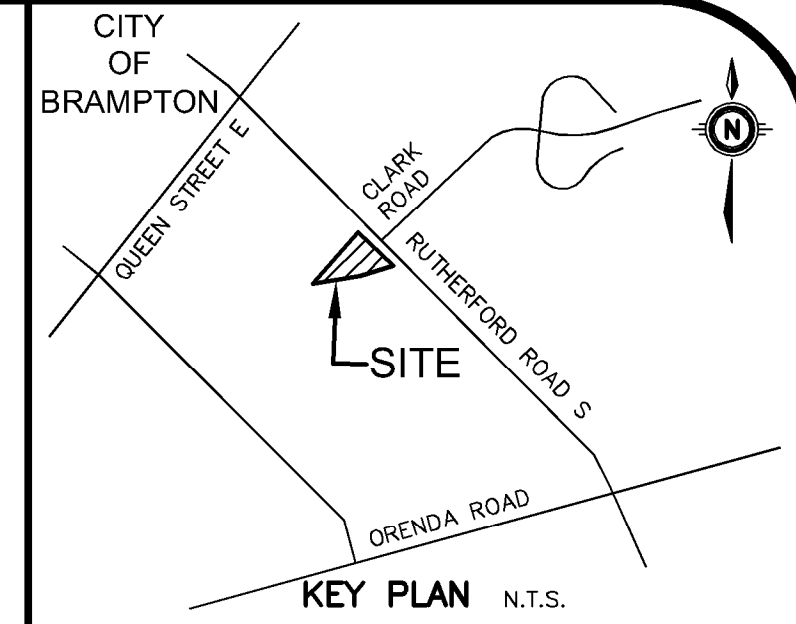


LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EASEMENT
- Ex. 300mm SAN Ex. MH EXISTING SANITARY SEWER
- Ex. 200mm WTM Ex. HYD. SET EXISTING WATERMAIN
- Ex. 375mm SIM Ex. MH EXISTING STORM SEWER
- EXISTING FENCE
- EXISTING RETAINING WALL
- TRCA FLOODPLAIN LIMIT

LEGEND OF PROPOSED FEATURES

- REMOVALS
- ASPHALT SURFACE REMOVALS



GEODETTIC BM ELEV. = 214.332m
 ELEVATIONS SHOWN HERE ARE RELATED TO GEODETTIC DATUM AND ARE DERIVED FROM THE CITY OF BRAMPTON CONTROL MONUMENT NO. 042920177, ELEV. = 207.791, THE MINISTRY OF TRANSPORTATION CONTROL MONUMENT NO. 00820168036, ELEV. = 214.332

SITE BENCHMARK ELEV. = 215.24m
 CUT CROSS IN SIDEWALK ALONG THE SOUTHWEST LIMIT OF RUTHERFORD RD, OPPOSITE A HYDRO POLE LOCATED APPROX. 3m NORTHEAST, AND 30m NORTHWEST OF THE NORTHEASTERN CORNER OF SUBJECT PROPERTY.

NOTE TO CONTRACTOR :
 DO NOT SCALE DRAWINGS.
 CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.
 THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

- NOTE:**
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 - EXISTING TOPOGRAPHICAL INFORMATION PROVIDED BY J D BARNES SURVEYING MAPPING GIS DATED FEBRUARY 13TH.
 - INVERTS DENOTED WITH "±" ARE TAKEN FROM DWGS PROVIDED BY J D BARNES SURVEYING MAPPING GIS AND ARE CONSIDERED APPROXIMATE ONLY. CONTRACTOR TO FIELD VERIFY AND REPORT ANY DISCREPANCIES TO ENGINEER.

11. ISSUED FOR CONSTRUCTION	MUG	2021-12-20
10. ISSUED FOR SITE PLAN RESUBMISSION & ADDENDUM #1	KRR	2021-10-18
9. ISSUED FOR SITE PLAN RESUBMISSION	KRR	2021-09-09
8. ISSUED FOR TENDER	MUG	2021-08-12
7. ISSUED FOR BUILDING PERMIT	MUG	2021-07-27
6. ISSUED FOR 80% CD	HKE	2021-05-04
5. REISSUED FOR SPA	HKE	2021-04-23
4. ISSUED FOR SPA	HKE	2021-02-12
3. ISSUED FOR 50% CONSTRUCTION DOCUMENTS	HKE	2021-02-05
2. ISSUED FOR 100% DESIGN DEVELOPMENT	HKE	2021-01-19
1. ISSUED FOR SCHEMATIC DESIGN	HKE	2020-12-22
No. R E V I S I O N	BY	YYYY-MM-DD



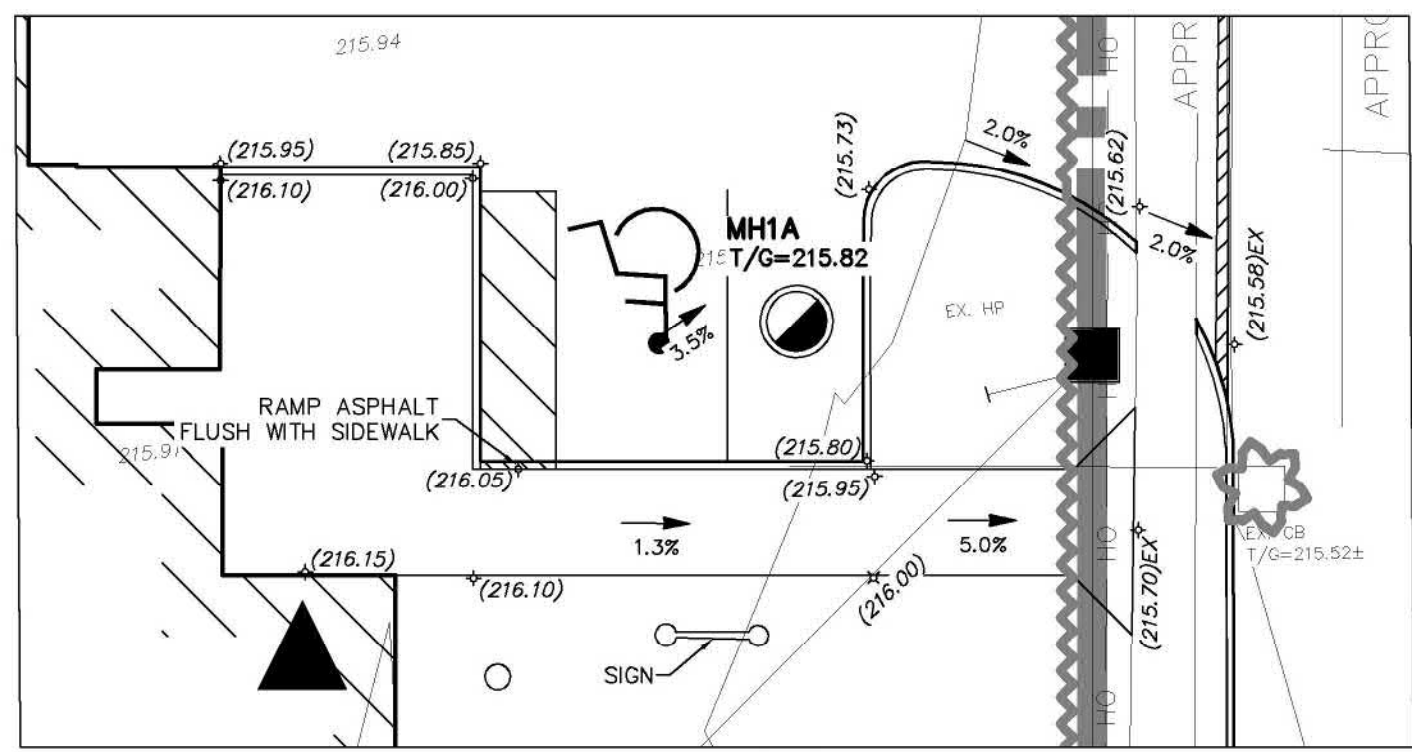
905-639-2552

CLIENT
SALTER PILON ARCHITECTURE INC.
 151 FERRIS LANE SUITE 400 BRAMPTON
 PROJECT CITY FILE #: SPA-2021-0032
BRAMPTON FIRE STATION
 201 NEW BUILDING
 27 RUTHERFORD ROAD SOUTH BRAMPTON

