

LEGEND

- PROPERTY LINE
- x 77.55 EXISTING ELEVATION
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- x x x EXISTING FENCE
- o EXISTING UTILITY POLE
- EXISTING CATCHBASIN
- EXISTING UNDERGROUND HYDRO
- EXISTING OVERHEAD HYDRO
- B B EXISTING BELL LINE
- GAS GAS EXISTING GASMAIN
- EXISTING CABLE LINE

- NOTES: GENERAL**
- ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISION OF THE STANDARDS AND SPECIFICATIONS FOR THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE. LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.
 - THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING UTILITIES WITHIN THE SITE AND ADJACENT WORK AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.
 - ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER. LOST TIME DUE TO FAILURE OF THE CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTOR'S EXPENSE.
 - ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.
 - RELOCATION OF EXISTING SERVICES AND/OR UTILITIES SHALL BE AS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER AT THE EXPENSE OF THE DEVELOPER.
 - ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 'OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS'. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE 'CONTRACTOR' AS DEFINED IN THE ACT.
 - ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE MINISTRY OF TRANSPORTATION OF ONTARIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES PER LATEST AMENDMENT.
 - THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.
 - ALL ELEVATIONS / DIMENSIONS ARE IN METRIC UNITS UNLESS SPECIFIED OTHERWISE.
 - THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS PRIOR WRITTEN APPROVALS IS RECEIVED FROM THE ENGINEER.
 - ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT.
 - ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE SITE SERVICING AND STORMWATER MANAGEMENT REPORT.
 - ALL SEWERS CONSTRUCTED WITH GRADES LESS THAN 1.0% SHALL BE INSTALLED USING LASER ALIGNMENT AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF THE SAME.
 - THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING, OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH AS SPECIFIED BY OPSD IS EXCEEDED.
 - ALL PIPE/CULVERT SECTION SIZES REFER TO INSIDE DIMENSIONS.
 - SHOULD BURIED ARCHAEOLOGICAL REMAINS BE FOUND ON THE PROPERTY DURING CONSTRUCTION ACTIVITIES, THE HERITAGE OPERATIONS UNIT OF THE ONTARIO MINISTRY OF CULTURE MUST BE NOTIFIED IMMEDIATELY.
 - ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING/REMOVAL.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SITE PLAN.
 - THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER ONE SET OF AS CONSTRUCTED SITE SERVICING AND GRADING DRAWINGS.
 - BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION DEPICTED ON THIS PLAN.

TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY FARLEY, SMITH & DENIS SURVEYING LTD.
 PROJ. NO. 83-19
 DATED NOVEMBER 12, 2020

SITE PLAN INFORMATION
 SITE PLAN PROVIDED BY RLA ARCHITECTURE.
 PROJ. NO. 1927
 DATED MARCH 11, 2021

GEOTECHNICAL STUDY
 GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PATERSON GROUP
 PROJ. NO. PG5118-1
 DATED DECEMBER 1, 2020

SITE SERVICING AND STORMWATER MANAGEMENT STUDY
 SERVICING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY AINLEY GROUP
 PROJ. NO. 22002-1
 DATED JANUARY, 2022

BENCH MARK
 LOCATED AT FIRE HYDRANT TOP OF SPINDLE
 ELEV=78.44

CONTRACT DRAWINGS:
 Contractor must verify all dimensions and be responsible for same. Any discrepancies must be reported to the Engineer before commencing work. Drawings are not to be copied, distributed or used by others without the express written consent of Ainley Group & Associates Limited. The recipient is responsible for confirming the accuracy and completeness of the information with the originator. The recipient assumes all risks and liabilities associated with the use of the drawings. The recipient will save and hold harmless Ainley Group & Associates Limited for any claims whatsoever associated with or related to the use of the drawings. The recipient will not reuse any portion of the drawings for any future project without the express written permission of Ainley Group & Associates Limited.

NO.	REVISIONS	DATE	INITIAL	NO.	REVISIONS	DATE	INITIAL
5	ISSUED FOR FULL BUILDING PERMIT			5	ISSUED FOR FULL BUILDING PERMIT	APR 08/22	JX
4	ISSUED FOR REVIEW/COORDINATION			4	ISSUED FOR REVIEW/COORDINATION	MAR 14/22	JX
3	REVISED PER CITY COMMENTS			3	REVISED PER CITY COMMENTS	JAN 18/22	DSEL
2	REVISED PER CITY COMMENTS			2	REVISED PER CITY COMMENTS	MAR 29/21	DSEL
6	REVISED AS PER ROUND 3 CITY COMMENTS	MAY 12/20	JX	1	ISSUED FOR MUNICIPAL REVIEW	NOV 20/20	DSEL

