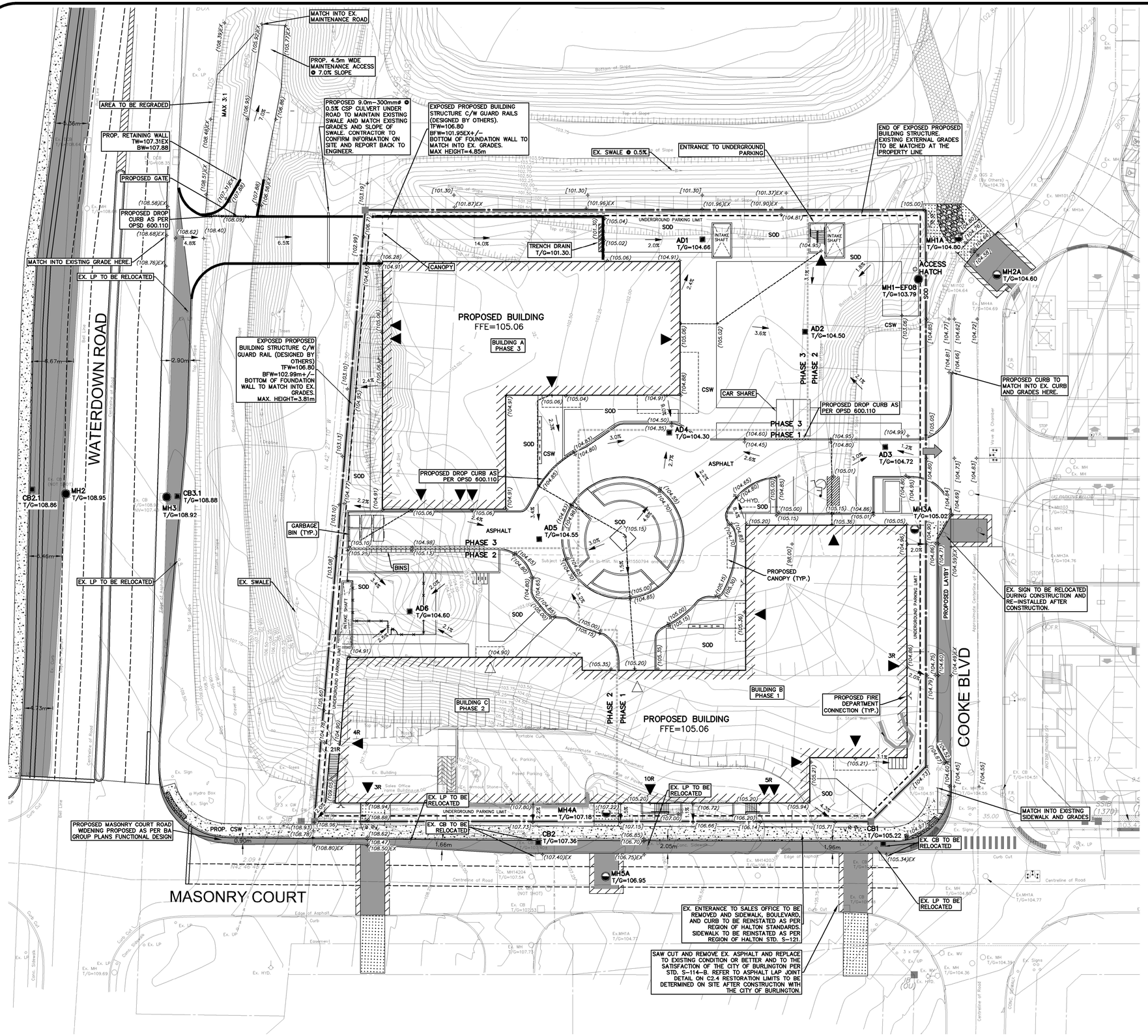
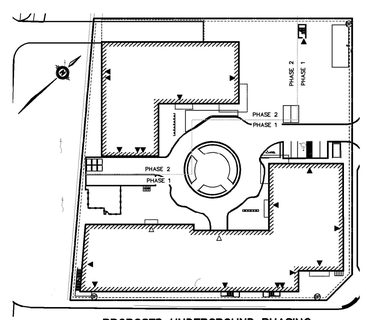


LEGEND OF EXISTING FEATURES

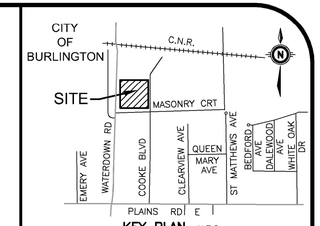
- SITE BOUNDARY
- EASEMENT
- EXISTING SPOT ELEVATIONS/CONTOURS
- EXISTING DIRECTION OF DRAINAGE/SWALE
- EXISTING CURB
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING EMBANKMENT (SLOPE AS NOTED)
- EXISTING OVERHEAD WIRE
- EXISTING TACTILE WALKING STRIP

LEGEND OF PROPOSED FEATURES

- PROPOSED SPOT ELEVATIONS (EX =MAINTAIN EXISTING, T/G =TOP OF CASTING/GRATE, INV =INVERT ELEVATION, FFE =FINISHED FLOOR ELEVATION)
- SPOT ELEVATIONS (BY OTHERS)
- DIRECTION OF DRAINAGE
- DRAINAGE SPLIT
- EMBANKMENT (SLOPE AS NOTED)
- PROPOSED BUILDING
- OVERHEAD DOOR
- MAN DOOR
- CONCRETE CURB
- RETAINING WALL
- OVERLAND FLOW ROUTE (MAJOR STORM)
- PHASING LINE
- AREA DRAIN
- CAISSON (BY OTHERS)
- UNDERGROUND PARKING LIMIT
- CANOPY
- ROAD CUT C/W LAP JOINT (SEE DETAIL ON C2.4)
- GRAVEL AREA REMOVALS
- CONCRETE AREA REMOVALS
- SOD AREA REMOVALS
- TRENCH DRAIN
- TACTILE WALKING STRIP



PROPOSED UNDERGROUND PHASING
SCALE 1:1000



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 100.718m
ELEVATIONS ARE REFERRED TO THE CITY OF BURLINGTON BENCHMARK NO. 0011922u2445.

SITE BENCHMARK ELEV. = m

NOTE TO CONTRACTOR :

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NOTE:

1. **PROPERTY-LINE IS APPROXIMATE ONLY.**
2. **EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY J.H.GELBLOOM SURVEYING LIMITED AND R. AVIS SURVEYING INC. COMPLITED ON MARCH 27, 2021.**
3. **INVERTS DENOTED WITH "±" ARE TAKEN FROM AS-RECORDED PLAN AND PROFILE DRAWINGS COMPLETED BY CITY OF BURLINGTON AND URBANTECH WEST AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.**
4. **THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF THE FOLLOWING: C1.1, C2.1, C2.2, C2.3, C2.4, C2.5, C2.6 AND THE FSR AND SWM REPORT.**

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1.	ISSUED FOR ZBA	GPB	2021-11-22

MTE
Engineers, Scientists, Surveyors
905-639-2552

LICENSED PROFESSIONAL ENGINEER G.P. BERENYI 100058712 2021-11-23 Digital Original PROVINCE OF ONTARIO

48247-100

NOT FOR CONSTRUCTION

CLIENT
ADI DEVELOPMENT (MASONRY INC)
1100 BURLOAK DR SUITE 700 BURLINGTON, ON

PROJECT
1120 COOKE BLVD
THREE MULTI-STOREY BUILDING
1120 COOKE BLVD BURLINGTON, ON

DRAWING
SITE GRADING PLAN

Project Manager: G. BERENYI	Project No.: 48247-100
Design By: EXK	Checked By: GPB
Drawn By: LXQ/DXC	Checked By: LXQ
Surveyed By: OTHERS	Drawing No.: C2.1
Date: Jun.23/21	
Scale: 1:300	Sheet 4 of 9

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PROPOSED NEW ISLAND (REFER TO BA GROUP PLANS FOR FUNCTIONAL DESIGN)

PROPOSED WATERDOWN ROAD WIDENING (REFER TO BA GROUP PLANS FUNCTIONAL DESIGN)

PROPOSED 9.0m–300mmø @ 0.5% CSP CULVERT UNDER ROAD TO MAINTAIN EXISTING SWALE AND MATCH EXISTING GRADES AND SLOPE OF SWALE. CONTRACTOR TO CONFIRM INFORMATION ON SITE AND REPORT BACK TO ENGINEER.

PROPOSED ACO–K100 TRENCH DRAIN C/W GALVANIZED EDGE RAILS TYPE 478Q LONGITUDINAL DUCTILE IRON (OR APPROVED EQUIVALENT) CONNECTED TO INTERNAL PLUMBING

EX. STORM WITHIN PROPOSED BUILDING FOOTPRINT TO BE REMOVED

PROPOSED DROP CURB AS PER OPSD 600.110

TRENCH DRAIN T/G=101.30.

AD1 T/G=104.66

EX. LP TO BE RELOCATED

LINE PAINTINGS

WATERDOWN ROAD

PROPOSED BUILDING FFE=105.06

BUILDING A PHASE 3

MECHANICAL TO PROVIDE STORM SERVICE FROM MH TO BUILDINGS UNDERGROUND STORM TANK. MH TO BE FITTED WITH PROPOSED OIL GRIT SEPERATOR TYPE STC–EF08 OR APPROVED EQUIVALENT. SEE MTE FUNCTIONAL SERVICING AND SWM REPORT FOR SIZING DETAILS AND TECHNICAL MANUAL.

PROPOSED UNDERGROUND STORM TANK TO BE LOCATED IN PARKING LEVEL ONE. FOOTPRINT AREA=85.37m2 TO PROVIDE 227m3 OF ACTIVE STORAGE. INTERNAL TOP OF TANK ELEV.=103.34m INTERNAL BOTTOM OF TANK ELEV.=101.40m

PROPOSED 225mmø AMETER ORIFICE PLATE

CAR SHARE

ALL AREA DRAINS TO BE ACO–K1–621G DRAINS TYPE 878Q GRATE (OR APPROVED EQUIVALENT) AND TO BE CONNECTED TO INTERNAL PLUMBING

PHASE 3 PHASE 1

PHASE 3 PHASE 2

AD2 T/G=104.50

AD3 T/G=104.72

AD4 T/G=104.30

AD5 T/G=104.55

AD6 T/G=104.60

PROPOSED FIRE HYDRANT (REFER TO MECHANICAL PLANS)

GARBAGE BIN (TYP.)