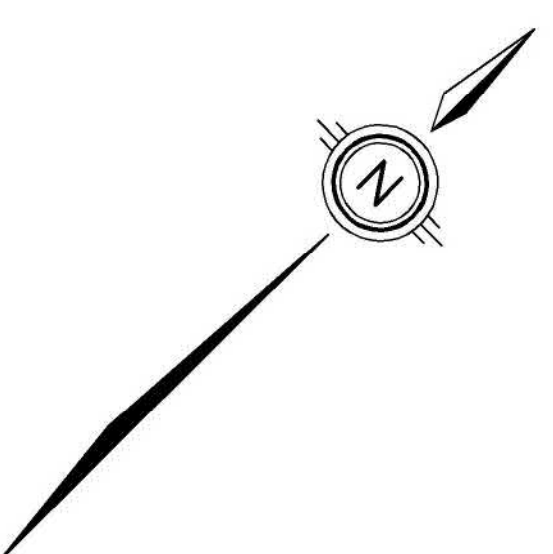
EXISTING CONDITIONS & REMOVALS PLAN

Project Manager	K.RAMSEWAK	Project No.	48015-100
Design By	LFG	Checked By	KRR
Drawn By	SXW	Checked By	LFG
Surveyed By	OTHERS	Drawing No.	
Date	Oct.14/21	C1.1	
Scale	1:300	Sheet	1 of 4

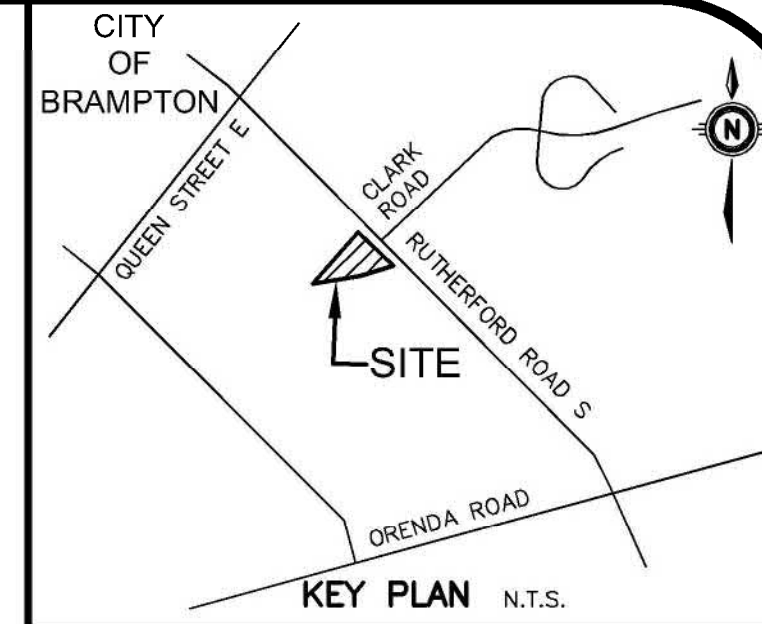
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MTE FILE PATH:
December 20, 2021 - 11:58:04 AM - Plotted By: Laura Galati



DETAIL 'A'
SCALE: 1:150



EXISTING BUILDING (APPROXIMATE LOCATION)



KEY PLAN N.T.S.

GEODETIC BM ELEV. = 214.332m
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SITE BENCHMARK ELEV. = 215.24m
CUT CROSS IN SIDEWALK ALONG THE SOUTHWEST CORNER OF RUTHERFORD RD, OPPOSITE A HYDRO POLE LOCATED APPROX. 3m NORTHEAST, AND 30m NORTHWEST OF THE NORTHEASTERN CORNER OF SUBJECT PROPERTY.

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CONSTRUCT DRIVEWAY AND CURBS PER CITY OF BRAMPTON STANDARD 237 'STANDARD VEHICLE ACCESS'
REMOVE AND REPLACE EX. FULL CURB WITH DROP CURB 19m

THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT M.T.E. CONSULTANTS INC. CANNOT CERTIFY ANY COMPONENT OF THE SITE WORKS NOT INSPECTED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY M.T.E. CONSULTANTS INC. PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

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No.	REVISION	BY	DATE
11.	ISSUED FOR CONSTRUCTION		MUG 2021-12-20
10.	ISSUED FOR SITE PLAN RESUBMISSION & ADDENDUM #1	KRR	2021-10-18
9.	ISSUED FOR SITE PLAN RESUBMISSION	KRR	2021-09-09
8.	ISSUED FOR TENDER	MUG	2021-08-12
7.	ISSUED FOR BUILDING PERMIT	MUG	2021-07-27
6.	ISSUED FOR 90% CD	HKE	2021-05-04
5.	RESUBMITTED FOR SPA	HKE	2021-04-23
4.	ISSUED FOR SPA	HKE	2021-02-12
3.	ISSUED FOR 50% CONSTRUCTION DOCUMENTS	HKE	2021-02-05
2.	ISSUED FOR 100% DESIGN DEVELOPMENT	HKE	2021-01-19
1.	ISSUED FOR SCHEMATIC DESIGN	HKE	2020-12-22
No.	REVISION	BY	DATE



905-639-2552



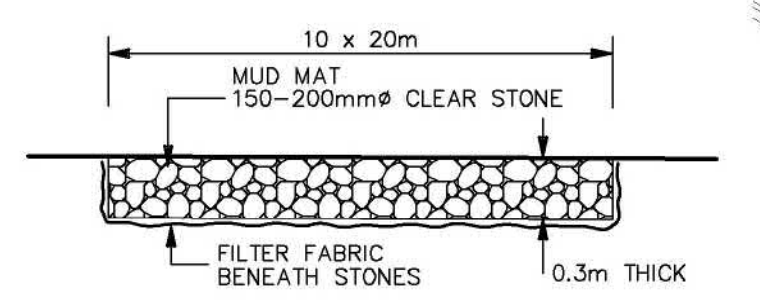
CLIENT
SALTER PILON ARCHITECTURE INC.
151 FERRIS LANE SUITE 400 BRAMPTON
PROJECT CITY FILE #: SPA-2021-0032
BRAMPTON FIRE STATION
201 NEW BUILDING
27 RUTHERFORD ROAD SOUTH BRAMPTON

DRAWING
SITE GRADING PLAN
Project Manager: K.RAMSEWAK Project No: 48015-100
Design By: LFG Checked By: KRR
Drawn By: SXW Checked By: LFG
Surveyed By: OTHERS Drawing No:
Date: Oct.14/21 **C2.1**
Scale: 1:300 Sheet 2 of 4

LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EASEMENT
- EXISTING SPOT ELEVATIONS/CONTOURS
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING RIP RAP
- EXISTING DIRECTION OF DRAINAGE
- TRCA FLOODPLAIN LIMIT