SCALE: 1 : 200
 DESIGN: JX
 DRAWN: MH
 CHECKED: GSC/JX
 DATE: JAN. 2022

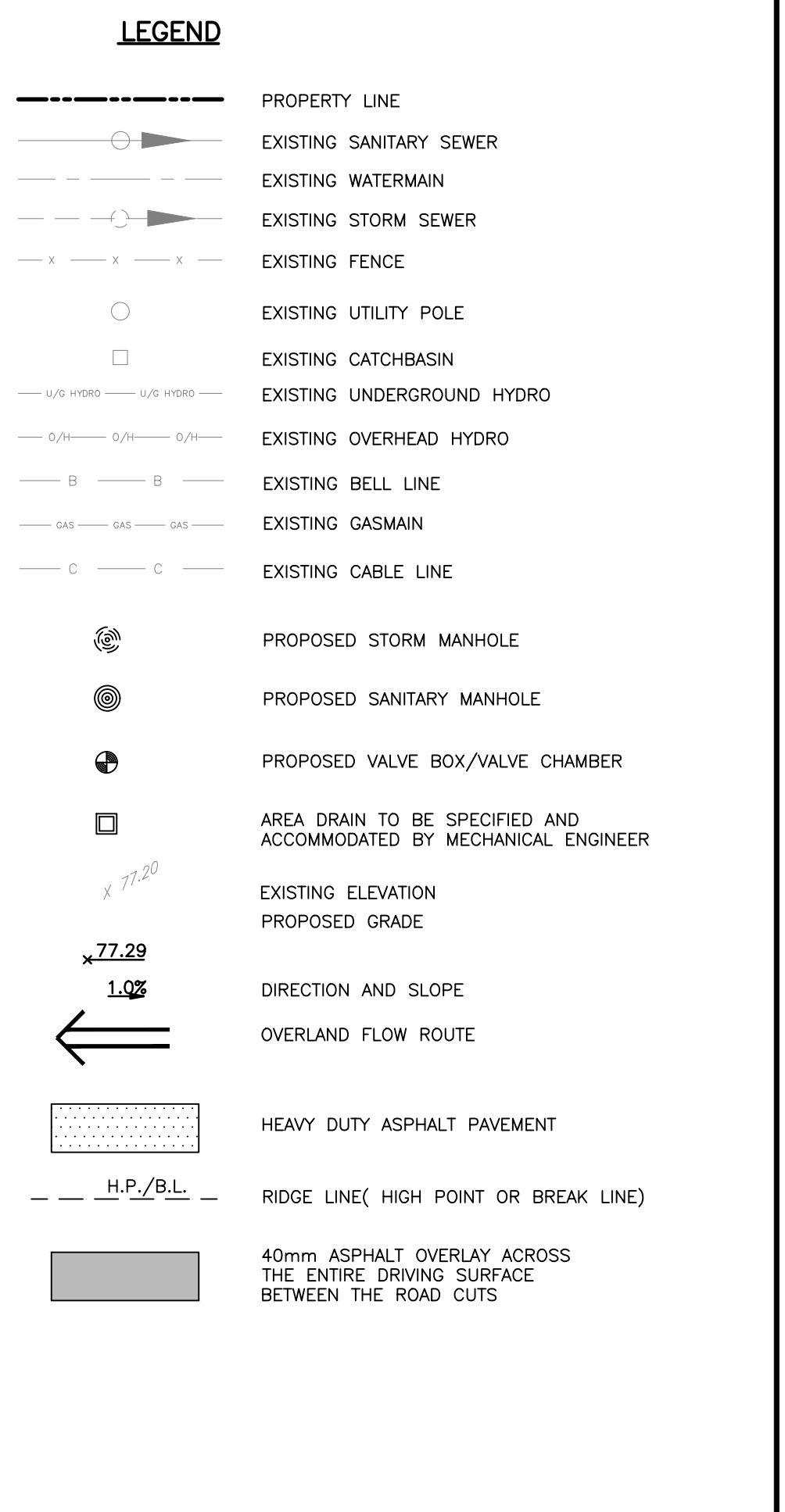
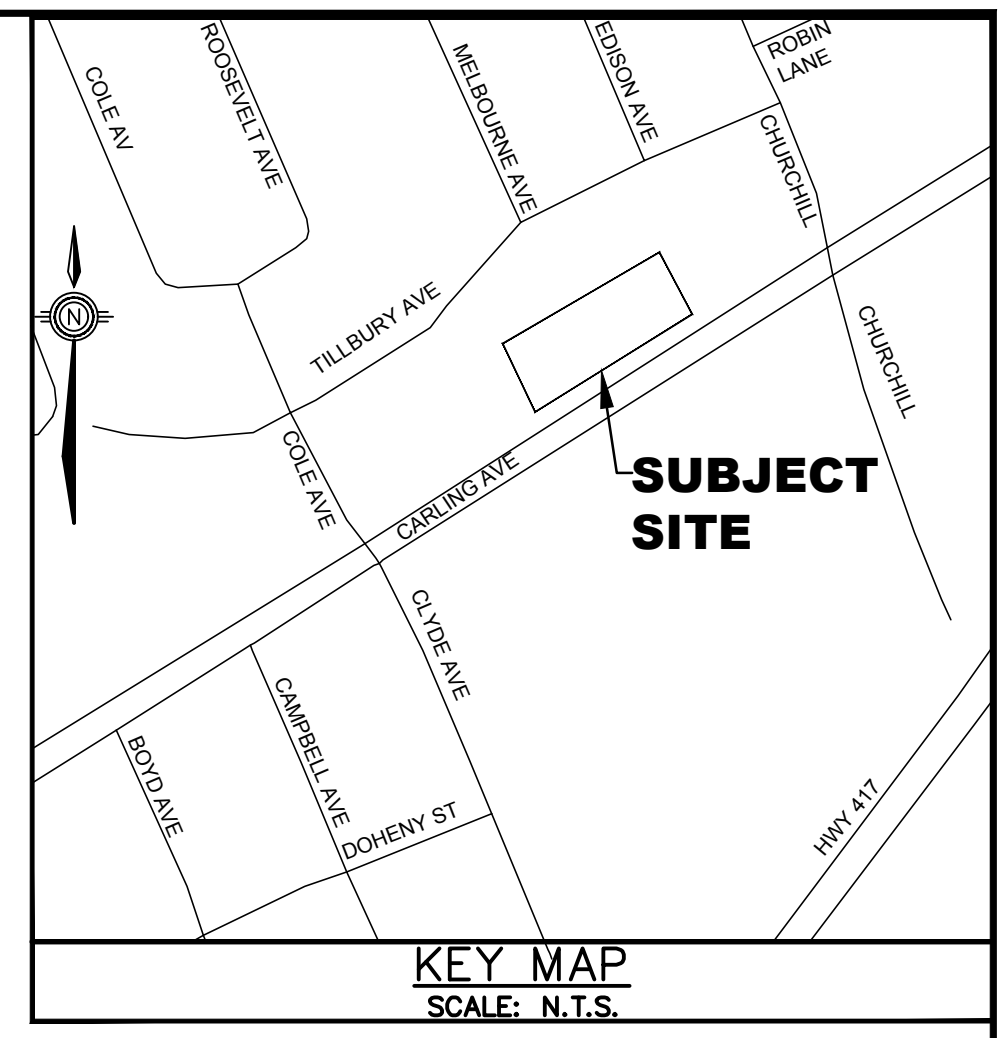
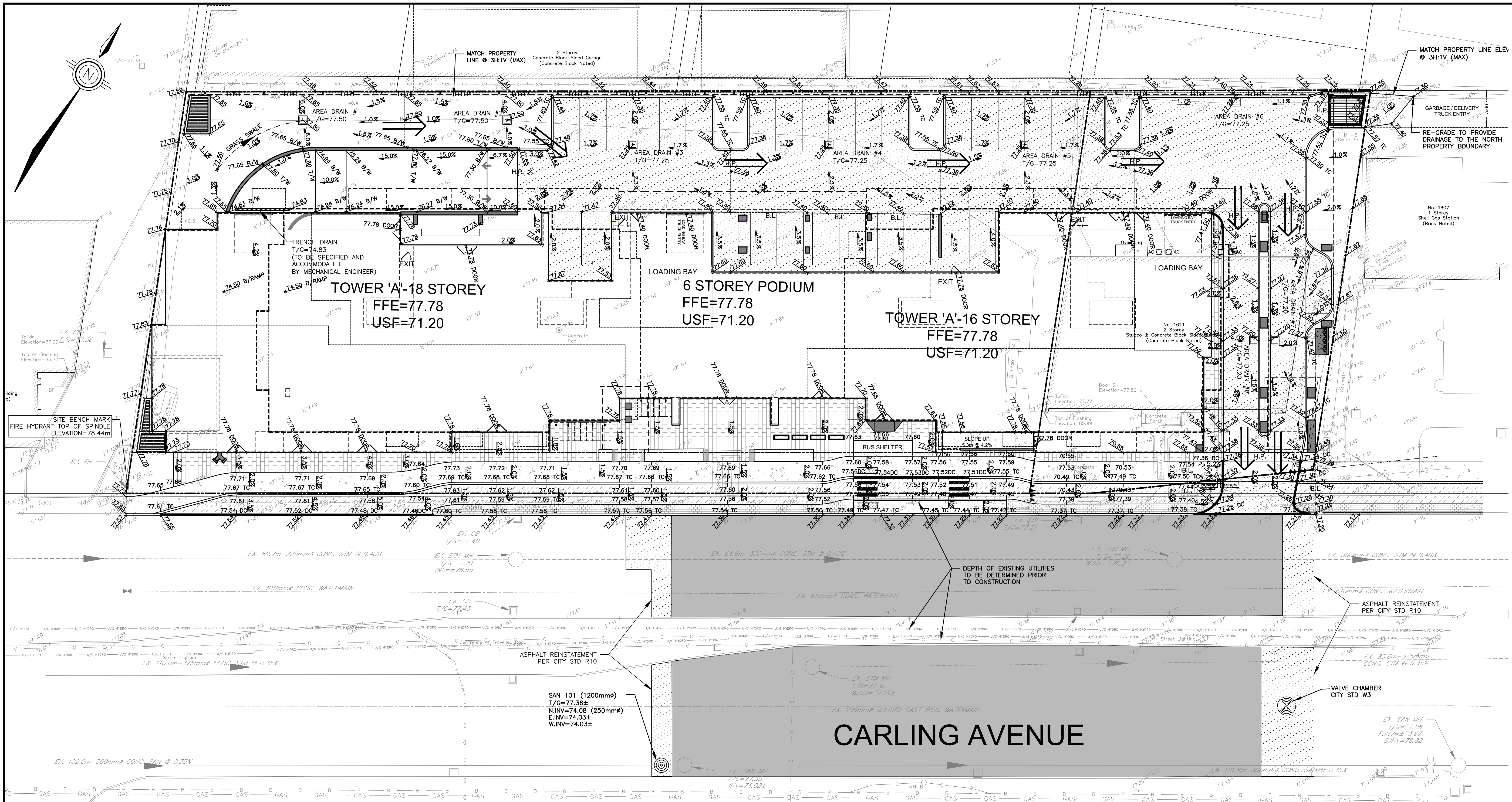
1619 & 1655 CARLING AVENUE
 CITY OF OTTAWA

Ainley Group
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DRAWING NO. EX-1
 SHEET NO. 1 OF 8