BINS

EX. SWALE

EX. LP TO BE RELOCATED

5.5m–250mmø STM @ 0.9%

CB2.1 T/G=108.86 NE INV.=107.55

MH2 T/G=108.95 SW INV.=107.50±EX

CB3.1 T/G=108.88 SW INV.=107.48

1.7m–250mmø STM @ 1.2%

MH3 T/G=108.92 NE INV.=107.46± EXN INV.=107.40±

EX. CB TO BE REPLACED WITH MH

EX. CB TO BE REPLACED WITH MH

5.46m

4.73m

6.67m

2.90m

MH1–EF08 T/G=103.79 N INV=101.40

SAN INV=100.25

5.2m–200mmø SAN @ 2.0%

8.8m–200mmø SAN @ 2.0%

ACCESS HATCH

WTM OBV=103.30

250mmø DOM

MH1A T/G=104.80 SW INV.=100.15 NW INV.=100.19

300mmø PVC WTM

CONNECT TO EXISTING 300mmø WTM AS PER REGION STD. 409.010 c/w TEE AND VALVE BOX AS PER REGION STANDARDS 406.020 (BY REGION OF HALTON FORCES)

MH2A T/G=104.60 W INV.=100.01± EX. SE INV.=99.89± EX. NW INV.=99.90±

PROPOSED 200mmø SAN SERVICE TO CONNECT INTO EX. SANITARY SEWER WITH PROPOSED MH ON EX. SAN SEWER. CONTRACTOR TO CONFIRM EX. INVERT PRIOR TO CONSTRUCTION AND REPORT FINDING TO ENGINEER. EX. SE INV=99.89± EX. NW INV=99.90± NEW NE INV=99.95

PROPOSED 200mmø SAN SERVICE TO CONNECT INTO EX. MH3A AT NEW SW INV=99.61 CONTRACTOR TO CONFIRM EX. INVERT PRIOR TO CONSTRUCTION AND REPORT FINDING TO ENGINEER.

MH3A T/G=105.02 NE INV.=99.82 W INV=99.85

SEE CROSS SECTION DETAIL ON C2.4

EX. SIGN TO BE RELOCATED DURING CONSTRUCTION AND RE–INSTALLED AFTER CONSTRUCTION.

10.5m–200mmø SAN @ 2.0%

PROPOSED FIRE DEPARTMENT CONNECTION (TYP.)

BUILDING B PHASE 1

BUILDING C PHASE 2

PHASE 2 PHASE 1

PROPOSED BUILDING FFE=105.06

COOKE BLVD

PROPOSED MASONRY COURT ROAD WIDENING PROPOSED AS PER BA GROUP PLANS FUNCTIONAL DESIGN

LINE PAINTINGS

WTM OBV=107.28

250mmø PVC DOMESTIC WTM

EX. LP TO BE RELOCATED

EX. CB TO BE RELOCATED

MH4A T/G=107.18 SE INV.=104.68± NW INV.=104.69 EX.W INV.=104.46± EXE INV.=104.41±

CB2 T/G=107.36

10.4m–200mmø SAN @ 2.0%

WTM OBV=104.01

CB1 T/G=105.22

250mmø PVC DOMESTIC WTM

EX. CB TO BE RELOCATED

MH5A T/G=106.95 NW INV.=104.68± EX.W INV.=104.46± EXE INV.=104.41±

MASONRY COURT

EX. ENTERANCE TO SALES OFFICE TO BE REMOVED AND SIDEWALK, BOULEVARD, AND CURB TO BE REINSTATED AS PER REGION OF HALTON STANDARDS. SIDEWALK TO BE REINSTATED AS PER REGION OF HALTON STD. S–121.

SAW CUT AND REMOVE EX. ASPHALT AND REPLACE TO EXISTING CONDITION OR BETTER AND TO THE SATISFACTION OF THE CITY OF BURLINGTON PER STD. S–114–B. REFER TO ASPHALT LAP JOINT DETAIL ON C2.4 RESTORATION LIMITS TO BE DETERMINED ON SITE AFTER CONSTRUCTION WITH THE CITY OF BURLINGTON.

CONNECT TO EXISTING 300mmø WTM AS PER REGION STD. 409.010 c/w TEE AND VALVE BOX AS PER REGION STANDARDS 406.020 (BY REGION OF HALTON FORCES)

PROPOSED 200mmø SAN SERVICE TO CONNECT INTO EX. SANITARY SEWER WITH PROPOSED MH ON EX. SAN SEWER. CONTRACTOR TO CONFIRM EX. INVERT PRIOR TO CONSTRUCTION AND REPORT FINDING TO ENGINEER. EX. W INV=104.46± EX. E INV=104.41± NEW N INV=104.48

CONNECT TO EXISTING 300mmø WTM AS PER REGION STD. 409.010 c/w TEE AND VALVE BOX AS PER REGION STANDARDS 406.020 (BY REGION OF HALTON FORCES)

PROPOSED UNDERGROUND PHASING
SCALE 1:1000

LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EXISTING EASEMENT
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- EXISTING CURB
- EXISTING BUILDING
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING EMBANKMENT (SLOPE AS NOTED)
- OVERHEAD WIRE

LEGEND OF PROPOSED FEATURES

- PROPOSED BUILDING
- OVERHEAD DOOR
- MAN DOOR
- WATER METER
- BACKFLOW PREVENTER
- CONCRETE CURB
- EMBANKMENT (SLOPE AS NOTED)
- SANITARY SEWER — MH 14.6m–200mmø SAN @ 1.5%
- STORM SEWER — MH 21.3m–300mmø STM @ 1.3%
- WATERMAIN — 200mmø WTM, HYD. SET, V., TEE
- SEWER CROSSING (REFER TO CROSSING CHART ON C2.3) — X1
- PHASING LINE
- UNDERGROUND PARKING LIMIT
- LINE PAINTING (BY OTHERS)
- TRENCH DRAIN — AD1
- AREA DRAIN
- CROSS SECTION (SEE DETAIL ON C2.4, C2.5 AND C2.6) — A A
- ROAD CUT C/W LAP JOINT (SEE DETAIL ON C2.4)
- GRAVEL AREA REMOVALS
- CONCRETE AREA REMOVALS
- SOD AREA REMOVALS
- TACTILE WALKING STRIP (BY OTHERS)

CITY OF BURLINGTON — C.N.R. — SITE — MASONRY CRT — QUEEN MARY AVE — CLEARVIEW AVE — COOKE BLVD — WATERDOWN RD — EMERY AVE — ST MATTHEWS AVE — BEDFORD AVE — DALEWOOD AVE — WHITE OAK DR — PLAINS RD E

KEY PLAN N.T.S.

GEODETIC BM ELEV. = 100.718m
ELEVATIONS ARE REFERRED TO THE CITY OF BURLINGTON BENCHMARK NO. 0011922u2445.

SITE BENCHMARK ELEV. = m

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NOTE:

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4. **THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF THE FOLLOWING: C1.1, C2.1, C2.2, C2.3, C2.4, C2.5, C2.6 AND THE FSR AND SWM REPORT.**

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1.	ISSUED FOR ZBA	GPB	2021–11–22

MTE
Engineers, Scientists, Surveyors
905-639-2552

LICENSED PROFESSIONAL ENGINEER G.P. BERENYI 100058712 2021-11-23 Digital Original PROVINCE OF ONTARIO 48247-100

NOT FOR CONSTRUCTION

CLIENT
ADI DEVELOPMENT (MASONRY INC)
1100 BURLOAK DR SUITE 700 BURLINGTON, ON

PROJECT
1120 COOKE BLVD
THREE MULTI–STOREY BUILDING
1120 COOKE BLVD BURLINGTON, ON

DRAWING
SITE SERVICING PLAN

Project Manager: G. BERENYI	Project No.: 48247-100
Design By: EXK	Checked By: GPB
Drawn By: LXQ/DXC	Checked By: LXQ
Surveyed By: OTHERS	Drawing No.: C2.2
Date: Jun.23/21	
Scale: 1:300	Sheet 5 of 9

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CONSTRUCTION NOTES AND SPECIFICATIONS

1. GENERAL

1.1. THESE PLANS ARE NOT FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY ENGINEER AND APPROVED BY THE LOCAL MUNICIPALITY.

1.2. THESE PLANS ARE TO BE USED FOR SERVICING AND GRADING ONLY; ANY OTHER INFORMATION SHOWN IS FOR ILLUSTRATION PURPOSES ONLY. THESE PLANS MUST NOT BE USED TO SITE THE PROPOSED BUILDING.

1.3. NO CHANGES ARE TO BE MADE WITHOUT THE APPROVAL OF THE DESIGN ENGINEER.

1.4. THESE PLANS ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE PERMISSION OF MTE CONSULTANTS INC.

1.5. THE APPROVAL OF THSES 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:

1.5.1. ROAD CUT PERMITS

1.5.2. APPROACH APPROVAL PERMITS

1.5.3. COMMITTEE OF ADJUSTMENT

1.5.4. SEWER PERMITS

1.5.5. RELOCATION OF SERVICES

1.5.6. ENCROACHMENT AGREEMENTS

1.6. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:

1.6.1. 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.

1.6.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.

1.6.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.

1.6.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF
THE MOST RECENT REVISION.