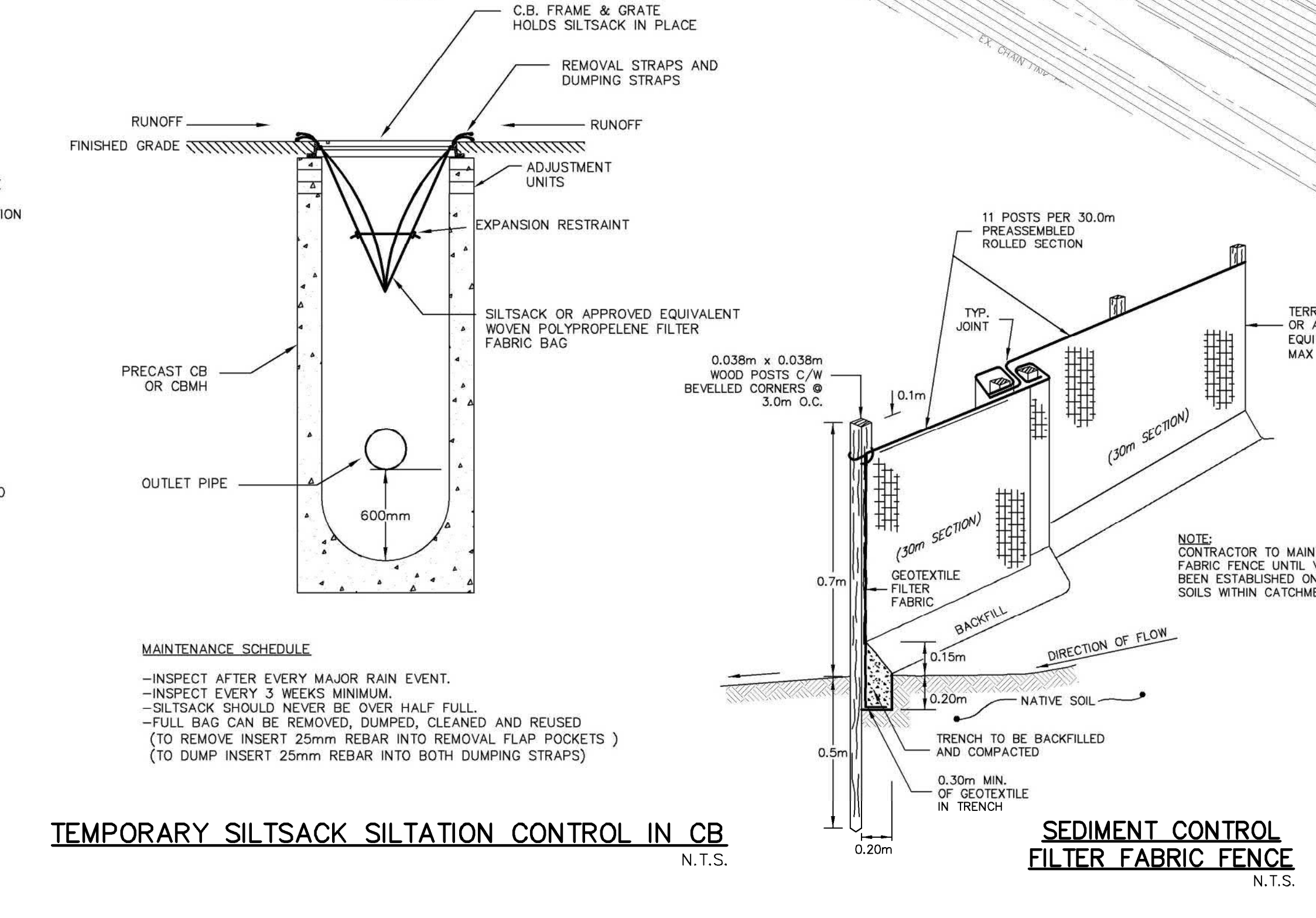
DESIGNATED ACCESS FOR ALL CONSTRUCTION TRAFFIC. INSTALL MUD MAT, AS PER DETAIL BELOW, PRIOR TO ANY OTHER CONSTRUCTION. MAT TO BE MAINTAINED IN GOOD WORKING ORDER UNTIL GRADING WORKS ARE COMPLETED AND GRANULAR "A" & "B" HAVE BEEN PLACED.



CONSTRUCTION ACCESS DETAIL N.T.S.

LEGEND OF PROPOSED FEATURES

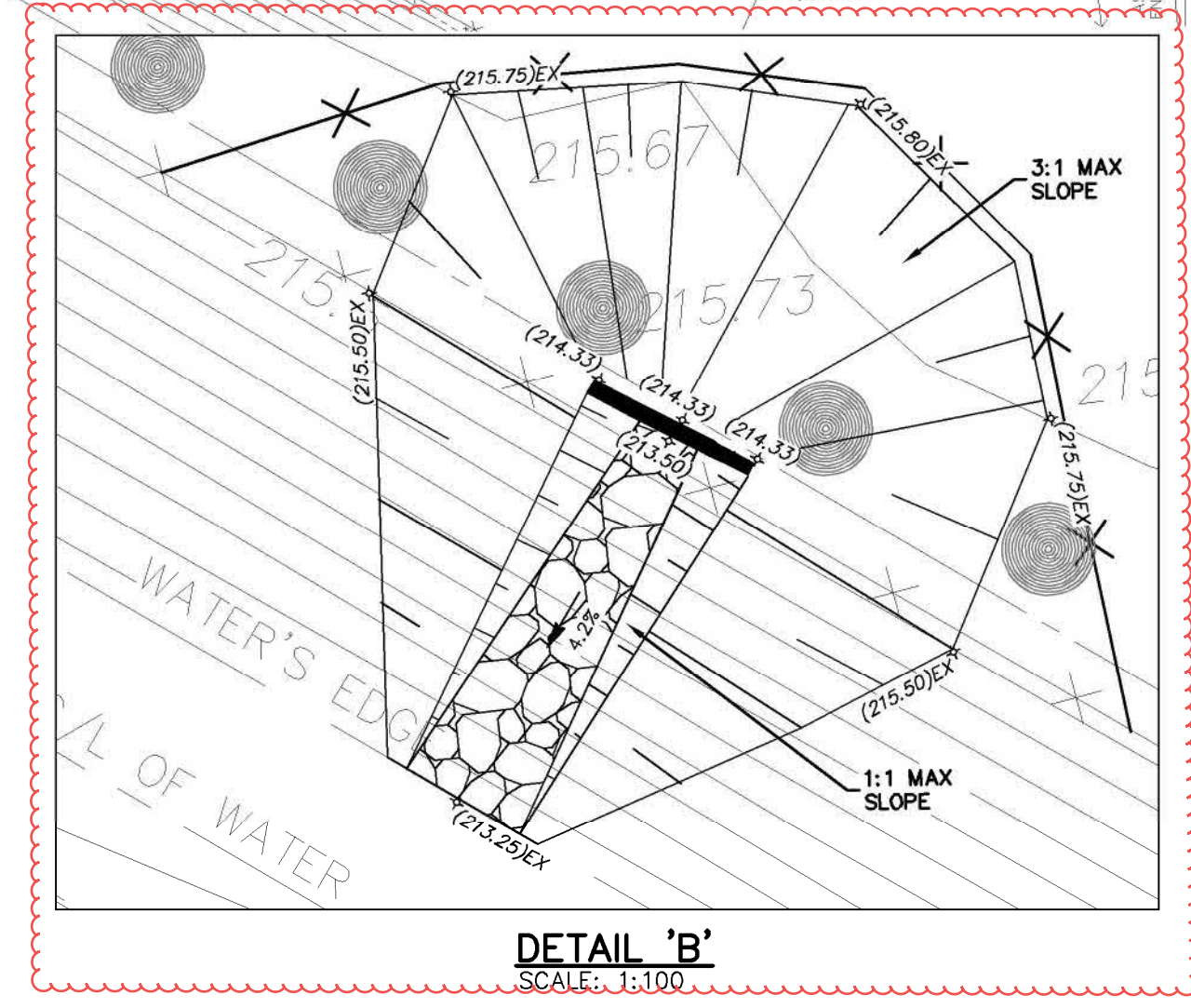
- PROPOSED SPOT ELEVATIONS EX = MAINTAIN EXISTING T/G = TOP OF CASTING/GRATE INV = INVERT ELEVATION FFE = FINISHED FLOOR ELEVATION
- DIRECTION OF DRAINAGE
- DRAINAGE SPLIT (RIDGE)
- PROPOSED BUILDING
- OVERHEAD DOOR
- MAN DOOR
- CONCRETE CURB DROP CURB PER OPSD 600.110
- RETAINING WALL
- PROPOSED BOLLARD
- PROPOSED RIP RAP (SIZE & TYPE AS NOTED)
- OVERLAND FLOW ROUTE (MAJOR STORM)
- SEDIMENT CONTROL FENCE (SEE DETAIL ON C2.3)
- SILT SACK (SEE DETAIL ON C2.3)
- CONSTRUCTION ACCESS (SEE DETAIL ON C2.3)
- EMBANKMENT (SLOPE AS NOTED)



TEMPORARY SILTSACK SILTATION CONTROL IN CB N.T.S.

SEDIMENT CONTROL FILTER FABRIC FENCE N.T.S.