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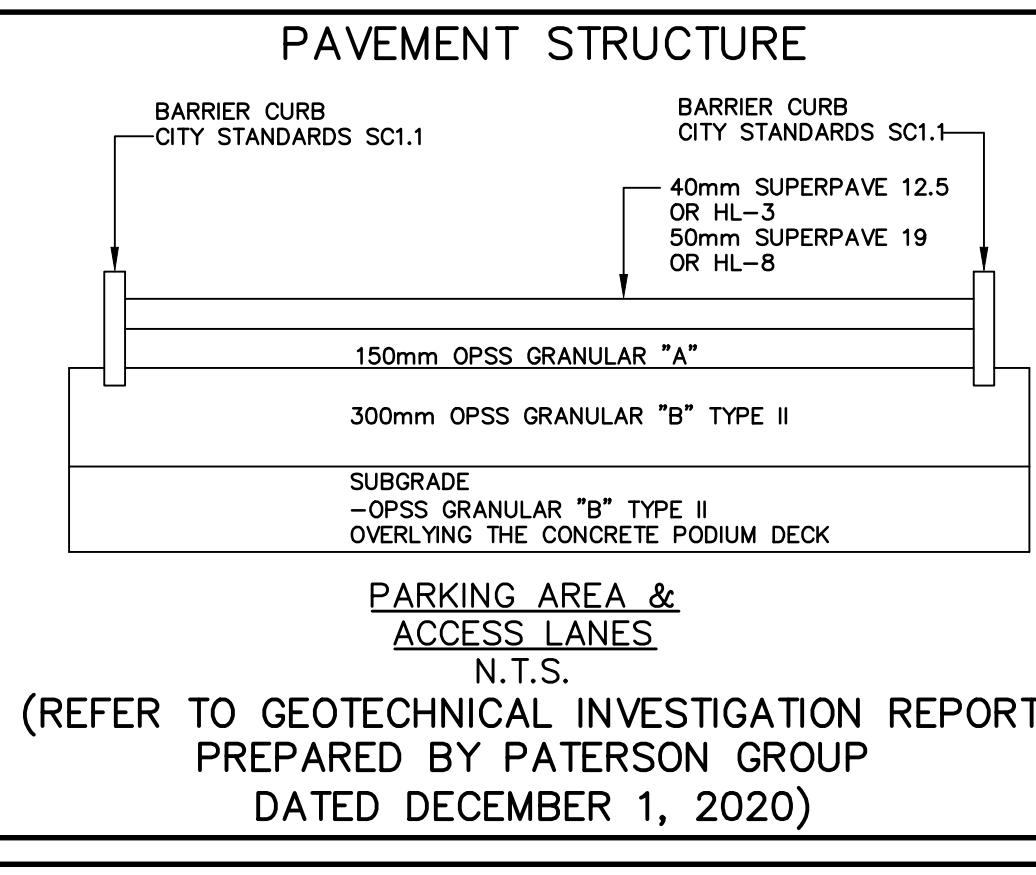
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- NOTES: GENERAL**
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 8. THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES TO PREVENT CONFLICTS.

- NOTES: SITE GRADING**
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 12. ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE SITE SERVING AND STORMWATER MANAGEMENT REPORT.
 13. ALL SEWERS CONSTRUCTED WITH GRADES LESS THAN 1.0% SHALL BE INSTALLED USING LASER ALIGNMENT AND CHECKED WITH LEVEL INSTRUMENT PRIOR TO BACKFILLING.
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 18. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING/REMOVAL.
 19. DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SITE PLAN.
 20. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER ONE SET OF AS CONSTRUCTED SITE SERVING AND GRADING DRAWINGS.
 21. BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE THE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION DEPICTED ON THIS PLAN.

- NOTES: PAVEMENT STRUCTURE**
1. PRIOR TO THE COMMENCEMENT OF THE SITE GRADING WORKS, ALL SILTATION CONTROL DEVICES SHALL BE INSTALLED AND OPERATIONAL PER EROSION CONTROL PLAN.
 2. ALL GRANULAR AND PAVEMENT FOR ROADS/PARKING AREAS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.
 3. ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD AND PARKING AREAS ALLOWANCE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 4. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD SC1.1. PROVISION SHALL BE MADE FOR CURB DEPRESSIONS AS INDICATED ON ARCHITECTURAL SITE PLAN. CONCRETE SIDEWALK SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD SC1.4. ALL CURBS, CONCRETE ISLANDS AND SIDEWALKS SHOWN ON THIS DRAWING ARE TO BE PRICED IN THE SITEWORKS PORTION OF THE CONTRACT.
 5. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD R10 AND OPSD 509.010, AND OPSD 310.
 6. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN THE PAVEMENT AREA.
 7. SUB-EXCAVATE SOFT AREAS SHALL BE FILLED WITH GRANULAR "B" COMPACTED IN MAXIMUM 300mm LIFTS.
 8. ALL WORK ON MUNICIPAL RIGHT OF WAY AND EASEMENTS TO BE INSPECTED BY THE MUNICIPALITY PRIOR TO BACKFILLING.
 9. CONTRACTOR TO OBTAIN A ROAD OCCUPANCY PERMIT 48 HOURS PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE, IF REQUIRED BY THE MUNICIPALITY.
 10. ALL PAVEMENT MARKING FEATURES AND SITE SIGNAGE SHALL BE PLACED PER ARCHITECTURAL SITE PLAN. LINE PAINTING AND DIRECTIONAL SYMBOLS SHALL BE APPLIED WITH A MINIMUM OF TWO COATS OF ORGANIC SOLVENT PAINT.
 11. REFER TO ARCHITECTURAL SITE PLAN FOR DIMENSIONS AND SITE DETAILS.
 12. STEP JOINTS ARE TO BE USED WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT. ALL JOINTS MUST BE SEALED.
 13. SIDEWALKS TO BE 13mm & BEVELED AT 2:1 OR 6mm WITH NO BEVEL REQUIRED BELOW THE FINISHED FLOOR SLAB ELEVATION AT THE ENTRANCES REQUIRED TO BE BARRIER-FREE, UNLESS OTHERWISE NOTED. ALL IN ACCORDANCE WITH OBC 3.8.1.3 & OTTAWA ACCESSIBILITY DESIGN STANDARDS.
 14. WHERE APPLICABLE THE CONTRACTOR IS TO SUBMIT SHOP DRAWINGS FOR RETAINING WALL (INCLUDE RAILING IF APPLICABLE) TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS MUST BE SITE SPECIFIC, SIGNED AND SEALED BY A LICENSED STRUCTURAL ENGINEER. THE CONTRACTOR WILL ALSO BE REQUIRED TO SUPPLY STRUCTURAL AND GEOTECHNICAL CERTIFICATION OF THE AS-CONSTRUCTED RETAINING WALL TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE.



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY FARLEY, SMITH & DENNIS SURVEYING LTD.
 PROJ. NO. 83-19
 DATED NOVEMBER 12, 2020

SITE PLAN INFORMATION
 SITE PLAN PROVIDED BY RLA ARCHITECTURE.
 PROJ. NO. 1927
 DATED MARCH 11, 2021

GEOTECHNICAL STUDY
 GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PATERSON GROUP
 PROJ. NO. PG5118-1
 DATED SEPTEMBER 1, 2020

SITE SERVING AND STORMWATER MANAGEMENT STUDY
 SERVING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY AINLEY
 PROJ. NO. 22002-1
 DATED JANUARY, 2022

BENCH MARK
 LOCATED AT FIRE HYDRANT TOP OF SPINDLE
 ELEV=78.44

CONTRACT DRAWINGS:
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CAUTION: The information contained in this drawing is solely for the intended recipient. Any copying, distribution or use by others without the express written consent of Ainley Graham & Associates Limited is prohibited. The recipient is responsible for confirming the accuracy and completeness of the information with the originator. The recipient will assume and hold harmless Ainley Graham & Associates Limited for any claims whatsoever associated with or related to the use of the drawings. The recipient will not reuse any portion of the drawings for any future project without the express written permission of Ainley Graham & Associates Limited.