1.7. THE CONTRACTOR SHALL ASSUME ALL LIABILITY FOR ANY DAMAGE TO EXISTING WORKS. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL DAMAGED AND/OR DISTURBED PROPERTY WITHIN THE MUNICIPAL RIGHT-OF-WAY TO LOCAL MUNICIPALITY STANDARDS

1.8. ALL WORKS ON A MUNICIPAL RIGHT-OF-WAY WITH THE EXCEPTION OF WATERMAIN TAPPING, TO BE INSTALLED BY THE OWNER'S CONTRACTOR AT OWNER'S EXPENSE IN ACCORDANCE WITH THE LOCAL MUNICIPALITY'S "PROCEDURE FOR OFF-SITE WORKS BY PRIVATE CONTRACTOR". THE OWNER AND CONTRACTOR ARE TO ENSURE OFF-SITE WORKS PERMIT IS IN PLACE PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AFFECTED PROPERTY TO ORIGINAL CONDITION OR BETTER. ALL BOULEVARD AREAS SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD.

1.9. ALL UNDERGROUND SERVICES ARE TO BE CONSTRUCTED IN FULL COMPLIANCE WITH THE ONTARIO PROVINCIAL BUILDING CODE (PART 7, PLUMBING), THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND IN ACCORDANCE WITH THE CURRENT CITY OF BURLINGTON REGIONAL MUNICIPALITY OF HALTON STANDARDS AND MINISTRY OF ENVIRONMENT GUIDELINES (LATEST EDITION). THE CITY AND REGION DRAWINGS SHALL TAKE PRECEDENT OVER THE OPSD DRAWING

1.10. 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.

1.11. NO BLASTING WILL BE PERMITTED.

1.12. ALTERNATIVE MAT'ERIALS WILL NOT BE ALLOWED UNLESS FIRST APPROVED IN WRITING BY THE CONSULTANT AND THE CITY OF BURLINGTON OR REGIONAL MUNICIPALITY OF HALTON.

1.13. 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.

1.14. 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.

1.15. SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY CORE ARCHITECTS INC., DATED SEP.18, 2020.

1.16. EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY J. H. GELBLOOM SURVEYING LIMITED, RECEIVED OCT. 09, 2020. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.

1.17. CONTRACTOR TO OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNER PRIOR TO ENTERING UPON NEIGHBOURING LANDS TO UNDERTAKE ANY WORK. COPIES OF THESE LETTERS OF CONSENT SHALL BE SUBMITTED TO THE DEPARTMENT OF PUBLIC WORKS FOR APPROVAL PRIOR TO ANY WORK BEING PERFORMED. FAILURE TO COMPLY WITH THE ABOVE IS AT CONTRACTOR'S OWN RISK.

1.18. 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 HIGH SIDE OF RETAINING WALLS TO BE BACKFILLED WITH FREE DRAINING MATERIAL AND TO BE INSTALLED WITH A RAILING PER DETAIL SHOWN ON C2.4.

1.19. ALL RETAINING WALLS 1.0m IN HEIGHT AND OVER MUST BE APPROVED BY THE CBO. ALL RETAINING WALLS LESS THAN 1.0m IN HEIGHT MUST BE APPROVED BY PLANNING.

1.20. SITE SERVICING CONTRACTOR TO TERMINATE ALL SERVICES 1 METRE FROM FOUNDATION WALL.

1.21. FILTER FABRIC TO BE TERRAFIX 270 OR APPROVED EQUAL.

1.22. MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER AND CONFIRMED BY A GEOTECHNICAL ENGINEER FOR SLOPE STABILITY.

1.23. SIDE SLOPES OF ALL STOCKPILES OR EXTRACTION FACES TO BE MAINTAINED AT 70 DEGREES OR LESS BETWEEN EARLY APRIL AND LATE AUGUST TO DETER BANK SWALLOWS FROM NESTING.

1.24. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC AND SAFETY MEASURES DURING THE CONSTRUCTION PERIOD INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNALS, DELINEATORS, MARKERS, AND BARRIERS. ALL SIGNS, ETC. SHALL CONFORM TO THE STANDARDS OF THE LOCAL MUNICIPALITY AND THE MTO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

1.25. THE POSITION OF POLE LINES, CONDUITS, WATERMAINS, 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.

1.26. CONTRACTOR TO MAINTAIN A 'CONFINED TRENCH CONDITION' IN ALL SEWER AND SERVICE TRENCHES.

1.27. FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLUSHED, AND ALL CATCHBASIN AND CATCHBASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.

1.28. 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.

1.29. TEMPORARY LANE CLOSURES WILL REQUIRE A ROAD OCCUPANCY PERMIT. CONTRACTOR IS TO ACQUIRE THE PERMIT AND COVER ALL ASSOCIATED COSTS.

1.30. ALL WORKS WITHIN THE MUNICIPAL RIGHT OF WAY REQUIRED MUNICIPAL CONSENT. CONTRACTOR TO CONTACT CITY OF BURLINGTON TO OBTAIN MUNICIPAL CONSENT.

1.31. ALL REINFORCED CONCRETE TO HAVE f'c = 35MPa, C-1 EXPOSURE

2. STORM SEWERS

2.1. MANHOLES AND MANHOLE CATCHBASINS TO BE 1200mmø PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED.

2.2. STORM MANHOLE LIDS TO BE PER OPSD 401.010 - TYPE "A" CLOSED COVER, STAMPED "DANGER" "STORM".

2.3. 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 OF BURLINGTON SPECIFICATIONS (SPEC No.SS7). 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 BURLINGTON.

2.4. UPON COMPLETION OF THE CLEANING AND FLUSHING ACTIVITIES, THE CONTRACTOR IS REQUIRED TO COMPLETE CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION IN ACCORDANCE WITH THE CITY OF BURLINGTON SPECIFICATIONS (SPEC No.SS7) AND OPSS 409. CONTRACTOR TO SUPPLY MTE CONSULTANTS INC. WITH CCTV VIDEOS IN DVD/CD FORMAT FOR REVIEW AND SUBMISSION TO THE CITY OF BURLINGTON.

2.5. TRENCH DRAIN, GRATE AND CATCHBASIN SHALL BE ACO SYSTEMS CERTIFIED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. PROVIDE TWO 2.0m LONG RUNS OF KS200 KLASSIK DRAIN SLOPED AT 0.5% CENTERED ON A K2-621S CATCH BASIN.TRENCH DRAIN GRATE COVER SHALL BE TYPE 647D LONGITUDINAL STAINLESS STEEL GRATING LOAD CLASS 'B' SECURED WITH 'DRAINLOK' BOLTLESS LOCKING MECHANISM AS MANUFACTURED BY ACO SYSTEMS.

3. SANITARY 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 GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

3.2. SANITARY SEWERS 200mmø TO 600mmø INCLUSIVE SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.

3.3. MANHOLES TO BE 1200mmø PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE SPECIFIED.

3.4. MANHOLES TO BE BENCHED PER OPSD 701.021.

3.5. SANITARY MANHOLE LIDS TO BE PER OPSD 401.010 -TYPE 'A'.

3.6. MANHOLE FRAMES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.

3.7. SANITARY STRUCTURES TO HAVE A MAXIMUM OF THREE ADJUSTMENT UNITS (300mm MAXIMUM TOTAL) AND A MINIMUM OF ONE RISER.

3.8. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SERVICE CONNECTIONS.

3.9. SANITARY SEWERS AND SERVICES TO HAVE MINIMUM 1.4m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL". CONTRACTOR TO CONTACT ENGINEER FOR APPROPRIATE SEWER INSULATION DETAIL. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-1.76 (R10) INSULATING FACTOR (TYPICALLY 50-65mm). INSULATION BOARD WIDTH SHALL BE 1.8m FOR UP TO 200mm NOMINAL PIPE DIAMETER, 2.4m FOR 201mm-800mm DIAMETER AND 3.0m FOR 801mm-1400mm. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL PLACEMENT). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME. ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.

3.10. CONTRACTOR RESPONSIBLE FOR TESTING OF SANITARY SEWERS IN ACCORDANCE WITH OPSS 410.

4. WATERMAINS

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 GRANULAR "A". TRENCH BACKFILL TO BE NATIVE MATERIAL REPLACED IN 300mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

4.2. WATERMAINS 100mmø AND LARGER SHALL BE PVC C900 CLASS 150 INSTALLED WITH MINIMUM 1.7 METRES OF COVER. FITTINGS 100mmø AND LARGER SHALL BE PVC CLASS 150 (DR18) CSA B137.3.

4.3. WATERMAIN FITTINGS TO BE SUPPLIED WITH MECHANICAL JOINT RESTRAINTS. FOR WATERMAIN PIPE SIZES 150mmø OR LESS ALL PIPE JOINTS TO BE RESTRAINED WITHIN 5.0m FROM ALL FITTINGS, IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. FOR WATERMAIN PIPE SIZES GREATER THAN 150mmø ALL PIPE JOINTS TO BE RESTRAINED WITHIN 10.0m FROM ALL FITTINGS, IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. ALL TEES TO HAVE MINIMUM 2.0m SOLID PIPE LENGTH ON EACH RUN OF THE TEE, OR PROVIDE A THRUST BLOCK PER OPSD 1103.010.

4.4. ALL METALLIC FITTINGS (EXCLUDING CURB/MAIN STOP AND BRASS FITTINGS) AND APPURTENANCES INCLUDING SADDLES, VALVES, TEES, BENDS ETC ARE TO BE WRAPPED WITH AN APPROVED PETROLATUM SYSTEM CONSISTING OF PASTE, MASTIC AND TAPE. PARTICULAR ATTENTION SHALL BE PAID TO ANODE INSTALLATION. CONTRACTOR TO REFER TO THE MOST RECENT EDITION OF THE LOCAL MUNICIPALITY AND AREA MUNICIPALITIES DESIGN GUIDELINES AND SUPPLEMENTAL SPECIFICATIONS FOR MUNICIPAL SERVICES.

4.5. WATERMAIN VALVES 100mmø AND LARGER SHALL BE AS PER AWWA C509 - MUELLER A2360-23 OR APPROVED EQUIVALENT (OPEN LEFT) INCLUDING VALVE BOX AND 2.3Kg ANODE INCLUDING ANODE PROTECTION INSTALLED PER LOCAL MUNICIPALITY STANDARDS.

4.6. PVC WATERMAIN SHALL HAVE TWU STRANDED COPPER, AWG8 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.

4.7. MAIN STOPS, CURB STOPS AND COUPLINGS SHALL BE AWWA C-800 COPPER TO COPPER FLANGED OR COMPRESSION CONNECTION OR APPROVED EQUIVALENT.