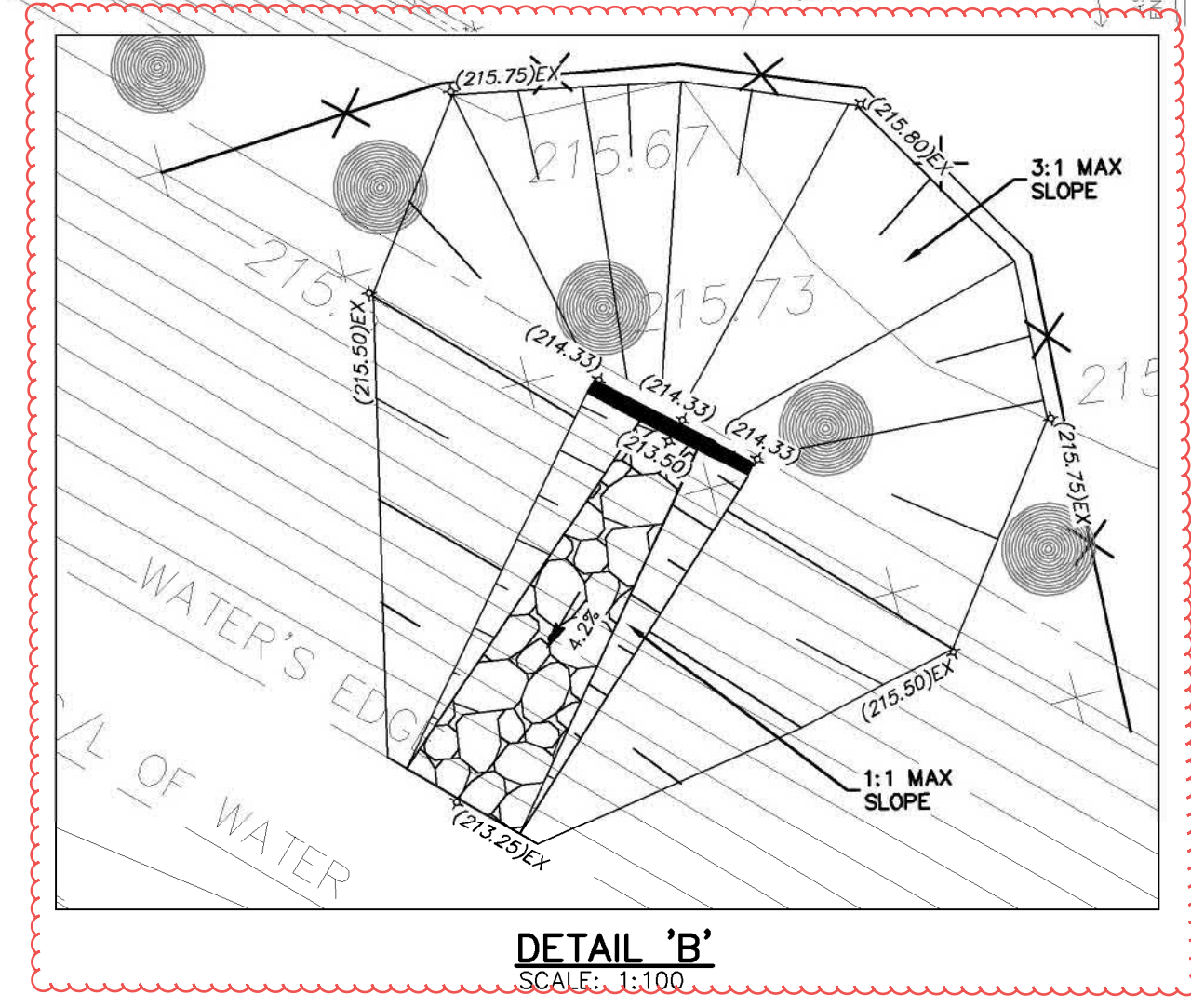
MAINTENANCE SCHEDULE
-INSPECT AFTER EVERY MAJOR RAIN EVENT.
-INSPECT EVERY 3 WEEKS MINIMUM.
-SILT SACK SHOULD NEVER BE OVER HALF FULL.
-FULL BAG CAN BE REMOVED, DUMPED, CLEANED AND REUSED (TO REMOVE INSERT 25mm REBAR INTO REMOVAL FLAP POCKETS)
-TO DUMP INSERT 25mm REBAR INTO BOTH DUMPING STRAPS



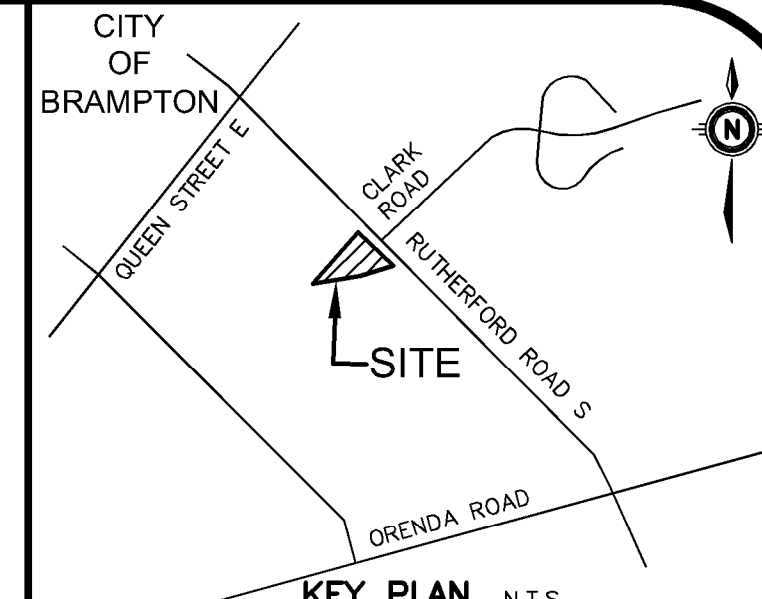
DETAIL 'B'
SCALE: 1:100

CLARK BLVD

RUTHERFORD RD



WATER'S EDGE



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No.	REVISION	BY	DATE
11.	ISSUED FOR CONSTRUCTION	MJG	2021-12-20
10.	ISSUED FOR SITE PLAN RESUBMISSION & ADDENDUM #1	KRR	2021-10-18
9.	ISSUED FOR SITE PLAN RESUBMISSION	KRR	2021-09-09
8.	ISSUED FOR TENDER	MJG	2021-08-12
7.	ISSUED FOR BUILDING PERMIT	MJG	2021-07-27
6.	ISSUED FOR 80% CD	HKE	2021-05-04
5.	RESUBMITTED FOR SPA	HKE	2021-04-23
4.	ISSUED FOR SPA	HKE	2021-02-12
3.	ISSUED FOR 50% CONSTRUCTION DOCUMENTS	HKE	2021-02-05
2.	ISSUED FOR 100% DESIGN DEVELOPMENT	HKE	2021-01-19
1.	ISSUED FOR SCHEMATIC DESIGN	HKE	2020-12-22
No.	REVISION	BY	DATE