NO.	REVISIONS	DATE	INITIAL	NO.	REVISIONS	DATE	INITIAL
5	ISSUED FOR FULL BUILDING PERMIT	APR 08/22	JX	5	NOT VALID UNLESS SIGNED AND DATED		
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3	REVISED PER CITY COMMENTS	JAN 18/22	DSEL				
2	REVISED PER CITY COMMENTS	MAR 29/21	DSEL				
1	ISSUED FOR MUNICIPAL REVIEW	NOV 20/20	DSEL				
6	REVISED AS PER ROUND 3 CITY COMMENTS	MAY 12/20	JX				

Professional Engineers
 Ontario
 MAY 12, 2022
Limited Licensee
 Name: J.W.XU
 Number: 100171806
 Category: CIVIL (see limitation)
 Limitations: This license is subject to the limitations as detailed on the certificate.
 Association of Professional Engineers of Ontario

SCALE: 1 : 200
 DESIGN: JX
 DRAWN: MH
 CHECKED: GSC/JX
 DATE: JAN. 2022

1619 & 1655 CARLING AVENUE
 CITY OF OTTAWA

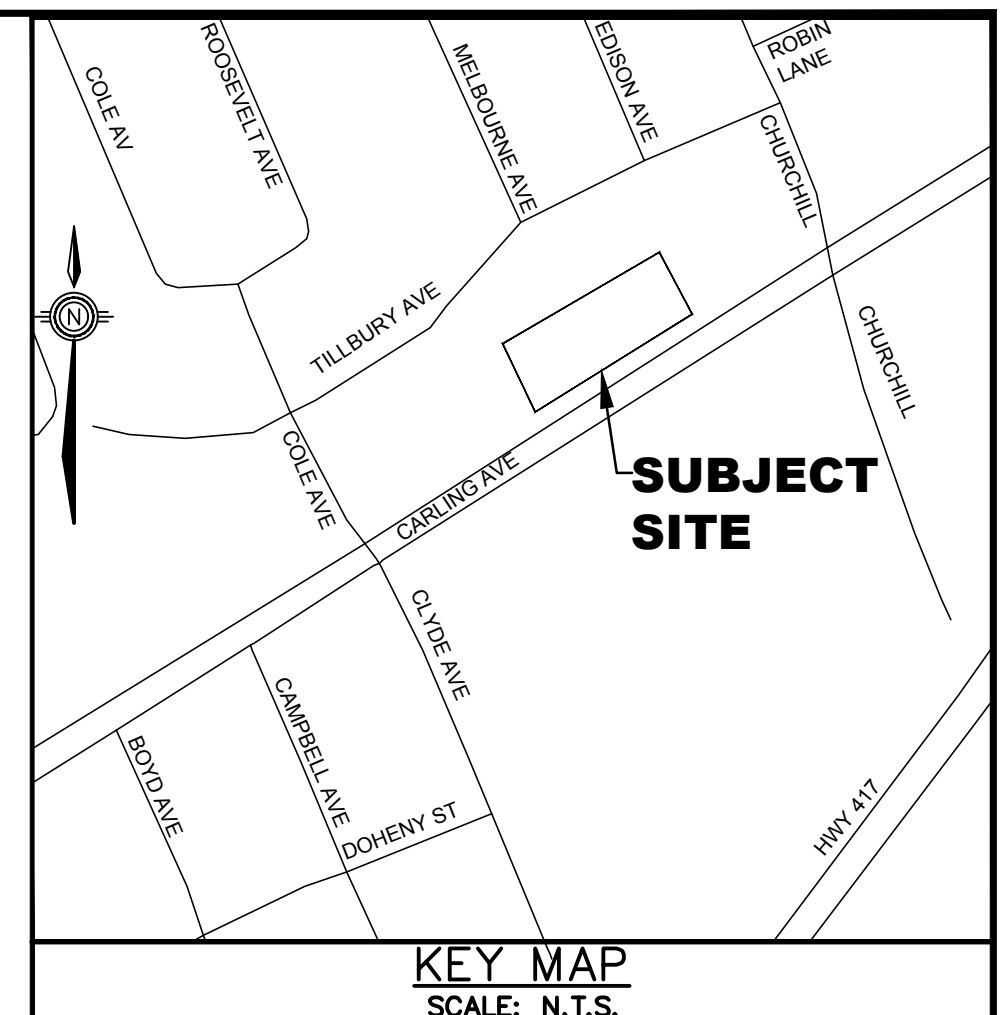
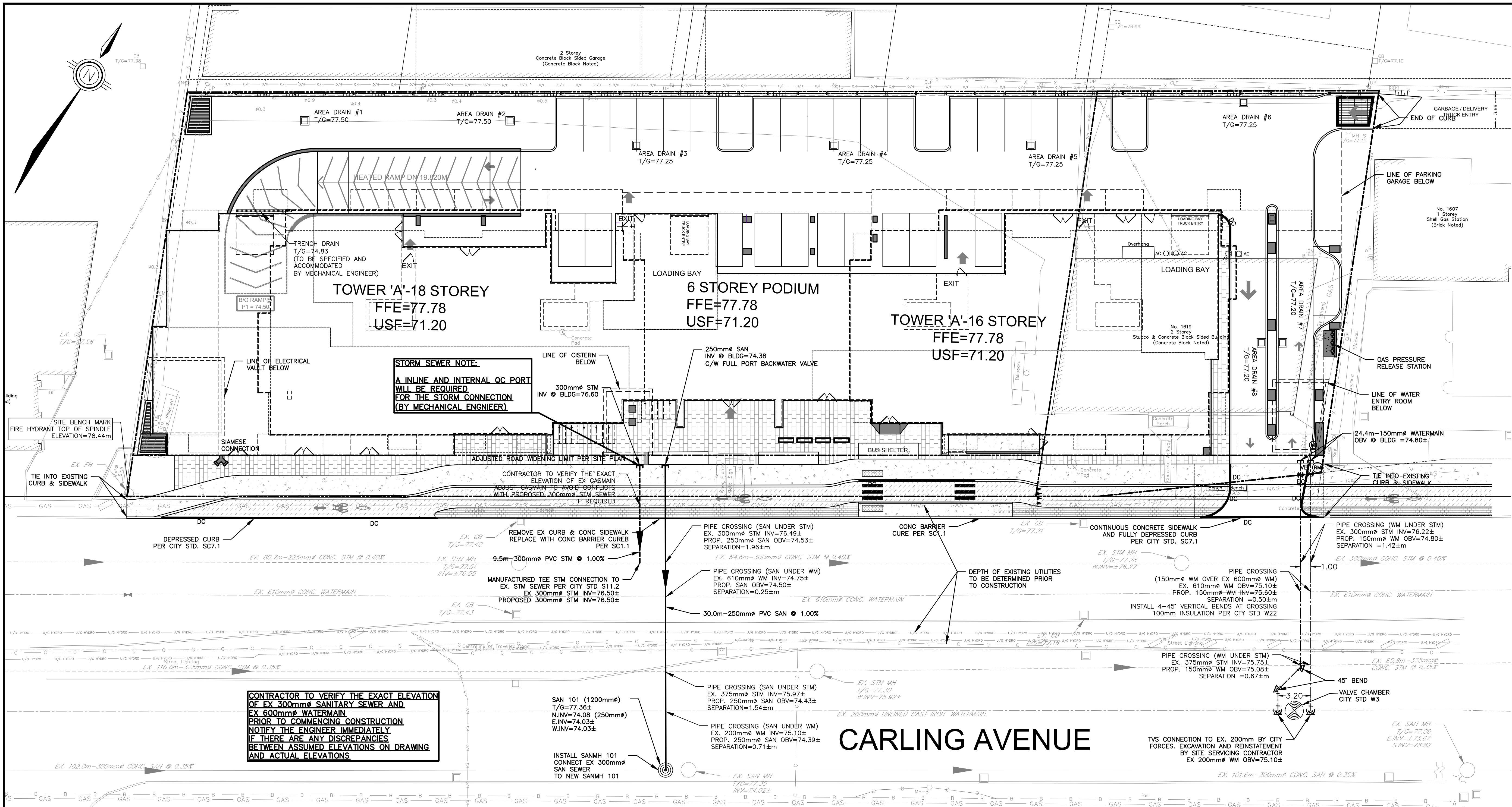
GRADING PLAN