4.8. SERVICE BOXES TO BE FERGUSON ECLIPSE TYPE FIGURE 222 SIZE NO. 9 OR APPROVED EQUIVALENT COMPLETE WITH ROD AND PLUG.

4.9. WATER CONNECTIONS MAY BE PLACED IN THE SAME TRENCH WITH A STORM OR SANITARY CONNECTION ONLY IF A MINIMUM VERTICAL SEPARATION OF 500mm IS MAINTAINED BETWEEN THE WATER SERVICE AND ANY OTHER PIPE, IN ACCORDANCE WITH SECTION 7.3.5.7.(2)(a)(i) OF THE ONTARIO BUILDING CODE.

4.10. ALL WATERMAINS AND SERVICES TO HAVE MINIMUM 1.7m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED PIPE IN ACCORDANCE WITH APPLICABLE "WATER PIPE INSULATION DETAIL" INDICATED IN DRAWING DETAILS. INSULATION SHALL BE RIGID EXTRUDED POLYSTYRENE (EPS) BOARD, WITH A THICKNESS SUFFICIENT TO PROVIDE AN RSI-3.52 (R20) INSULATING FACTOR (TYPICALLY 100-130mm). INSULATION BOARD WIDTH SHALL BE 2.4m FOR UP TO 200mm NOMINAL PIPE DIAMETER, 3.0m FOR 201mm-305mm DIAMETER. INSULATION BOARD SHALL BE INSTALLED WITH MINIMUM2-LAYERS, OVERLAPPED MINIMUM 300mm AT ALL JOINTS. ALL JOINTS SHALL BE TIGHTLY BUTTED TOGETHER (TAPE OR OTHERWISE SECURE JOINTS TO RESIST MOVEMENT DURING BACKFILL PLACEMENT). RIGID EPS BOARD SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 140kPa (20psi), AND A MAXIMUM WATER ABSORPTION RATE OF 2.0% BY VOLUME.ACCEPTABLE PRODUCTS ARE DOW STYROFOAM-SM OR -HI (FULL LINE), OWENS CORNING FOAMULAR (200, 250, OR HIGHER), PLASTISPAN HD-M28 OR OTHER ENGINEER-APPROVED EQUIVALENT.

4.11. ALL WATERMAIN TO BE PRESSURE TESTED IN ACCORDANCE WITH OPSS 441. DISINFECT ALL WATERMAIN IN ACCORDANCE WITH AWWA C 651-99 INCLUDING CHLORINATION, BACKFLOW PREVENTOR AND 24 HOUR DUPLICATE SAMPLING. ALL TESTING AND DISINFECTION TO BE COMPLETED UNDER THE SUPERVISION OF THE ENGINEER. **(CONTRACTOR TO SUBMIT WATER HALTON REGION COMMISSIONING PLAN IN ACCORDANCE WITH THIS PLAN MUST BE APPROVED BY THE REGION OF HALTON PRIOR TO ANY WATERMAIN WORK).**

4.12. PRIOR TO OCCUPANCY, CONTRACTOR MUST COMMISSION FIRE FLOW TEST FOR PRIVATE ON-SITE HYDRANT. PROVIDE RESULT TO DESIGN ENGINEER.

5. GRADING NOTES

5.1. CHANGES IN GRADES AND CATCH BASINS REQUIRE THE WRITTEN APPROVAL OF THE CONSULTANT AND THE CITY OF BURLINGTON.

5.2. FILTER FABRIC TO BE TERRAFIX 270R OR APPROVED EQUAL.

5.3. MAXIMUM GRASSED SLOPE TO BE 3:1.

5.4. MINIMUM ASPHALT GRADE TO BE 1.0%, MINIMUM GUTTER LINE GRADE TO BE 0.5% UNLESS OTHEWISE NOTED.

5.5. CONTRACTOR TO MATCH EXISTING GRADES AT PROPERTY LINE UNLESS OTHERWISE NOTED. REVISED GRADING DRAWINGS REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF BURLINGTON IF EARTH BERMS ARE TO BE CREATED.

5.6. PRIOR TO REMOVING ANY EXCESS SOILS FROM THE SITE, CONTRACTOR TO CONTACT THE ARCHITECT FOR DIRECTION ON CREATING EARTHEN BERMS ON-SITE.

5.7. ALL LANDSCAPED AREAS ARE TO HAVE A MINIMUM 2.0% SLOPE UNLESS OTHERWISE NOTED.

5.8. DRIVEWAYS TO BE PER CITY OF BURLINGTON STANDARD DRAWINGS S-110 AND S-112.

5.9. RESTORATION LIMITS TO BE DETERMINED ON SITE AFTER CONSTRUCTION.

6. RESTORATIONS

6.1. ALL RESTORATIONS TO CONFORM TO CITY OF BURLINGTON AND REGION OF HALTON STANDARDS.

6.2. RESTORATIONS OF ROAD OVER UTILITY CUTS TO BE AS PER STANDARD DRAWINGS S-114, S-114A AND S-114B. ALL WORKS WITHIN THE MUNICIPAL RIGHT OF WAY MUST BE COMPLETED BY A CONTRACTOR BONDED WITH THE CITY OF BURLINGTON.

6.3. ALL BOULEVARDS AFFECTED BY CONSTRUCTION ACTIVITIES TO BE RESTORED TO EXISTING CONDITIONS OR BETTER WITH #1 NURSERY SOD ON A MINIMUM 150mm OF SELECT TOPSOIL.

6.4. ALL FENCES AFFECTED BY CONSTRUCTION SHALL BE REMOVED, TEMPORARILY RELOCATED AND/OR STOCKPILED IF APPROVED BY THE ENGINEER, AND REINSTATED UPON COMPLETION OF CONSTRUCTION.

7. EROSION AND SEDIMENT CONTROL

7.1. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES AS SHOWN PRIOR TO CONSTRUCTION AND MAINTAIN IN GOOD CONDITION UNTIL CONSTRUCTION IS COMPLETED AND ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE COVER.

7.2. ALL SEDIMENT CONTROL FENCING TO BE INSTALLED PRIOR TO ANY AREA GRADING, EXCAVATING OR DEMOLITION COMMENCING.

7.3. EROSION CONTROL FENCING TO BE INSTALLED AROUND BASE OF ALL STOCKPILES. ALL STOCKPILES TO BE KEPT 2.5m MINIMUM FROM PROPERTY LINE.

7.4. EROSION PROTECTION TO BE PROVIDED AROUND ALL STORM AND SANITARY MHs AND CBs.

7.5. 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 BOULEVARDS SODDED. SEDIMENT TRAPS SHALL ALSO BE PLACED AS PER DETAIL AT ALL CATCH BASINS LOCATIONS IN AREAS TO BE VEGETATED AND MAINTAINED UNTIL GROUND COVER IS ESTABLISHED.

7.6. CONSTRUCTION ACCESS (MUD MAT) TO BE PROVIDED ON-SITE AT ALL LOCATIONS WHERE CONSTRUCTION VEHICLES EXIT THE SITE. CONSTRUCTION ACCESS (MUD MAT) SHALL BE A MINIMUM OF 6.0m WIDE, 20.0m LONG (LENGTH MAY VARY DEPENDING ON SITE LAYOUT) AND 0.3m DEEP AND SHALL CONSIST OF 200mm CLEAR STONE MATERIAL OR APPROVED EQUIVALENT. PROPOSED EROSION FENCING TO TIE INTO MUD MAT. 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.

7.7. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED AS SITE DEVELOPMENT PROGRESSES. CONTRACTOR TO PROVIDE ALL ADDITIONAL EROSION CONTROL STRUCTURES.

7.8. EROSION CONTROL STRUCTURES TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN RESTABILIZED.

7.9. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE ENGINEER AND THE LOCAL MUNICIPALITY'S DEPARTMENT OF PUBLIC WORKS.

7.10. CONTRACTOR TO CLEAN ROADWAY AND SIDEWALKS OF SEDIMENTS RESULTING FROM CONSTRUCTION TRAFFIC FROM THE SITE EACH DAY.

7.11. CONTRACTOR MUST REMOVE EROSION AND SEDIMENTATION FENCING PRIOR TO COMPLETION OF PROJECT. CONTRACTOR TO HAVE EROSION AND SEDIMENTATION FENCE INSPECTED WHEN VEGETATION HAS 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.

7.12. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL B 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.

8. MAINTENANCE RECOMMENDATIONS

8.1. EROSION CONTROL STRUCTURES TO BE MONITORED REGULARLY AND ANY DAMAGE REPAIRED IMMEDIATELY. SEDIMENTS TO BE REMOVED WHEN ACCUMULATIONS REACH A MAXIMUM OF 1/3 THE HEIGHT OF THE FENCE.

8.2. OWNER'S REPRESENTATIVE TO MONITOR EROSION CONTROL STRUCTURES TO ENSURE FENCING IS INSTALLED AND MAINTENANCE IS PERFORMED TO CITY REQUIREMENTS.

8.3. THE PROPOSED STORMCEPTOR(STC) WILL REQUIRE REGULAR ANNUAL MAINTENANCE. OWNER TO ENTER INTO A MAINTENANCE AGREEMENT WITH A SUITABLE CONTRACTOR TO COMPLETE THIS WORK.