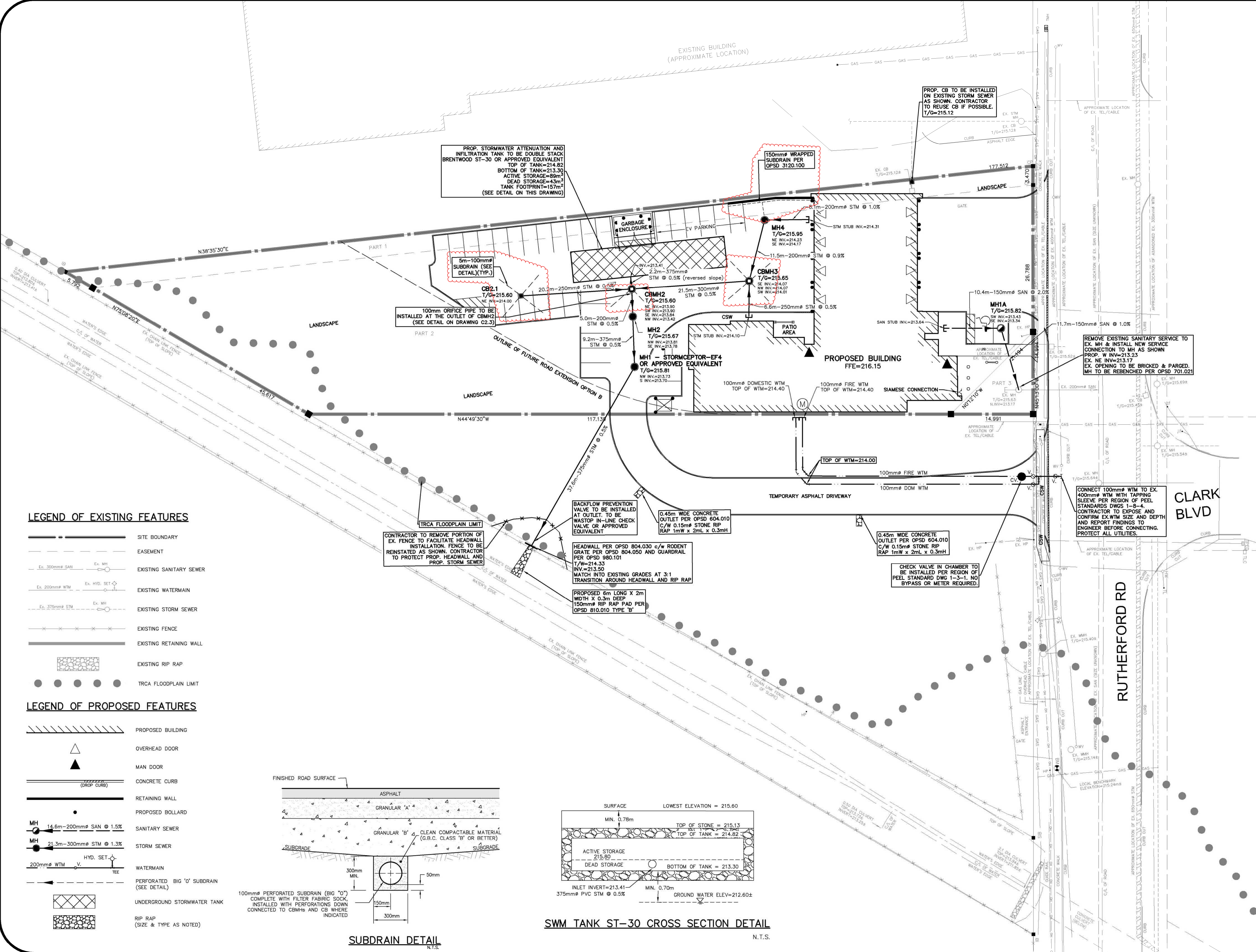
905-639-2552



CLIENT
SALTER PILON ARCHITECTURE INC.
 151 FERRIS LANE SUITE 400 BRAMPTON
 PROJECT CITY FILE #: SPA-2021-0032
BRAMPTON FIRE STATION
 201 NEW BUILDING BRAMPTON

DRAWING SITE SERVICING PLAN

Project Manager	K.RAMSEWAK	Project No.	48015-100
Design By	LFG	Checked By	KRR
Drawn By	SXW	Checked By	LFG
Surveyed By	OTHERS	Drawing No.	
Date	Oct.14/21	C2.2	
Scale	1:300	Sheet 3 of 4	

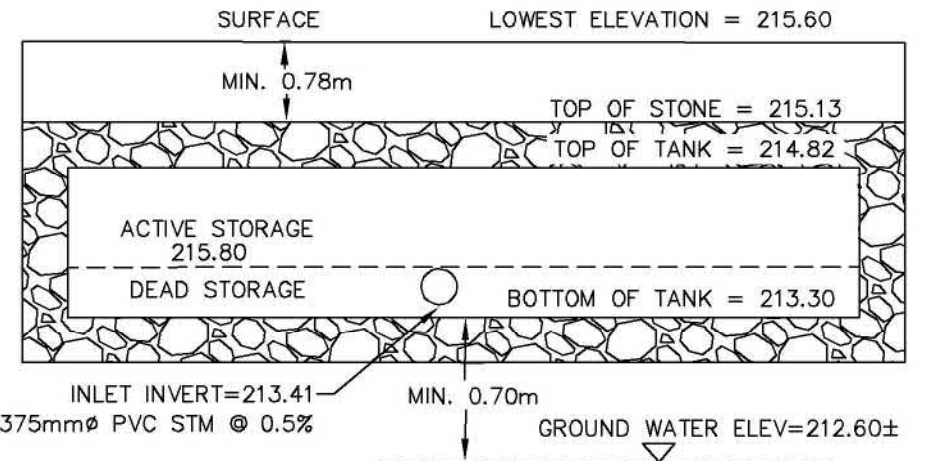
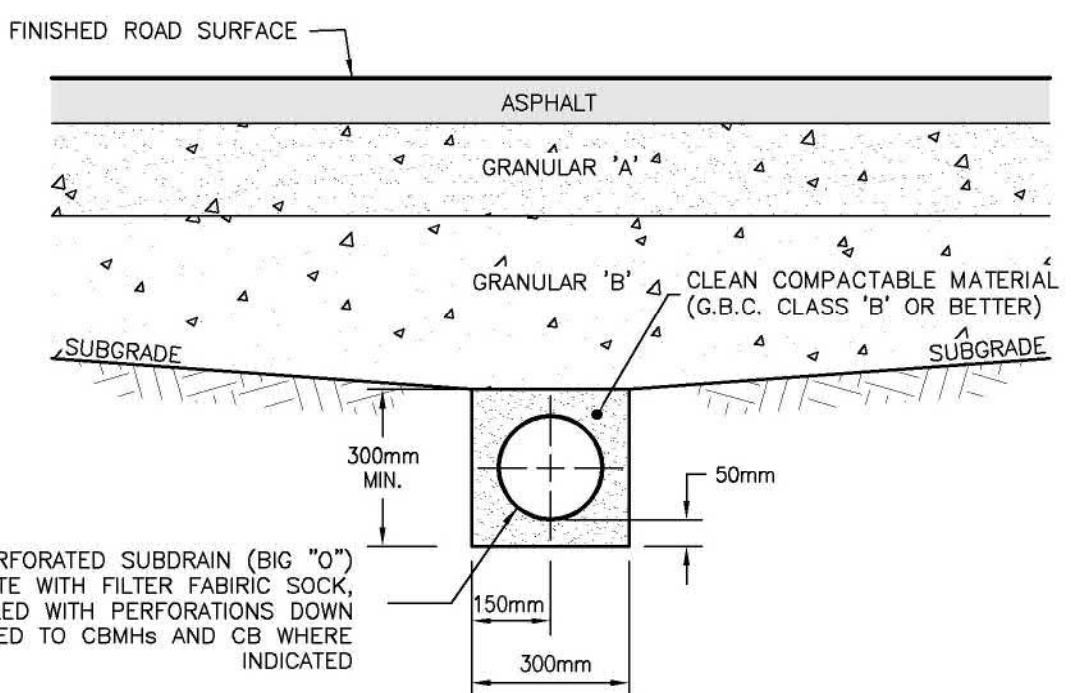


LEGEND OF EXISTING FEATURES

- SITE BOUNDARY
- EASEMENT
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- EXISTING FENCE
- EXISTING RETAINING WALL
- EXISTING RIP RAP
- TRCA FLOODPLAIN LIMIT

LEGEND OF PROPOSED FEATURES

- PROPOSED BUILDING
- OVERHEAD DOOR
- MAN DOOR
- CONCRETE CURB
- RETAINING WALL
- PROPOSED BOLLARD
- SANITARY SEWER
- STORM SEWER
- WATERMAIN
- PERFORATED 'BIG O' SUBDRAIN (SEE DETAIL)
- UNDERGROUND STORMWATER TANK
- RIP RAP (SIZE & TYPE AS NOTED)



SWM TANK ST-30 CROSS SECTION DETAIL N.T.S.