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DRAWING NO. GP-1
 SHEET NO. 2 OF 8

May 13, 2022 1: D:\DRAWINGS\22002-1-1655 Carling Avenue\Design\22002-22002-GPI.dwg

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LEGEND

Symbol	PROPERTY LINE
Symbol	EXISTING SANITARY SEWER
Symbol	EXISTING WATERMAIN
Symbol	EXISTING STORM SEWER
Symbol	EXISTING FENCE
Symbol	EXISTING UTILITY POLE
Symbol	EXISTING CATCHBASIN
Symbol	EXISTING UNDERGROUND HYDRO
Symbol	EXISTING OVERHEAD HYDRO
Symbol	EXISTING BELL LINE
Symbol	EXISTING GASMAIN
Symbol	EXISTING CABLE LINE
Symbol	PROPOSED STORM SEWER
Symbol	PROPOSED SANITARY SEWER
Symbol	PROPOSED WATERMAIN
Symbol	DEPRESSED CURB
Symbol	PROPOSED WATER METER
Symbol	PROPOSED REMOTE WATER METER
Symbol	PROPOSED WATERMAIN BEND
Symbol	PROPOSED VALVE BOX/VALVE CHAMBER
Symbol	AREA DRAIN TO BE SPECIFIED AND ACCOMMODATED BY MECHANICAL ENGINEER

TOPOGRAPHIC INFORMATION

TOPOGRAPHIC INFORMATION PROVIDED BY FARLEY, SMITH & DENIS SURVEYING LTD. PROJ. NO. 83-19 DATED NOVEMBER 12, 2020

SITE PLAN INFORMATION

SITE PLAN PROVIDED BY RLA ARCHITECTURE. PROJ. NO. 1927 DATED MARCH 11, 2021

GEOTECHNICAL STUDY

GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PATERSON GROUP PROJ. NO. P0518-1 DATED DECEMBER 1, 2020

SITE SERVICING AND STORMWATER MANAGEMENT STUDY

SERVICING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY ANILEY PROJ. NO. 22002-1 DATED JANUARY, 2022

BENCH MARK

LOCATED AT FIRE HYDRANT TOP OF SPINDLE ELEV=78.44

NOTES - GENERAL

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NOTES - WATERMAIN

- ALL WATERMAIN INSTALLATION SHALL CONFORM TO THE LATEST CITY OF OTTAWA STANDARDS AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
- ALL PVC WATERMAINS SHALL BE AWWA C-900 CLASS 150, DR 18 OR APPROVED EQUIVALENT.
- WATERMAIN TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS SPECIFIED OTHERWISE. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER.
- ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STANDARD COPPER TWU OR RWU TRACER WIRE IN ACCORDANCE WITH CITY OF OTTAWA STD. W40 AND W42.
- CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS PER CITY OF OTTAWA STD. W40 AND W42.
- VALVE BOXES SHALL BE INSTALLED PER CITY OF OTTAWA STD W24.
- WATERMAIN IN FILL AREAS TO BE INSTALLED WITH RESTRAINED JOINTS PER CITY OF OTTAWA STD W25.5 AND W26.6.
- THROU BLOCKING OF WATERMAINS TO BE INSTALLED PER CITY OF OTTAWA STD W25.3 AND W25.4.
- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS, BLOW-OFFS, AND NOZZLES REQUIRED FOR TESTING AND DISINFECTION OF THE WATERMAIN.
- THE CONTRACTOR SHALL CROSSING OVER AND BELOW SERVICES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25.2 RESPECTIVELY.
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NOTES - SANITARY AND STORM SEWER

- LASER ALIGNMENT CONTROL TO BE UTILIZED ON ALL SEWER INSTALLATIONS.
- SEAL GYAL TO BE INSTALLED AS PER CITY STANDARD DRAWING S8. THE SEALS SHOULD BE AT LEAST 15mm LONG (IN THE TRENCH DIRECTION) AND SHOULD EXTEND FROM TRENCH WALL TO TRENCH WALL. THE SEALS SHOULD EXTEND FROM THE FROST LINE AND FULLY PENETRATE THE BEDDING. SUB-BEDDING AND COVER MATERIAL. THE BARRIERS SHOULD CONSIST OF RELATIVELY DRY AND COMPACTIBLE BROWN SILTY CLAY PLACED IN MAXIMUM 225mm LIFTS AND COMPACTED TO A MINIMUM OF 90% SPINDLE. THE CLAY SEALS SHOULD BE PLACED AT THE SITE BOUNDARIES AND AT 60m INTERVALS IN THE SERVICE TRENCHES.
- SERVICES TO BUILDINGS TO BE TERMINATED 1.0m FROM THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.
- ALL MAINTENANCE STRUCTURE AND CATCH BASIN EXCAVATIONS TO BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 98% STANDARD PROCTOR DENSITY, A MINIMUM OF 300mm AROUND STRUCTURES.
- SAFETY PLATFORMS SHALL BE PER OPSD 404.02.
- DROP STRUCTURES SHALL BE IN ACCORDANCE WITH OPSD 1003.01 AND 1003.02, IF APPLICABLE.
- THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL SEWERS, INCLUDING PICTORIAL REPORT ONE (1) CD COPY AND TWO (2) VIDEO RECORDINGS IN A FORMAT ACCEPTABLE TO THE ENGINEER. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS AND NECESSARY REPAIRS HAVE BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.
- SANITARY SEWERS SHALL BE PER OPSD 410 AND OPSD 407. CONTRACTOR SHALL PERFORM VIDEO INSPECTION OF ALL SEWERS. A COPY OF THE VIDEO AND INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW AND APPROVAL PRIOR TO PLACEMENT OF WEAR COURSE ASPHALT.
- FROST PROTECTION RECOMMENDATIONS FOR STORM SEWERS WITH LESS THAN 1.5m AND SANITARY SEWERS WITH LESS THAN 1.8m FROM GROUND SURFACE TO PIPE OBVERT TO BE PROVIDED BY GEOTECHNICAL ENGINEER.

NOTES - STORM

- ALL REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2, OR LATEST AMENDMENT. ALL NON-REINFORCED CONCRETE STORM SEWER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.1 OR LATEST AMENDMENT. PIPE SHALL BE JOINTED WITH STD RUBBER GASKETS AS PER CSA A257.3 OR LATEST AMENDMENT.
- ALL STORM SEWER TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD S6 AND S7 CLASS 'B' UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER CSA B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
- CATCH BASINS SHALL BE IN ACCORDANCE WITH OPSD 705.010.
- CATCH BASIN LEADS SHALL BE 200mm DIA AT 1.00% SLOPE (MIN) UNLESS SPECIFIED OTHERWISE.
- ALL CATCH BASIN SHALL HAVE 600mm SUMP, UNLESS SPECIFIED OTHERWISE.
- ALL CATCH BASIN LEAD INVERTS TO BE 1.5m BELOW FINISHED GRADE UNLESS SPECIFIED OTHERWISE.
- THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED ABOVE. WHERE THE SPECIFIED TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR IS REQUIRED TO PROVIDE AND SHALL BE RESPONSIBLE FOR EXTRA TEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.
- PERFORATED SUBDRAIN FOR ROAD AND PARKING LOT CATCH BASIN SHALL BE INSTALLED PER CITY STD R1 AND GEOTECHNICAL RECOMMENDATIONS UNLESS OTHERWISE NOTED.
- PERFORATED SUBDRAIN FOR REAR YARD AND LANDSCAPING APPLICATIONS SHALL BE INSTALLED PER CITY STD S29, S30, AND S31, WHERE APPLICABLE.
- RIP-RAP TREATMENT FOR SEWER AND CULVERT OUTLETS PER OPSD B10.010.
- ALL STORM SEWERS/CULVERTS TO BE INSTALLED WITH FROST TREATMENT PER OPSD B03.031 WHERE APPLICABLE.
- STORM MAINTENANCE STRUCTURE FRAME AND COVERS SHALL BE PER CITY OF OTTAWA STD S25 AND S24.1, UNLESS OTHERWISE NOTED.
- CATCH BASIN FRAME AND COVER SHALL BE PER OPSD 400.02 AND CITY STD S19.1, UNLESS OTHERWISE NOTED.