REGION OF HALTON SERVICING NOTES

GENERAL NOTES

1. THE LOCATION OF ALL UNDERGROUND AND ABOVEGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THESE DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE LOCATION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
2. ALL AREAS DISTURBED BY THE CONTRACTOR DURING THE CONSTRUCTION OF THE WORKS SHOWN HEREIN SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AS DETERMINED BY PLANNING AND PUBLIC WORKS DEPARTMENT. ALL GRASS AND VEGETATION COVERED AREAS SHALL BE RESTORED BY PLACING 100 mm OF TOPSOIL AND NO. 1 NURSERY SOD TO ESTABLISH A GRASS COVER TO THE SATISFACTION OF THE LOCAL MUNICIPALITY UNLESS NOTED OTHERWISE.
3. LOCAL MUNICIPALITY STANDARDS AND DRAWINGS AND REGION OF HALTON STANDARD DRAWINGS AND O.P.S.D. WITH REGIONAL AMENDMENTS FOR SANITARY SEWERS AND WATERMAINS SHALL CONSTITUTE PART OF THE ENGINEERING DESIGN AND CONSTRUCTION CONTRACT.
4. ALTERNATIVE MATERIALS MAY BE ACCEPTABLE, PROVIDED APPROVAL HAS FIRST BEEN OBTAINED FROM THE CITY/TOWN ENGINEER AND/OR THE REGIONAL COMMISSIONER OF PLANNING AND PUBLIC WORKS.
5. NO BLASTING IS PERMITTED.
6. ANY AREAS WITHIN R.O.W. WHICH REQUIRE FILL IN EXCESS OF 0.30m ARE SUBJECT TO COMPACTION TESTS AND SUCH TESTS MUST SHOW A MIN. COMPACTION OF 95% S.P.D. AT ALL DEPTHS.
7. MANHOLE AND VALVE CHAMBER COVERS ARE TO BE SET FLUSH WITH BASE COURSE ASPHALT AND ADJUSTED TO FINAL GRADE PRIOR TO INSTALLING TOP LIFT OF ASPHALT.
8. ALL TRENCHES WITHIN EXISTING RIGHT-OF-WAY ARE TO BE BACKFILLED IN ACCORDANCE WITH CITY OF BURLINGTON REQUIREMENTS.

SANITARY SEWER NOTES

1. 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.
2. SANITARY SEWER PIPE SHALL BE POLYVINYL CHLORIDE (PVC) PIPE SDR35 CONFORMING TO ASTM-D3034 CSA B182.2 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
3. SANITARY MANHOLES TO BE 1200mm DIAMETER PRECAST WITH ALUMINUM STEPS AT 300mm CENTRES AS PER OPSD 701.010 UNLESS OTHERWISE NOTED.
4. SANITARY MANHOLE FRAMES AND COVERS AS PER O.P.S.D. 401.01 TYPE "A" UNLESS OTHERWISE NOTED ON THE DRAWINGS.
5. BENCHING IN MANHOLES TO BE AS PER O.P.S.D. 701.021 AS AMENDED BY THE REGION OF HALTON. BENCHING IN SANITARY MANHOLES TO BE TO THE OBVERT OF THE PIPE.
6. SAFETY PLATFORMS AS PER O.P.S.D. 404.020 TO BE INSTALLED ONLY IN MANHOLES WHERE DEPTHS EXCEED 10.0M AS DIRECTED BY THE REGION AND AS INDICATED ON THE PROFILE DRAWINGS.
7. SANITARY SERVICE CONNECTIONS TO BE 125mm DIA. FOR SINGLE RESIDENTIAL CONNECTIONS AND 200mm DIA. FOR DUAL RESIDENTIAL AND SINGLE NON-RESIDENTIAL CONNECTIONS. SANITARY SERVICE CONNECTIONS TO BE MINIMUM 2% GRADE AND SHALL BE NON-WHITE IN COLOUR.
8. 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 OF BURLINGTON SPECIFICATIONS (SPEC No.SS7). 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 HE CITY OF BURLINGTON.
9. UPON COMPLETION OF THE CLEANING AND FLUSHING ACTIVITIES, THE CONTRACTOR IS REQUIRED TO COMPLETE CLOSED-CIRCUIT TELEVISION (CCTV) INSPECTION IN ACCORDANCE WITH THE CITY OF BURLINGTON SPECIFICATIONS (SPEC No.SS7) AND OPSS 409. CONTRACTOR TO SUPPLY MTE CONSULTANTS INC. WITH CCTV VIDEOS IN DVD/CD FORMAT FOR REVIEW AND SUBMISSION TO THE CITY OF BURLINGTON.

WATERMAIN NOTES

1. ALL WATERMAIN INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS) AS AMENDED BY THE REGIONAL MUNICIPALITY OF HALTON.
2. 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 200mm LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY AND SHALL CONFORM TO OPSS 401.
3. WATER SERVICE CONNECTIONS TO BE AS PER O.P.S.D. 1104.010 AND O.P.S.D. 1104.020. PIPE FOR ALL SERVICE CONNECTIONS UP TO 50mm DIA. SHALL BE TYPE K SOFT COPPER TUBING.
4. WATERMAINS 150mm TO 300mm DIAMETER TO BE P.V.C. CL150 (DR-18) WITH GASKETED JOINTS.
5. A MIN. HORIZONTAL SEPARATION OF 2.5m MUST BE MAINTAINED BETWEEN WATERMAINS AND SANITARY OR STORM SEWERS, INCLUDING SERVICE LATERALS.
6. A MIN. VERTICAL SEPARATION OF 0.5m BETWEEN WATERMAINS AND SEWERS MUST BE MAINTAINED WHEN WATERMAIN CROSSING UNDER SEWERS.
7. A MIN. VERTICAL SEPARATION OF 0.15m BETWEEN WATERMAIN AND SEWERS MUST BE MAINTAINED WHEN WATERMAIN CROSSING ABOVE SEWERS.
8. ALL METALLIC WATERMAINS, FITTINGS, HYDRANTS AND RESTRAINERS TO HAVE ONE ZINC ANODE PER LENGTH OF PIPE IN SIZES ACCORDING TO TABLE A.7.1 AND INSTALLED IN ACCORDANCE WITH REGION OF HALTON STANDARD DRAWINGS RH 420.01 AND RH 420.02.
9. ALL SACRIFICIAL ANODES SHALL CONFORM TO A.S.T.M. B-418 TYPE II AND SHALL BE MADE OF HIGH GRADE ELECTROLYTIC ZINC, 99.99% PURE.
10. ANODE INSTALLATION IS NOT REQUIRED WITHIN VALVE-CHAMBERS, DRAIN CHAMBERS OR AIR RELEASE CHAMBERS.
11. ALL WELD CONNECTIONS TO BE COATED WITH "TC MASTIC" OR APPROVED EQUIVALENT.
12. FOR ALL ANODES CONNECTED TO NEW PIPE, FITTINGS OR TO EXISTING METALLIC WATERMAINS, A CADWELDER AND CA-15 OR EQUIVALENT CARTRIDGE SHALL BE USED. ANODE INSTALLATION SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
13. WHERE NEW PIPE IS TO BE CONNECTED TO EXISTING DUCTILE IRON OR CAST IRON PIPE A 14.5kg MAGNESIUM ANODE IS TO BE CONNECTED TO THE FIRST LENGTH OF EXISTING PIPE, AS PER REGION OF HALTON STANDARD DRAWING RH 420.01.
14. ALL VALVES TO OPEN LEFT (COUNTER-CLOCKWISE) AND SHALL HAVE 50mm SQUARE STANDARD AWWA OPERATING NUT.
15. ALL PLUGS, CAPS, TEES, AND BENDS SHALL BE MECHANICALLY RESTRAINED AS PER MANUFACTURERS SPECIFICATIONS. RESTRAINTS SHALL MEET UNI-B-13-92. CONCRETE THRUST BLOCKS SHALL ONLY BE USED IN SPECIAL CIRCUMTANCES WITH THE APPROVAL OF THE REGION OF HALTON.
16. RECOMMENDED RESTRAINED LENGTH ARE AS FOLLOWS:

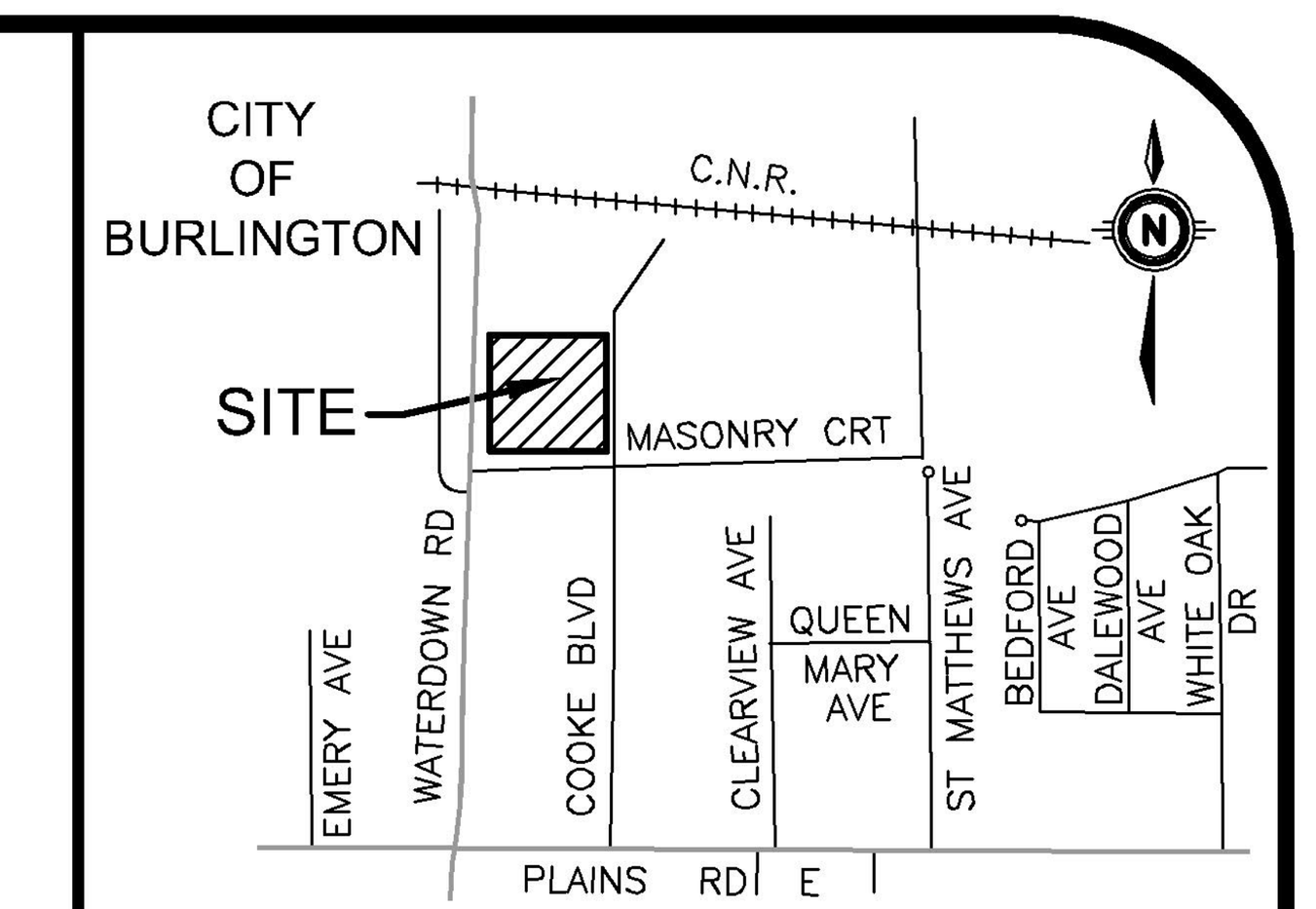
RECOMMENDED RESTRAINED LENGTHS 150mm, 200mm AND 300mm PVC PIPE						
MAIN SIZE	22.5° V. BEND UPPER/LOWER		45° H. BEND	TEE STRAIGHT/BRANCH	G.V. / DEAD END	SOIL TYPE
150mm	2.01m	0.70m	1.62m	BR. ONLY	10.18m	CL
200mm	2.65m	0.91m	2.10m	BR. ONLY	13.29m	CL
300mm	3.81m	1.31m	3.05m	1.98m BR. ONLY	19.23m	CL