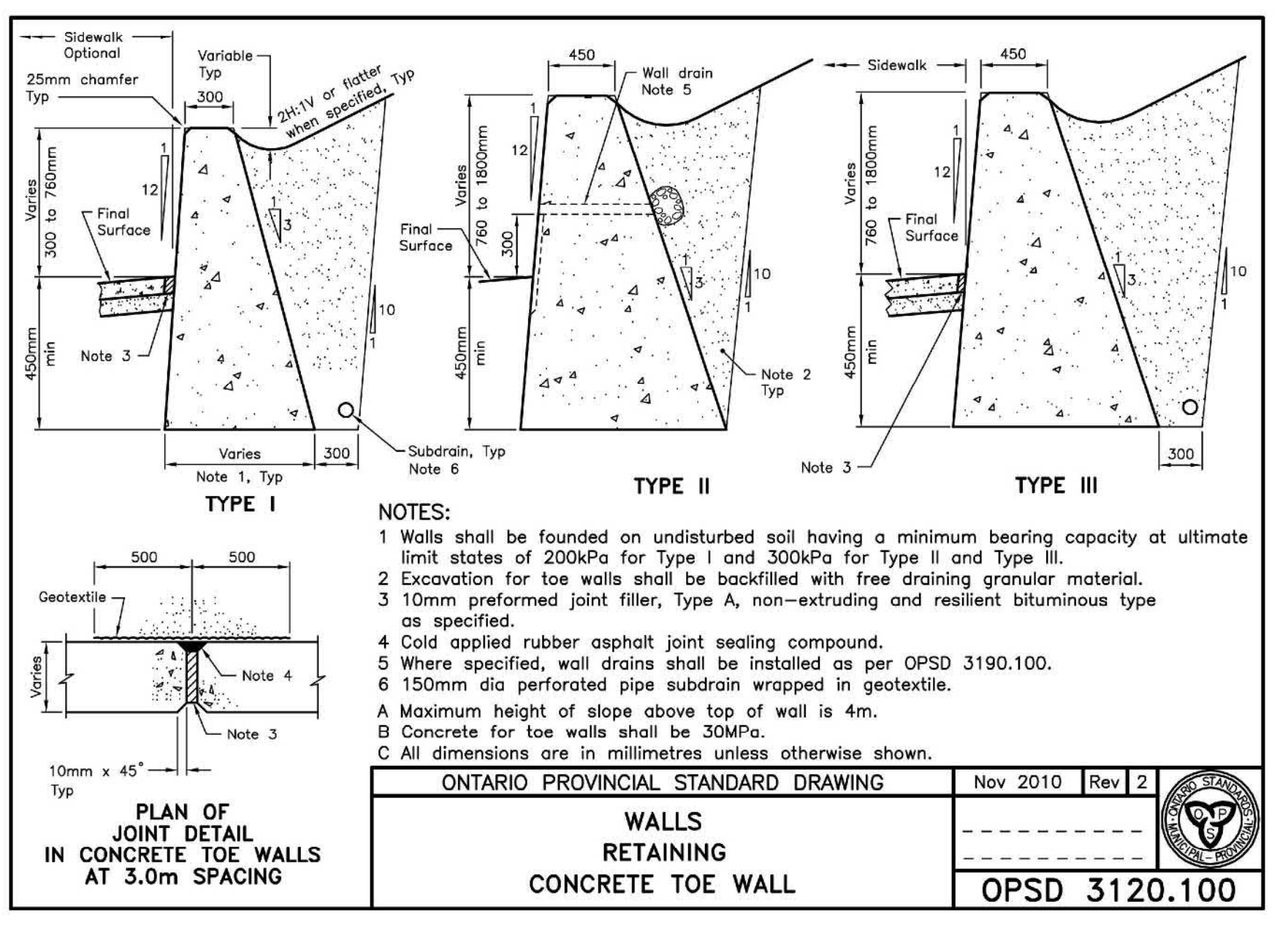
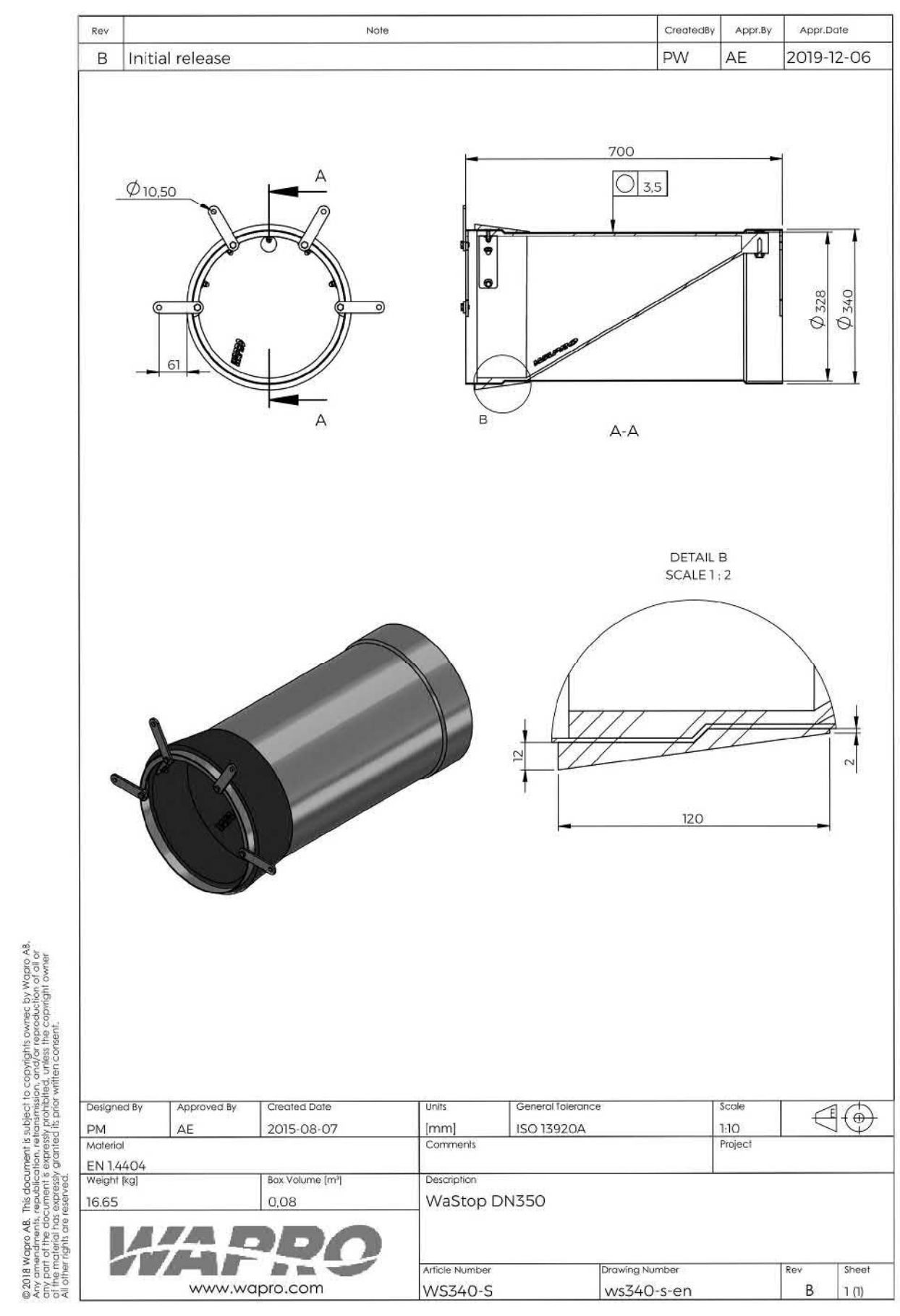
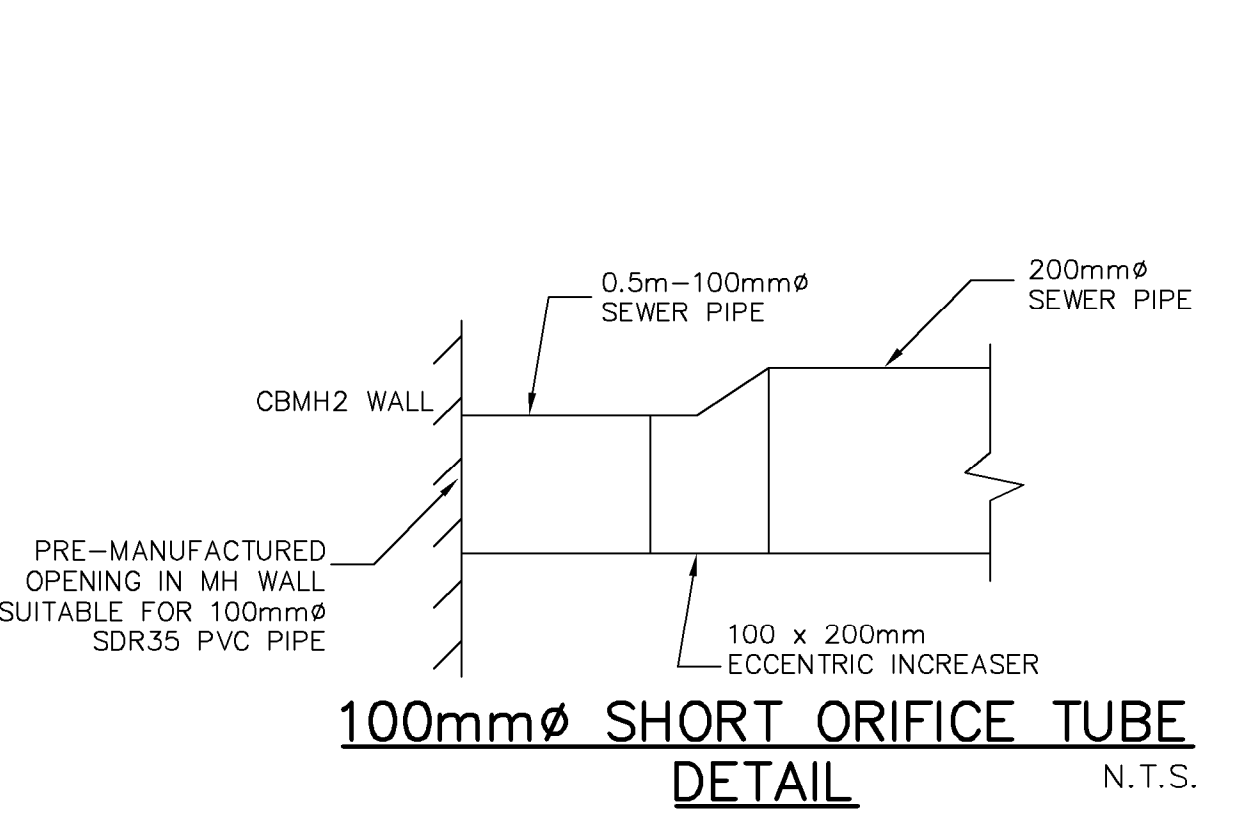
P:\48015\100\48015-100-C2