CONTRACT DRAWINGS:
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NO.	REVISIONS	DATE	INITIAL	NO.	REVISIONS	DATE	INITIAL
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4	ISSUED FOR REVIEW/COORDINATION			4	ISSUED FOR REVIEW/COORDINATION	MAR 14/22	JX
3	REVISED PER CITY COMMENTS			3	REVISED PER CITY COMMENTS	JAN 18/22	DSEL
2	REVISED PER CITY COMMENTS			2	REVISED PER CITY COMMENTS	MAR 29/21	DSEL
6	REVISED AS PER ROUND 3 CITY COMMENTS	MAY 12/20	JX	1	ISSUED FOR MUNICIPAL REVIEW	NOV 20/20	DSEL

Not Valid Unless Signed And Dated

Professional Engineers Ontario
MAY 12, 2022
Limited Licensee
Name: J.W.XU
Number: 100171806
Category: CIVIL see limitation
Limitations:
This license is subject to the limitations as detailed on the certificate.
Association of Professional Engineers of Ontario

SCALE: 1 : 200

DESIGN: JX

DRAWN: MH

CHECKED: GSC/JX

DATE: JAN. 2022

1619 & 1655 CARLING AVENUE
CITY OF OTTAWA

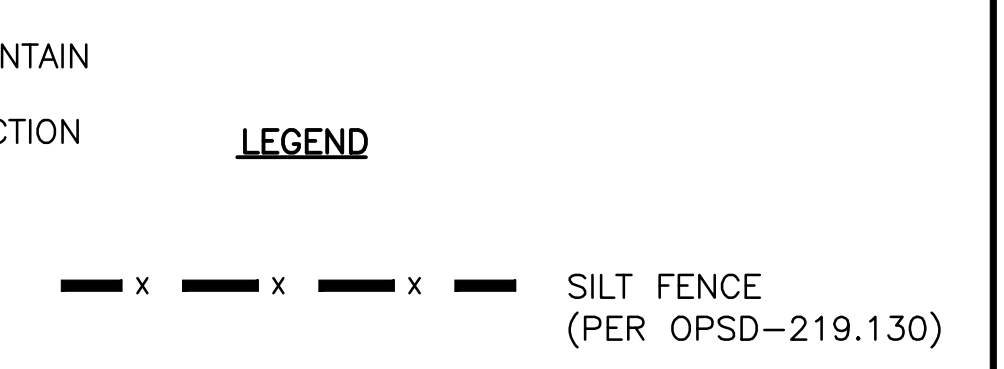
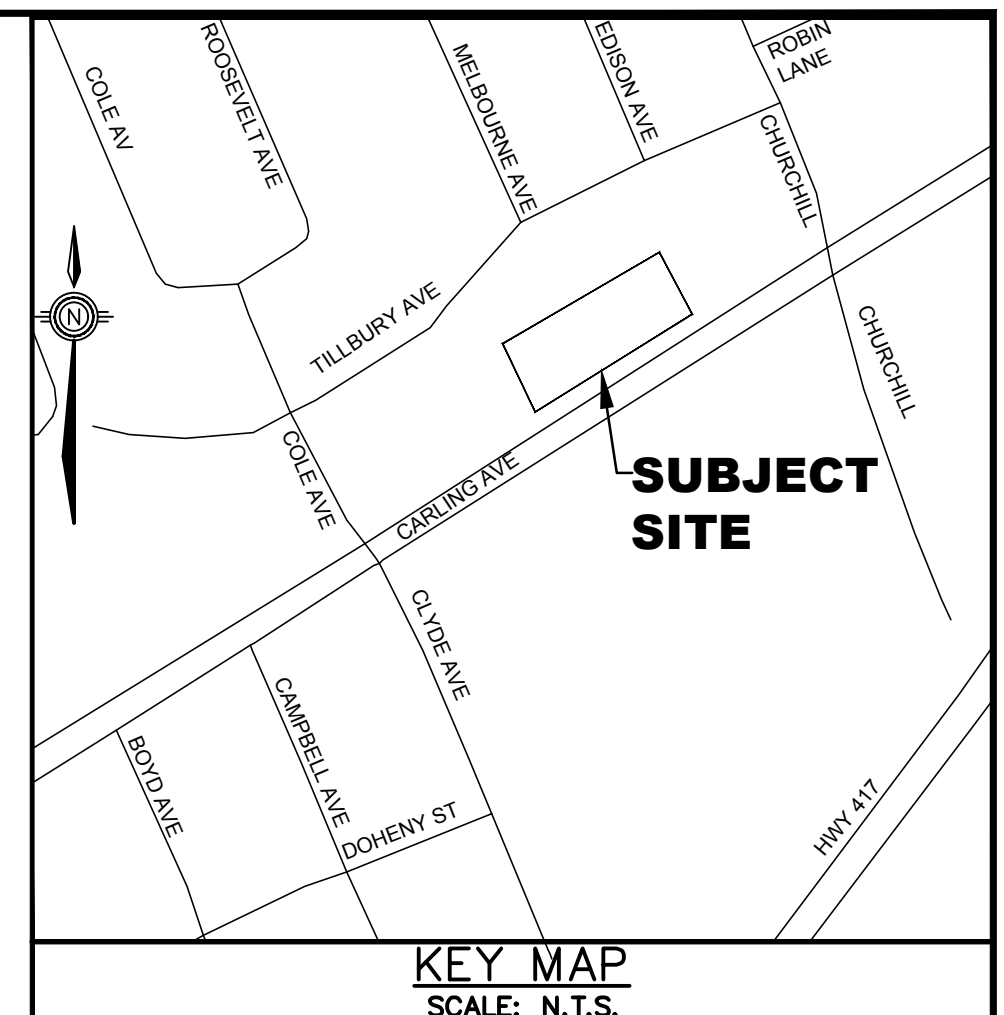
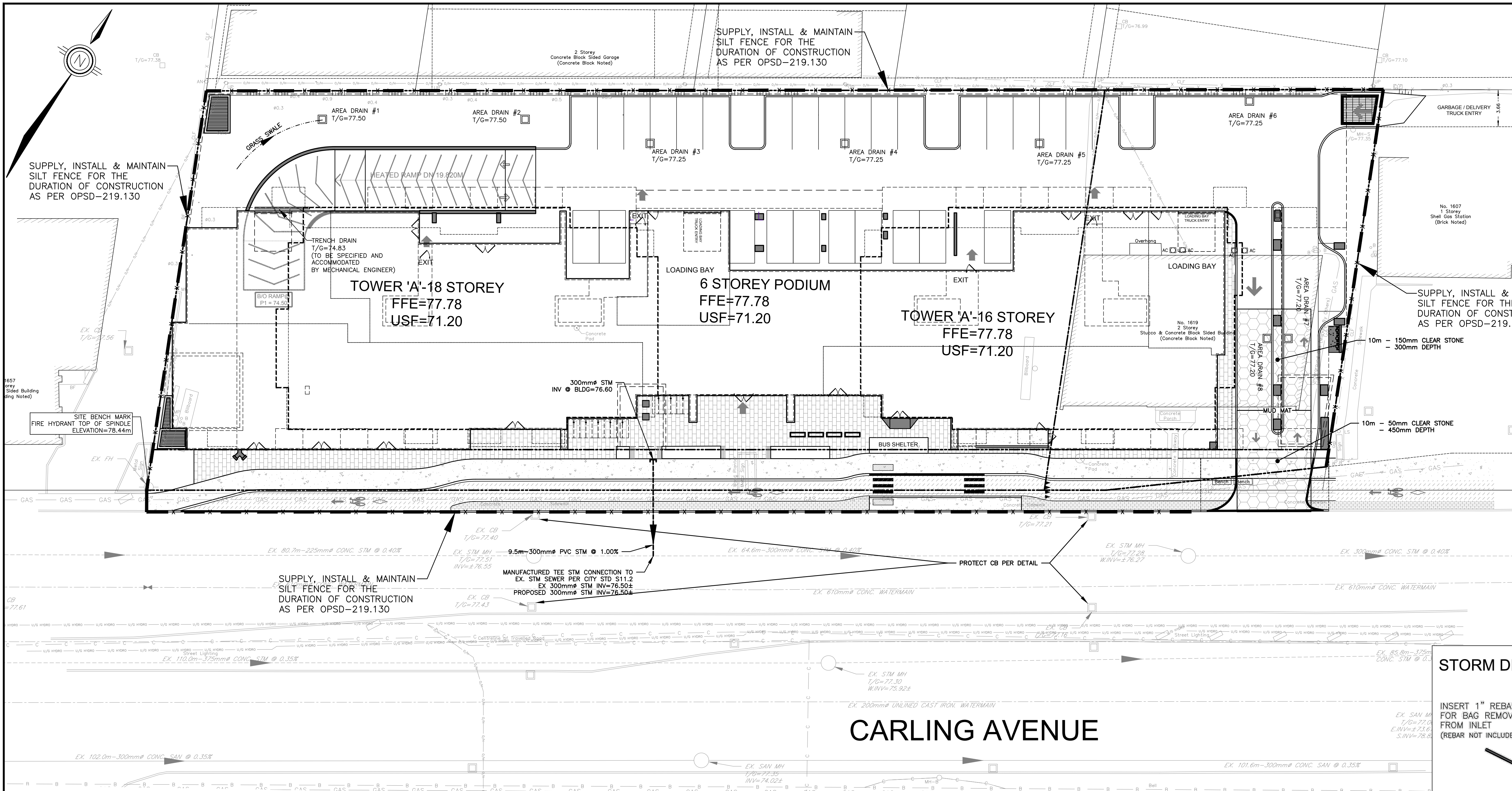
Aniley Grahm & Associates Limited
2724 Fenton Road
Ottawa, Ontario
K1T 3T7
Telephone: (613) 822-1052
Fax: (613) 822-1573