17. WHERE WATERMAIN IS PLACED IN FILL OR IN PREVIOUSLY DISTURBED GROUND ALL JOINTS TO BE MECHANICALLY RESTRAINED.
18. MINIMUM DEPTH OF COVER OVER WATERMAIN SHALL BE 1.70m. ON OPEN DITCH OR UNIMPROVED ROADS, AN INCREASED COVER (2.3m MINIMUM) SHALL BE PROVIDED TO ALLOW FOR FUTURE ROAD IMPROVEMENTS OR LOWERING OF THE ROAD PROFILE WHEN URBANIZATION OCCURS. IN AREAS WHERE MINIMUM COVER CANNOT BE ACHIEVED, SPECIAL PROVISION SHALL BE CONSIDERED TO PROTECT PIPE FROM LIVE LOADING AND FREEZING.
19. THE DEPTH OF WATER SERVICES AT PROPERTY LINE SHOULD BE A MINIMUM OF 1.7m AND A MAXIMUM OF 2.0m. THE DISTANCE BETWEEN THE GROUND ELEVATION AND THE TOP OF THE ROD SHOULD BE BETWEEN 0.5m AND 1.0m.
20. GATE VALVES CONFORMING TO A.W.W.A. C500 STANDARDS ARE REQUIRED ON WATERMAINS 300mm AND UNDER. ALL VALVES REQUIRE VALVE BOXES. LINE GATE VALVES SHALL HAVE AUGER OF SCREW TYPE VALVE BOXES.
21. ALL WATERMAIN FITTINGS SHALL HAVE MECHANICAL JOINTS.
22. VERTICAL AND HORIZONTAL ALIGNMENT OF WATERMAIN TO BE ACHIEVED BY DEFLECTION OF JOINTS AS PER MANUFACTURER'S SPECIFICATIONS. DEFLECTION IN THE BARREL IS NOT PERMITTED.
23. TRACER WIRE IS TO BE INSTALLED ON ALL NEW INSTALLATIONS OF PVC WATERMAIN PIPE FOR LOCATING PURPOSES. A SOLID 10 GAUGE T.W.U. COPPER WIRE IS TO BE INSTALLED ALONG THE PIPE, STRAPPED TO THE PIPE AT 6 METRE INTERVALS. JOINTS IN THE WIRE BETWEEN VALVES ARE NOT PERMITTED.
24. THE INSPECTOR MAY TEST THE TRACING WIRE FOR CONDUCTIVITY. IF THE TRACING WIRE IS NOT CONTINUOUS FROM VALVE TO VALVE, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, REPLACE OR REPAIR THE WIRE.
25. 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 AS PER REGION OF HALTON SPECIFICATIONS. NOTIFICATION SHALL TAKE PLACE UNDER THE ENGINEER'S DIRECTION.
26. OPERATION OF EXISTING WATERMAINS SHALL BE BY REGION OF HALTON STAFF ONLY.
27. LOCAL MUNICIPALITY TO SUPPLY WATER METER. CONTRACTOR TO INSTALL CHAMBER, METER, ALL VALVES, PIPING AND REMOTE METER READOUT AT LOCATION ON BUILDING EXTERIOR ACCEPTABLE TO CITY OF BURLINGTON AND REGION OF HALTON.
28. ALL WATERMAIN TO BE PRESSURE TESTED IN ACCORDANCE WITH OPSS 441. DISINFECT ALL WATERMAIN IN ACCORDANCE WITH AWWA C651-99 INCLUDING CHLORINATION, BACKFLOW PREVENTOR AND 24 HOUR DUPLICATE SAMPLING. ALL TESTING AND DISINFECTION TO BE COMPLETED UNDER THE SUPERVISION OF THE ENGINEER.

SEWER CROSSING CHART

NOTE:
1) Maintain minimum 0.5m vertical clearance between all watermains and sewers. Where watermain is deflected, ensure 1.70m cover is achieved or watermain is insulated.
2) Maintain vertical clearance at all other crossings.
3) Existing and proposed watermain depths are approximate only. Notify Design Engineer of any discrepancies.
4) Contractor to verify all existing inverts prior to product ordering. Notify Design Engineer of any discrepancies.

CROSSING #	SEWER TYPE	SEWER SIZE (mmø)	CROSSING ELEVATION	NOTES
X1	WTM	300	OBV=102.39	CAUTION: DEFLECT WTM BELOW EX. SAN
	EX. SAN	300	INV=102.89	
X2	WTM	300	OBV=102.03	CAUTION: DEFLECT WTM BELOW EX. STM
	EX. STM	300	INV=102.53	
X3	SAN	200	OBV=99.81	CAUTION: DEFLECT SAN BELOW EX. STM
	EX. STM	300	INV=101.56	
X4	WTM	300	INV=102.93	CAUTION: DEFLECT WTM ABOVE STM
	EX. STM	600	OBV=101.17	
X5	WTM	300	INV=102.93	CAUTION: DEFLECT WTM ABOVE SAN
	EX. SAN	200	OBV=100.08	
X6	SAN	300	OBV=100.38	CAUTION: DEFLECT SAN BELOW EX. STM
	EX. STM	300	INV=100.89	



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 100.718m
ELEVATIONS ARE REFERRED TO THE CITY OF BURLINGTON BENCHMARK NO. 0011922u2445.

SITE BENCHMARK ELEV. = m

NOTE TO CONTRACTOR :

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4. **THIS PLAN IS PART OF A SET OF PLANS WHICH COMPRISE OF THE FOLLOWING: C1.1, C2.1, C2.2, C2.3, C2.4, C2.5, C2.6 AND THE FSR AND SWM REPORT.**

No.	REVISION	BY	YYYY-MM-DD
8.			
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3.			
2.			
1.	ISSUED FOR ZBA	GPB	2021-11-22

MTE
Engineers, Scientists, Surveyors
905-639-2552

LICENSED PROFESSIONAL ENGINEER
G.P. BERENYI
100058712
2021-11-23
Digital Original
PROVINCE OF ONTARIO
48247-100

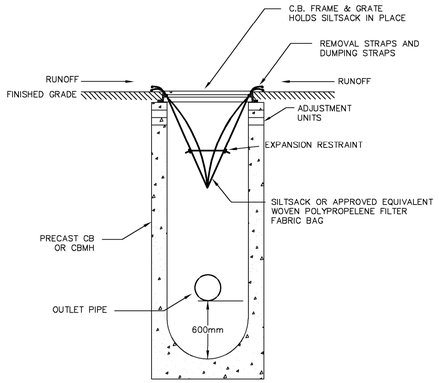
NOT FOR CONSTRUCTION

CLIENT
ADI DEVELOPMENT (MASONRY INC)
1100 BURLOAK DR SUITE 700 BURLINGTON, ON

PROJECT
1120 COOKE BLVD
THREE MULTI-STOREY BUILDING
1120 COOKE BLVD BURLINGTON, ON

DRAWING
NOTES PLAN

Project Manager: G. BERENYI	Project No.: **48247-100**
Design By: EXK	Checked By: GPB
Drawn By: LXQ/DXC	Checked By: LXQ
Surveyed By: OTHERS	Drawing No.: **C2.3**
Date: Jun.23/21	
Scale: AS SHOWN	Sheet 6 of 9

