIED FOR THE FOLLOWING PERMITS/APPROVALS: SITE PLAN APPROVAL (OR CLEARANCE LETTER FROM CITY), BUILDING PERMIT, AND SERVICE PERMIT (REGION).

CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL OTHER NECESSARY PERMITS.

THE CONTRACTOR SHALL NOT COMMENCE WORK IN ANY AREA REQUIRING A PERMIT UNTIL THE CONTRACTOR POSSESSES A COPY OF A PERMIT, TOGETHER WITH ANY AND ALL CONDITIONS, DRAWINGS AND SKETCHES ATTACHED TO THE PERMIT.

THE CONTRACTOR SHALL KEEP A COPY OF ALL PERMITS AND ATTACHMENTS ON SITE AT ALL TIMES AND SHALL PRODUCE THEM ON DEMAND BY THE MUNICIPALITY, CONSULTANT, OWNER OR APPROVING AUTHORITY.

DRAWING LIST

ALL DIMENSIONS AND ELEVATIONS ARE IN METRES UNLESS OTHERWISE NOTED.

PIPE SIZES ARE IN MILLIMETRES.

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO CITY OF MISSISSAUGA VERTICAL BENCH MARK NUMBER 686 HAVING AN ORTHOMETRIC ELEVATION OF 135.35 METRES. ELEVATIONS ARE REFERENCED TO THE CANADIAN GEODETIC VERTICAL DATUM OF 1928, PRE-1978 ADJUSTMENT (CGVD:1928:PRE-78ADJ.).

TABLET SET ON THE SOUTH FACE AT THE EAST CORNER OF THE MOST SOUTH WALL OF FOREST GLEN PUBLIC SCHOOL ON THE NORTH SIDE OF PONYTRAIL DRIVE, 122 METRES WEST OF BRIDGEWOOD DRIVE.

No.	REVISIONS	BY	DATE
03	RE - ISSUED FOR ZBA APPLICATION	TC	DEC 18, 2023
02	RE - ISSUED FOR ZBA APPLICATION	TC	SEPT 25, 2023
01	ISSUED FOR ZBA APPLICATION	TC	MAY 27, 2022

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED

LICENSED PROFESSIONAL ENGINEER
T.J. CHISHOLM
100052956
2023-12-18
PROVINCE OF ONTARIO

CONSULTANT

wsp

CLIENT

1785 BLOOR HOLDINGS INC.

MUNICIPALITY

Region of Peel working with you

MISSISSAUGA

TITLE OF DRAWING

1785 BLOOR STREET
MISSISSAUGA, ONTARIO
NOTES

NOT FOR CONSTRUCTION

SCALE	N/A	DESIGN	A.S.	211-10685
DRAWN BY	CAD 10/12	CHECKED	T.C.	PLAN NUMBER
DATE	MAY 2022	SHEET	OF	C100

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PLOTDATE: Dec 15, 2023 - 9:14am, CAAS075674