SITE SERVICING PLAN

DRAWING NO.	SHEET NO.
SSP-1	3 OF 8

May 13, 2022 1: D:\DRAWINGS\22002-1 1655 Carling Avenue\Design\003-22002-SSP1.dwg

D07-12-20-0146 #18035



TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY FARLEY, SMITH & DENIS SURVEYING LTD.
 PROJ. NO. 83-19
 DATED NOVEMBER 12, 2020

SITE PLAN INFORMATION
 SITE PLAN PROVIDED BY RLA ARCHITECTURE.
 PROJ. NO. 1927
 DATED MARCH 11, 2021

GEOTECHNICAL STUDY
 GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PATERSON GROUP
 PROJ. NO. PGS18-1
 DATED DECEMBER 1, 2020

SITE SERVING AND STORMWATER MANAGEMENT STUDY
 SERVING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY ANILEY
 PROJ. NO. 22002-1
 DATED JANUARY, 2022

BENCH MARK
 LOCATED AT FIRE HYDRANT TOP OF SPINDLE
 ELEVATION=78.44

EROSION AND SEDIMENT CONTROL NOTES
GENERAL

THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.

THE CONTRACTOR ACKNOWLEDGES THAT SURFACE EROSION AND SEDIMENT RUNOFF RESULTING FROM THEIR CONSTRUCTION OPERATIONS HAS POTENTIAL TO CAUSE A DETRIMENTAL IMPACT TO ANY DOWNSTREAM WATERCOURSE OR SEWER, AND THAT ALL CONSTRUCTION OPERATIONS THAT MAY IMPACT UPON WATER QUALITY SHALL BE CARRIED OUT IN A MANNER THAT STRICTLY MEETS THE REQUIREMENTS OF ALL APPLICABLE LEGISLATION AND REGULATIONS.

AS SUCH, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THEIR OPERATIONS, AND SUPPLYING AND INSTALLING ANY APPROPRIATE CONTROL MEASURES, SO AS TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING ANY SEWER OR WATERCOURSE WITHIN OR DOWNSTREAM OF THE WORKING AREA.

THE CONTRACTOR ACKNOWLEDGES THAT NO MEASURE IS LIKELY TO BE 100% EFFECTIVE FOR EROSION PROTECTION AND CONTROLLING SEDIMENT RUNOFF AND DISCHARGE FROM THE SITE. THEREFORE, WHERE NECESSARY THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL MEASURES ARRANGED IN SUCH A MANNER AS TO MITIGATE SEDIMENT RELEASE FROM THE CONSTRUCTION OPERATIONS AND ACHIEVE SPECIFIC MAXIMUM PERMITTED CRITERIA WHERE APPLICABLE. SUGGESTED ON-SITE MEASURES MAY INCLUDE, BUT SHALL NOT BE LIMITED TO, THE FOLLOWING METHODS: SEDIMENT PONDS, FILTER BAGS, PUMP FILTERS, SETTLING TANKS, SILT FENCES, STRAW BALES, FILTER CLOTHS, CATCH BASIN FILTERS, CHECK DAMS AND/OR BERMS, OR OTHER RECOGNIZED TECHNOLOGIES AND METHODS AVAILABLE AT THE TIME OF CONSTRUCTION, SPECIFIC MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF OPSS 577 WHERE APPROPRIATE, OR IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.

WHERE, IN THE OPINION OF THE CONTRACT ADMINISTRATOR OF REGULATORY AGENCY, THE INSTALLED CONTROL MEASURES FAIL TO PERFORM ADEQUATELY, THE CONTRACTOR SHALL SUPPLY AND INSTALL ADDITIONAL OR ALTERNATIVE MEASURES AS DIRECTED BY THE CONTRACT ADMINISTRATOR OR

REGULATORY AGENCY, AS SUCH, THE CONTRACTOR SHALL HAVE ADDITIONAL CONTROL MATERIALS ON SITE AT ALL TIMES WHICH ARE EASILY ACCESSIBLE AND MAY BE IMPLEMENTED BY HIM AT A MOMENT'S NOTICE.

PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL SUBMIT TO THE CONTRACTOR ADMINISTRATOR SIX COPIES OF A DETAILED EROSION AND SEDIMENT CONTROL PLAN (ESCP). THE ESCP WILL CONSIST OF A WRITTEN DESCRIPTION AND DETAILED DRAWINGS INDICATING THE ON-SITE ACTIVITIES AND MEASURES TO BE USED TO CONTROL EROSION AND SEDIMENT MOVEMENT FOR EACH STEP OF THE WORK.

THE CONTRACTOR SHALL ENSURE THAT ALL WORKERS, INCLUDING SUB-CONTRACTORS, IN THE WORKING AREA ARE AWARE OF THE IMPORTANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES AND INFORMED OF THE CONSEQUENCES OF THE FAILURE TO COMPLY WITH THE REQUIREMENTS OF ALL REGULATORY AGENCIES.

THE CONTRACTOR SHALL PERIODICALLY, AND WHEN REQUESTED BY THE CONTRACTOR ADMINISTRATOR, CLEAN OUT ACCUMULATED SEDIMENT DEPOSITS AS REQUIRED AT THE SEDIMENT CONTROL DEVICES, INCLUDING THOSE DEPOSITS THAT MAY ORIGINATE FROM OUTSIDE THE CONSTRUCTION AREA. ACCUMULATED SEDIMENT SHALL BE REMOVED IN SUCH A MANNER THAT PREVENTS THE DEPOSITION OF THIS MATERIAL INTO ANY SEWER OR WATERCOURSE AND AVOIDS DAMAGE TO THE CONTROL MEASURE. THE SEDIMENT SHALL BE REMOVED FROM THE SITE AT THE CONTRACTOR'S EXPENSE AND MANAGED IN COMPLIANCE WITH THE REQUIREMENTS FOR EXCESS EARTH MATERIAL, AS SPECIFIED ELSEWHERE IN THE CONTRACT.

THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE CONTRACT ADMINISTRATOR ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO EITHER THE WATERCOURSE OR THE STORM SEWER SYSTEM. FAILURE TO REPORT WILL BE CONSTITUTE A BREACH OF THIS SPECIFICATION AND THE CONTRACTOR MAY ALSO BE SUBJECT TO THE PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.