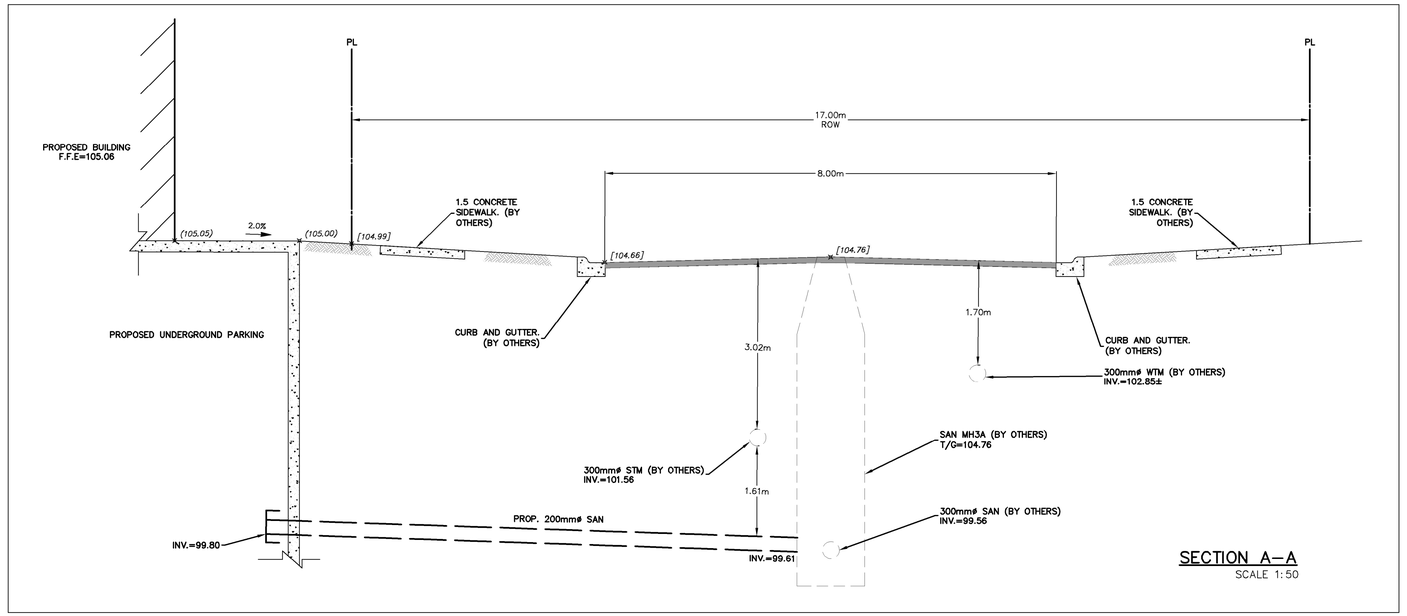


MAINTENANCE SCHEDULE

–INSPECT AFTER EVERY MAJOR RAIN EVENT.
–INSPECT EVERY 3 WEEKS MINIMUM.
–SILTSACK SHOULD NEVER BE OVER HALF FULL.
–FULL BAG CAN BE REMOVED, DUMPED, CLEANED AND REUSED
(TO REMOVE INSERT 25mm REBAR INTO REMOVAL FLAP POCKETS)
(TO DUMP INSERT 25mm REBAR INTO BOTH DUMPING STRAPS)

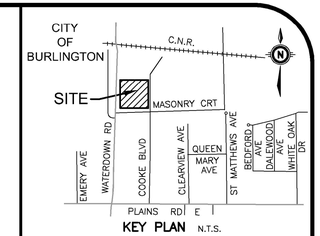
TEMPORARY SILTSACK SILTATION CONTROL IN CB

N.T.S.



SECTION A–A

SCALE 1:50



KEY PLAN N.T.S.

GEODETIC BM **ELEV. = 100.718m**

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SITE BENCHMARK **ELEV. = m**

NOTE TO CONTRACTOR :

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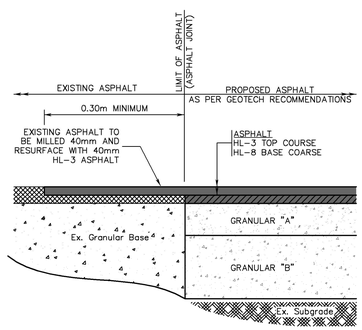
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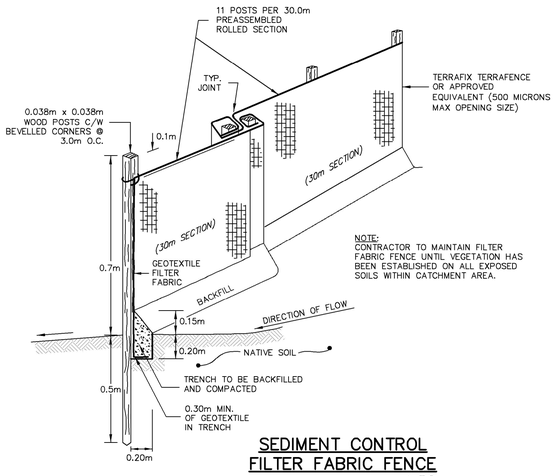
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ASPHALT LAP JOINT DETAIL

N.T.S.

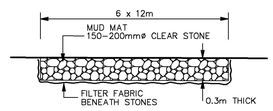


SEDIMENT CONTROL FILTER FABRIC FENCE

N.T.S.

DESIGNATED ACCESS FOR ALL CONSTRUCTION TRAFFIC.

INSTALL 'MUD MAT', AS PER DETAIL BELOW, PRIOR TO ANY OTHER CONSTRUCTION. MAT TO BE MAINTAINED IN GOOD WORKING ORDER UNTIL GRADING WORKS ARE COMPLETED AND GRANULAR "A" & "B" HAVE BEEN PLACED.



CONSTRUCTION ACCESS DETAIL

N.T.S.

No.	REVISION	BY	YYYY-MM-DD
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3.			
2.			
1.	ISSUED FOR ZBA	GPB	2021-11-22

MTE

Engineers, Scientists, Surveyors

905-639-2552

LICENSED PROFESSIONAL ENGINEER G.P. BERENYI 100058712 2021-11-23 Digital Original PROVINCE OF ONTARIO 48247-100

NOT FOR CONSTRUCTION

CLIENT

ADI DEVELOPMENT (MASONRY INC)

1100 BURLOAK DR SUITE 700 BURLINGTON, ON

PROJECT

1120 COOKE BLVD THREE MULTI–STOREY BUILDING

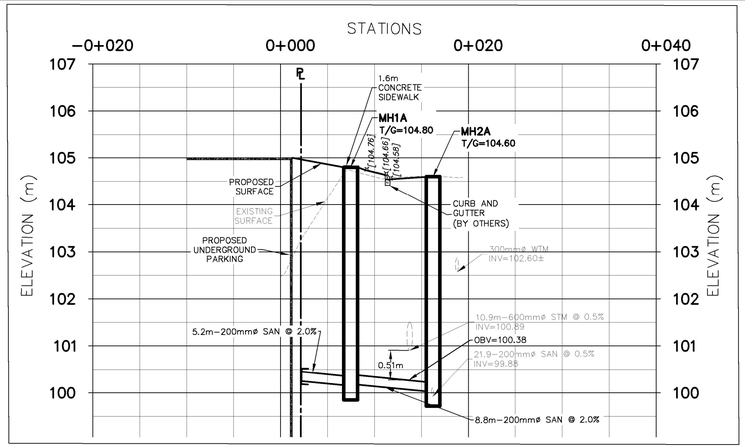
1120 COOKE BLVD BURLINGTON, ON

DRAWING

DETAILS PLAN

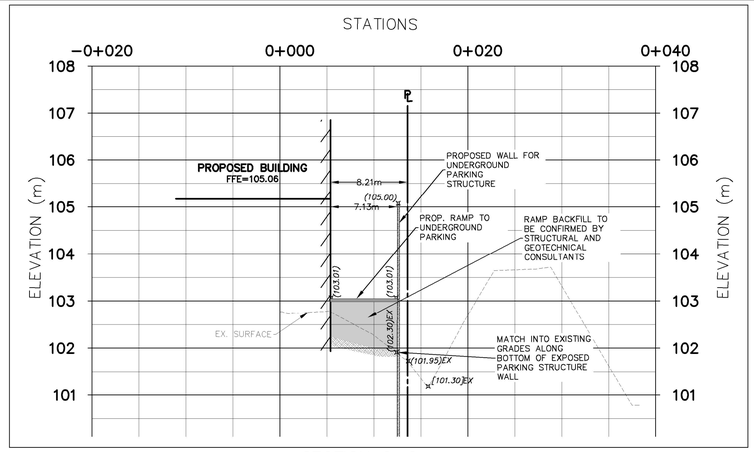
Project Manager G. BERENYI	Project No. 48247-100
Design By EXK	Checked By GPB
Drawn By LXQ/DXC	Checked By LXQ
Surveyed By OTHERS	Drawing No. C2.4
Date Jun.23/21	
Scale AS SHOWN	Sheet 7 of 9

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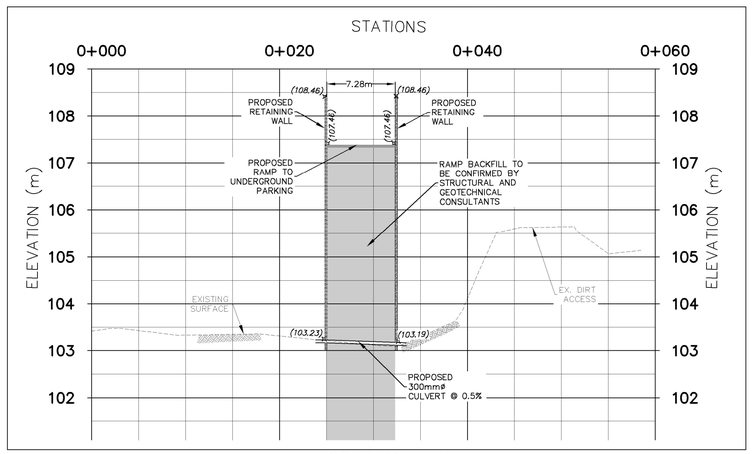
SECTION B–B