December 20, 2021 - 16:52:21 AM - Plotted By: Laura Golati

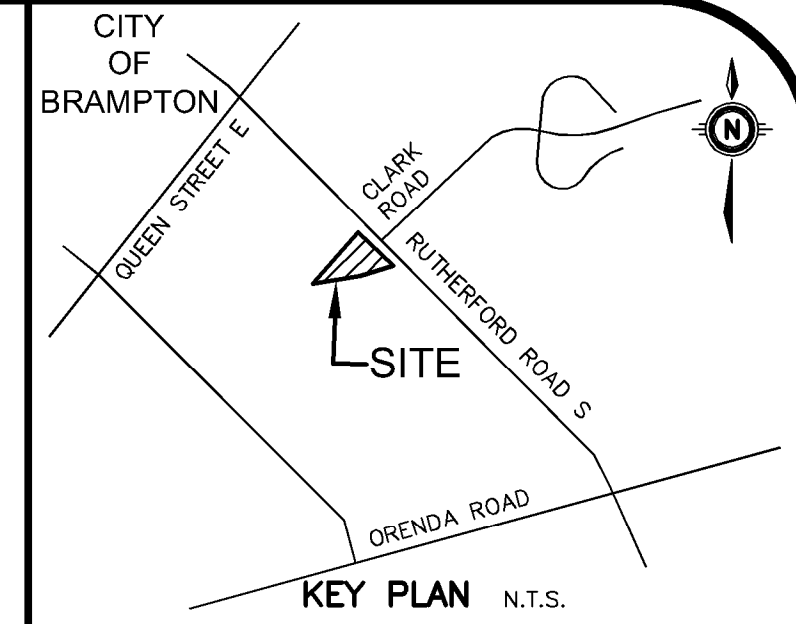
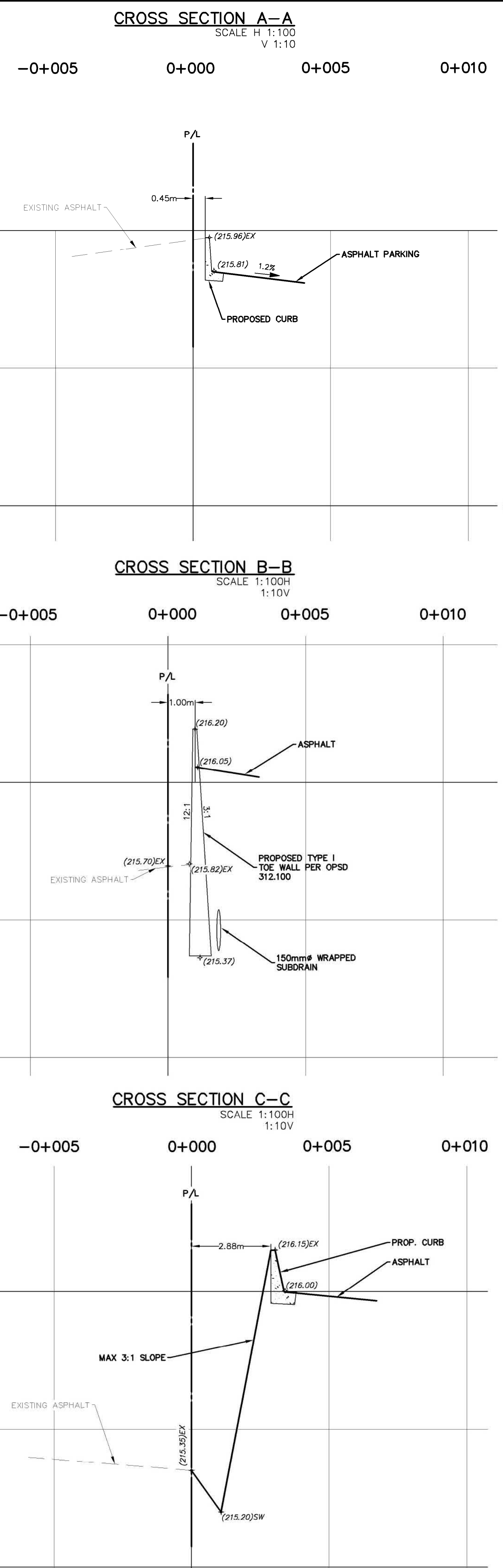
CONSTRUCTION NOTES AND SPECIFICATIONS