SCALE H 1:300
V 1:60



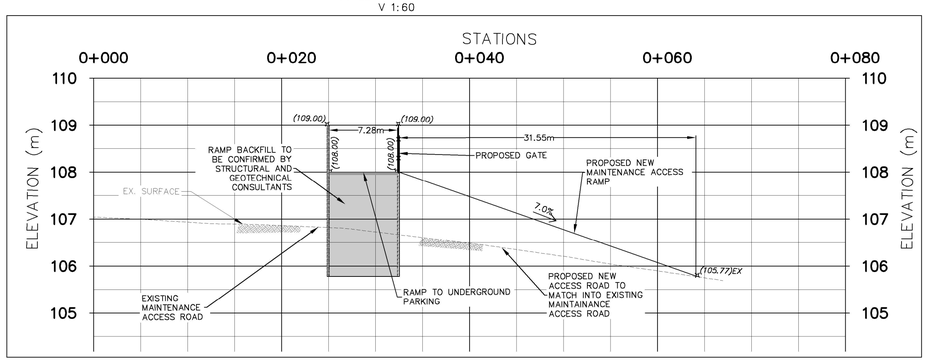
SECTION C–C

SCALE H 1:300
V 1:60



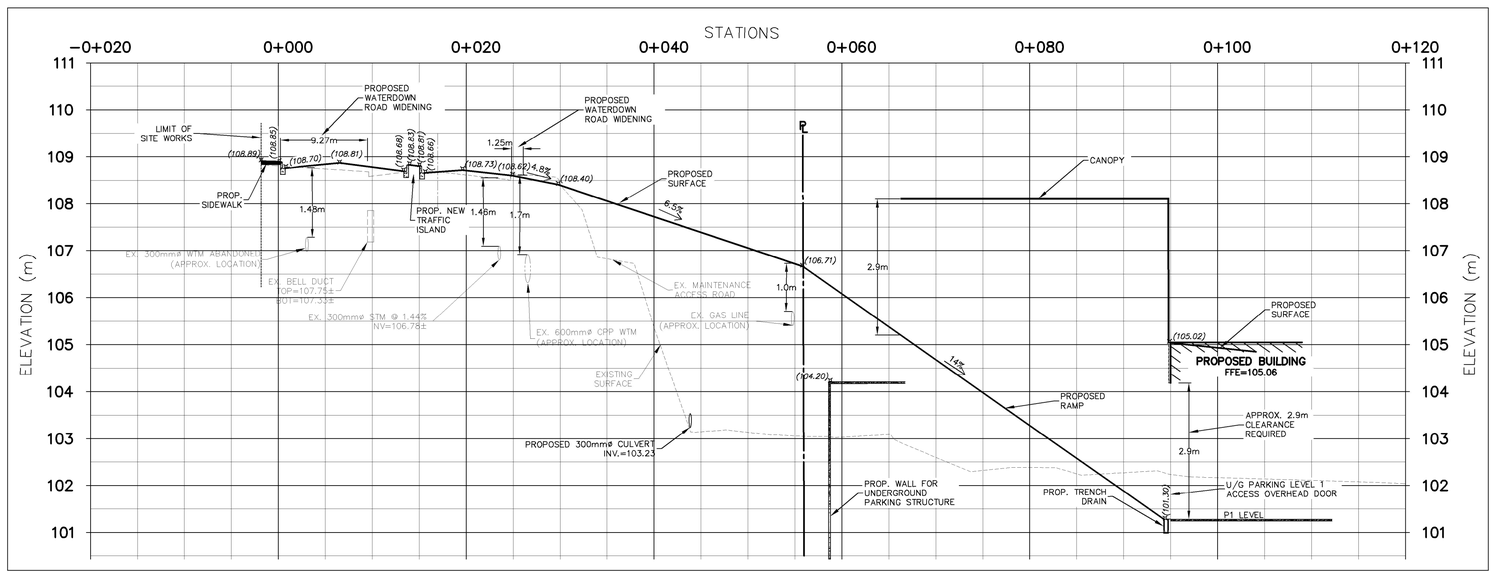
SECTION D–D

SCALE H 1:300
V 1:60



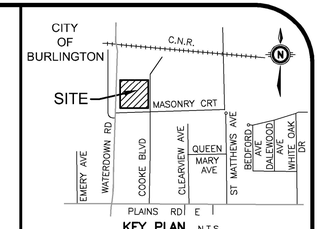
SECTION F–F

SCALE H 1:300
V 1:60



SECTION E–E

SCALE H 1:300
V 1:60



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 100.718m

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SITE BENCHMARK ELEV. = m

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Engineers, Scientists, Surveyors
905-639-2552

LICENSED PROFESSIONAL ENGINEER
G.P. BERENYI
100058712
2021-11-23
Digital Original
PROVINCE OF ONTARIO
48247-100

NOT FOR CONSTRUCTION

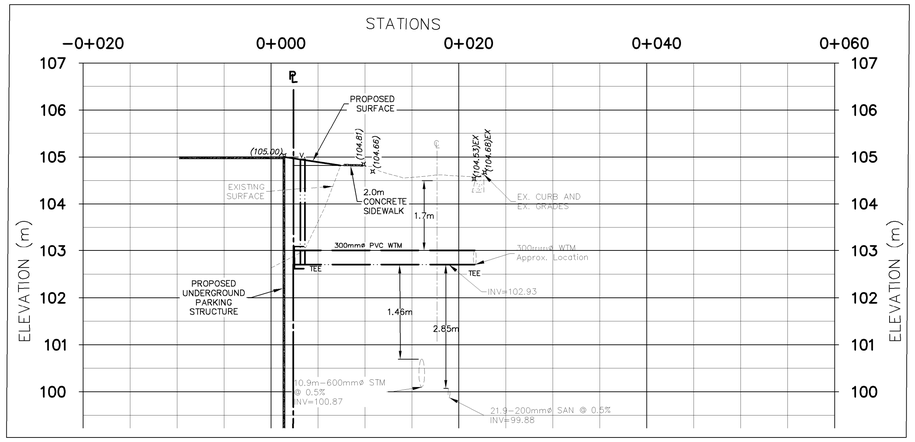
CLIENT
ADI DEVELOPMENT (MASONRY INC)
1100 BURLOAK DR SUITE 700 BURLINGTON, ON

PROJECT
1120 COOKE BLVD
THREE MULTI–STOREY BUILDING
1120 COOKE BLVD BURLINGTON, ON

DRAWING
CROSS SECTIONS PLAN #1

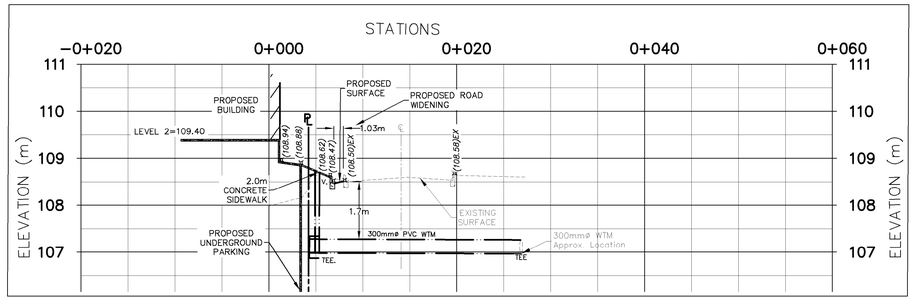
Project Manager: G. BERENYI	Project No.: 48247-100
Design By: EXK	Checked By: GPB
Drawn By: LXQ/DXC	Checked By: LXQ
Surveyed By: OTHERS	Drawing No.: C2.5
Date: Jun.23/21	
Scale: AS SHOWN	Sheet 8 of 9

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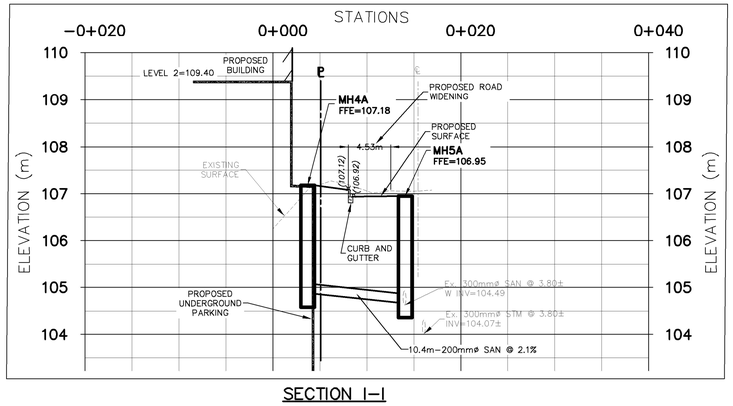
SECTION G−G

SCALE H 1:300
V 1:60



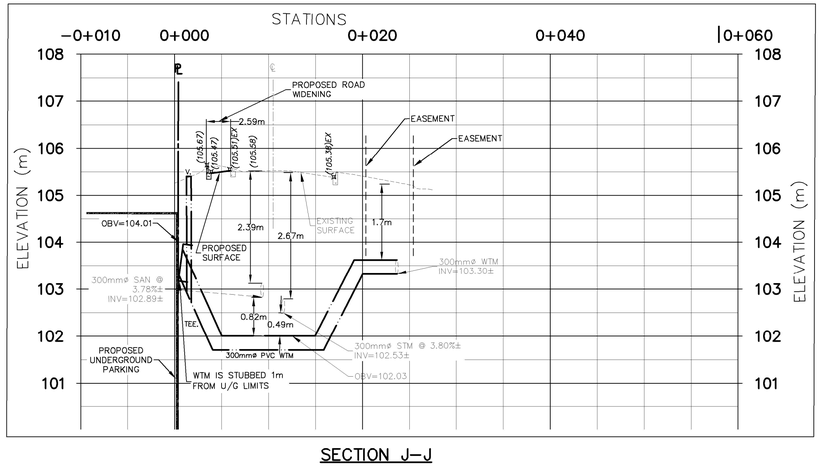
SECTION H−H

SCALE H 1:300
V 1:60



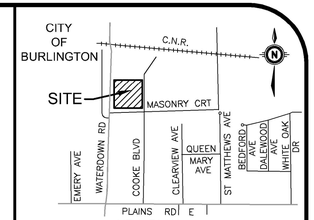
SECTION I−I

SCALE H 1:300
V 1:60



SECTION J−J

SCALE H 1:300
V 1:60



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 100.718m
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SITE BENCHMARK ELEV. = m

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CLIENT
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1100 BURLOAK DR SUITE 700 BURLINGTON, ON

PROJECT
1120 COOKE BLVD
THREE MULTI−STOREY BUILDING
1120 COOKE BLVD BURLINGTON, ON

DRAWING
CROSS SECTIONS
PLAN #2

Project Manager: G. BERENYI	Project No.: 48247-100
Design By: EXK	Checked By: GPB
Drawn By: LXQ/DXC	Checked By: LXQ
Surveyed By: OTHERS	Drawing No.: C2.6
Date: Jun.23/21	
Scale: AS SHOWN	Sheet 9 of 9

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November 23, 2021 − 1:38:26 PM − Plotted By: Taylor Leet