- 1. GENERAL
1.1. THIS/THOSE PLANS/IS/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. PRIOR TO CONSTRUCTION, THE CONTRACTOR MUST:
1.5.1. 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.
1.5.2. OBTAIN ALL UTILITY LOCATES AND REQUIRED PERMITS AND LICENSES.
1.5.3. VERIFY THAT THE FINISHED FLOOR ELEVATIONS AND BASEMENT FLOOR ELEVATIONS (WHICH MAY APPEAR ON THIS PLAN) COMPLY WITH THE FINAL ARCHITECTURAL DRAWINGS.
1.5.4. CONFIRM ALL DRAWINGS USED FOR CONSTRUCTION ARE OF THE MOST RECENT REVISION.
1.6. 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.
1.7. 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. ALL BOULEVARD AREAS SHALL BE RESTORED WITH 150mm TOPSOIL AND SOD.
1.8. 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 THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND THE REGIONAL MUNICIPALITY OF WATERLOO; WHICH CODES AND REGULATIONS SHALL SUPERSEDE ALL OTHERS.
1.9. 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 4.2.2, GENERAL REVIEW. FAILURE TO NOTIFY ENGINEER WILL RESULT IN EXTENSIVE POST CONSTRUCTION INSPECTION AT CONTRACTORS EXPENSE.
1.10. SANITARY AND STORM SEWERS AND SERVICES TO HAVE A MINIMUM 1.4m COVER TO 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" INDICATED IN DRAWING DETAILS. CONTACT DESIGN ENGINEER FOR "SEWER PIPE INSULATION DETAIL" IF REQUIRED.
1.11. PLAN TO BE READ IN CONJUNCTION WITH SWM BRIEF AND DRAWINGS C2.1 AND C2.2 PREPARED BY MTE CONSULTANTS INC. AND LANDSCAPE PLAN.
1.12. SITE PLAN INFORMATION TAKEN FROM PLAN PREPARED BY SALTER PILON ARCHITECTURE DATED 2021-01-19.
1.13. EXISTING TOPOGRAPHIC AND LEGAL INFORMATION TAKEN FROM PLAN PREPARED BY J.D.BARNES LTD, DATED 2018-05-07. MTE ASSUMES THAT ALL TOPOGRAPHICAL INFORMATION IS AN ACCURATE REPRESENTATION OF CURRENT CONDITIONS.
1.14. CONTRACTOR TO OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNER PRIOR TO ENTERING UPON NEIGHBORING 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.
1.15. SITE SERVICING CONTRACTOR TO TERMINATE ALL SERVICES 1 METRE FROM FOUNDATION WALL.
1.16. FILTER FABRIC TO BE TERRAFIX 200R OR APPROVED EQUAL.
1.17. MAXIMUM GRASSED SLOPE TO BE 3:1. SLOPES GREATER THAN 3:1 TO BE LANDSCAPED WITH LOW MAINTENANCE GROUND COVER.
1.18. 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 SLOWSLLOWS FROM NESTING.
1.19. 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.
1.20. THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
1.21. CONTRACTOR TO MAINTAIN A 'CONFINED TRENCH CONDITION' IN ALL SEWER AND SERVICE TRENCHES.
1.22. FOLLOWING COMPLETION OF PROPOSED WORKS AND PRIOR TO OCCUPANCY INSPECTION, ALL STORM AND SANITARY SEWERS ARE TO BE FLUSHED, AND ALL CATCH-BASIN AND CATCH-BASIN MANHOLE SUMPS ARE TO BE CLEANED OF DEBRIS AND SILT.
2. STORM SEWERS
2.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSS 802.030, PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSS 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.
2.2. STORM SEWERS 200mm TO 375mm SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR35 ASTM-D3034 OR RIBBED PVC SEWER PIPE CSA B182.4-M90 ASTM-F794 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS. RIBBED PVC NOT TO BE USED WITHIN RIGHT-OF-WAY.
2.3. FACTORY FABRICATED WYES SHALL BE USED FOR ALL SERVICE CONNECTIONS.
2.4. MANHOLES AND MANHOLE CATCHBASINS TO BE 1200mm PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSS 701.010 UNLESS OTHERWISE SPECIFIED.
2.5. CATCHBASINS TO BE 600mm SQUARE PRECAST AS PER OPSS 705.010.
2.6. ALL STORM STRUCTURES TO HAVE A MINIMUM 600mm DEEP SUMP WHEN THE STRUCTURE INCLUDES THE INSTALLATION OF A SNOT (OR APPROVED EQUIVALENT) THE SUMP DEPTH TO BE MIN 2.5 TIMES THE OUTLET PIPE DIAMETER SIZE.

- 2.7. MANHOLE AND CATCHBASIN, FRAMES, GRATES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
2.8. STORM MANHOLE LIDS TO BE PER OPSS 401.010 - TYPE 'B' CATCHBASIN AND CATCHBASIN MANHOLE GRATES TO BE PER OPSS 400.100, DITCH INLET CATCHBASIN GRATES TO BE PER OPSS 403.010.
2.9. ADJUSTMENT UNITS FOR STORM STRUCTURES TO BE IN ACCORDANCE WITH OPSS 704.010 OR 704.011.
2.10. STORM SEWERS AND SERVICES TO HAVE MINIMUM 1.4m COVER TO TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL INSTALL SHALLOW BURIED SEWER PIPE IN ACCORDANCE WITH APPLICABLE "SEWER PIPE INSULATION DETAIL" INDICATED IN DRAWING DETAILS. 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 COVER). 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. SANITARY SEWERS
3.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSS 802.030, PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSS 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 150mm AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE DR28 ASTM-D3034 WITH INTEGRAL BELL AND SPIGOT UTILIZING FLEXIBLE ELASTOMERIC SEALS.
3.3. MANHOLES TO BE 1200mm PRECAST WITH ALUMINIUM STEPS AT 300mm CENTRES AS PER OPSS 701.010 UNLESS OTHERWISE SPECIFIED.
3.4. MANHOLES TO BE BENCHED PER OPSS 701.021.
3.5. SANITARY MANHOLE LIDS TO BE PER OPSS 401.010 -TYPE 'A'.
3.6. MANHOLE FRAMES, CASTINGS AND LIDS TO BE QUALITY GREY IRON ASTM A48 CLASS 30B.
3.7. ADJUSTMENT UNITS FOR SANITARY STRUCTURES TO BE IN ACCORDANCE WITH OPSS 704.010 OR 704.011.
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" INDICATED IN DRAWING DETAILS. 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. WATERMANS
4.1. PIPE BEDDING FOR RIGID PIPE TO BE CLASS "B" AS PER OPSS 802.030, PIPE BEDDING FOR FLEXIBLE PIPE TO BE AS PER OPSS 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. WATERMANS 100mm AND LARGER SHALL BE PVC CS90 CLASS 150 INSTALLED WITH MINIMUM 2.0 METRES OF COVER, FITTINGS 100mm 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 150mm OR LESS ALL PIPE JOINTS TO BE RESTRAINED WITHIN 5.0m FROM FITTINGS, IN EACH DIRECTION, UNLESS SHOWN OTHERWISE ON THE CONTRACT DRAWINGS. FOR WATERMAIN PIPE SIZES GREATER THAN 150mm 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 OPSS 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 100mm AND LARGER SHALL BE AS PER AWWA C509 OR C526-23 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 TWO 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 FERROUS 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 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 WATERMANS AND SERVICES TO HAVE MINIMUM 2.0m COVER ON TOP OF PIPE. WHERE COVER TO TOP OF PIPE IS DEFICIENT, CONTRACTOR SHALL CONTACT DESIGN ENGINEER FOR "WATER PIPE INSULATION DETAIL".
4.11. ALL WATERMANS AND SERVICES TO HAVE MINIMUM 2.0m 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 100-150mm). 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 MINIMUM 2-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



ONTARIO PROVINCIAL STANDARD DRAWING Nov 2010 Rev 2 WAPRO logo



GEODETIC BM ELEV. = 214.332m
SITE BENCHMARK ELEV. = 215.24m
NOTE TO CONTRACTOR: DO NOT SCALE DRAWINGS. CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.

NOTE: 1. PROPERTY LINE IS APPROXIMATE ONLY AND TAKEN FROM PLAN PREPARED BY J D BARNES SURVEYING MAPPING GIS DATED FEBRUARY 13TH, 2020. BEARINGS ARE UTM GRID, DERIVED FROM OBSERVED REFERENCE POINTS A, B, AND C BY REAL TIME NETWORK (RTN) OBSERVATION, UTM ZONE 17, NAD83 (CSRS) (2010.0).

Revision table with columns for No., Description, and Date. Includes entries for 'ISSUED FOR CONSTRUCTION' and 'ISSUED FOR SCHEMATIC DESIGN'.

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CLIENT: SALTER PILON ARCHITECTURE INC.
PROJECT: BRAMPTON FIRE STATION 201 NEW BUILDING
DRAWING: NOTES AND DETAILS PLAN

Project information table including Project Manager (K.RAMSEWAK), Project No. (48015-100), Design By (LFG), Drawn By (SWX), Surveyed By (OTHERS), Date (Oct.14/21), and Scale (1:300).