THE SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED WHEN, IN THE OPINION OF THE CONTRACT ADMINISTRATOR, THE MEASURE OR MEASURES, IS NO LONGER REQUIRED. NO CONTROL MEASURES MAY BE PERMANENTLY REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE CONTRACT ADMINISTRATOR. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED IN A MANNER THAT AVOIDS THE ENTRY OF ANY EQUIPMENT, OTHER THAN HAND-HELD EQUIPMENT, INTO ANY WATERCOURSE, ANY PREVENTS THE RELEASE OF ANY SEDIMENT OR DEBRIS INTO ANY SEWER OR WATERCOURSE WITHIN OR DOWNSTREAM OF THE WORKING AREA. ALL ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE WORKING AREA AT THE CONTRACTOR'S EXPENSE AND MANAGED IN COMPLIANCE WITH THE REQUIREMENTS FOR EXCESS EARTH MATERIAL.

WHERE, IN THE OPINION OF EITHER THE CONTRACTOR ADMINISTRATOR OR A REGULATORY AGENCY, ANY OF THE TERMS SPECIFIED HEREIN HAVE NOT BEEN COMPLIED WITH OR PERFORMED IN A SUITABLE MANNER, OR AT ALL, THE CONTRACTOR ADMINISTRATOR OR REGULATORY AGENCY HAS THE RIGHT TO IMMEDIATELY WITHDRAW ITS PERMISSION TO CONTINUE THE WORK BUT MAY RENEW ITS PERMISSION UPON BEING SATISFIED THAT DEFAULTS OR DEFICIENCIES IN THE PERFORMANCE OF THIS SPECIFICATION BY THE CONTRACTOR HAVE BEEN REMEDIED.

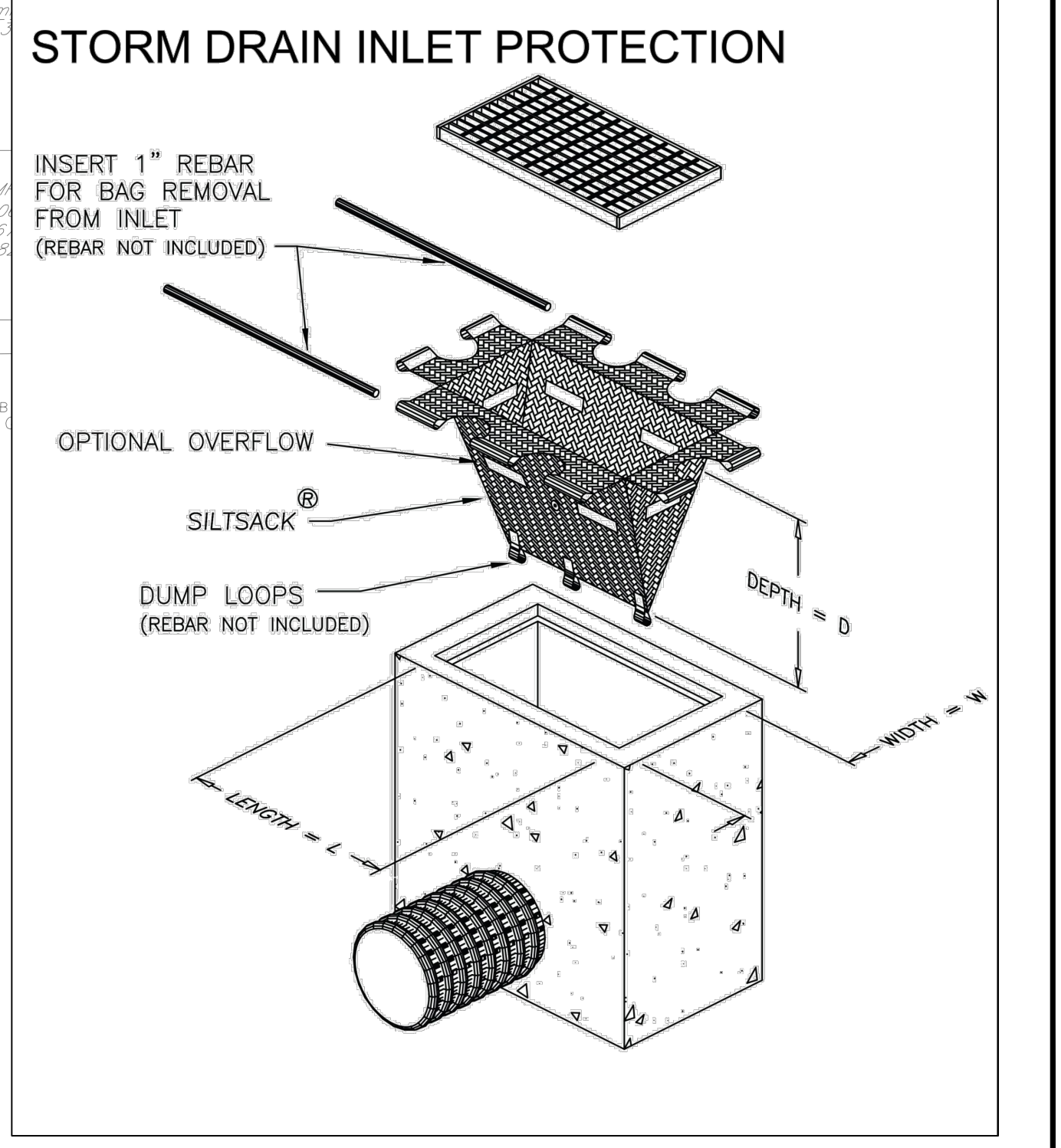
CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.

SPILL CONTROL NOTES

- ALL CONSTRUCTION EQUIPMENT SHALL BE RE-FUELED, MAINTAINED, AND STORED NO LESS THAN 30 METRES FROM WATERCOURSES, STREAMS, CREEKS, WOODLOTS, AND ANY ENVIRONMENTALLY SENSITIVE AREAS, OR AS OTHERWISE SPECIFIED.
- THE CONTRACTOR MUST IMPLEMENT ALL NECESSARY MEASURES IN ORDER TO PREVENT LEAKS, DISCHARGES OR SPILLS OF POLLUTANTS, DELETERIOUS MATERIALS, OR OTHER SUCH MATERIALS OR SUBSTANCES WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT.
- IN THE EVENT OF A LEAK, DISCHARGE OR SPILL OF A POLLUTANT, DELETERIOUS MATERIAL OR OTHER SUCH MATERIAL OR SUBSTANCE WHICH WOULD OR COULD CAUSE AN ADVERSE IMPACT TO THE NATURAL ENVIRONMENT, THE CONTRACTOR SHALL:
 - IMMEDIATELY NOTIFY THE APPROPRIATE FEDERAL, PROVINCIAL AND LOCAL GOVERNMENT MINISTRIES, DEPARTMENTS, AGENCIES, AND AUTHORITIES OF THE INCIDENT IN ACCORDANCE WITH ALL CURRENT LAWS, LEGISLATION, ACTS, BY-LAWS, PERMITS, APPROVALS, ETC.
 - TAKE IMMEDIATE MEASURES TO CONTAIN THE MATERIAL OR SUBSTANCE, AND TO TAKE SUCH MEASURES TO MITIGATE AGAINST ADVERSE IMPACTS TO THE NATURAL ENVIRONMENT.
 - RESTORE THE AFFECTED AREA TO THE ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITIES HAVING JURISDICTION.

MUD MAT NOTES

- THE GRANULAR MATERIAL WILL REQUIRE PERIODIC REPLACEMENT AS IT BECOMES CONTAMINATED BY VEHICLE TRAFFIC.
- SEDIMENT SHALL BE CLEANED FROM PUBLIC ROADS AT THE END OF EACH DAY.
- SEDIMENT SHALL BE REMOVED FROM PUBLIC ROADS BY SHOVELING OR SWEEPING AND DISPOSED OF PROPERLY IN A CONTROLLED SEDIMENT DISPOSAL AREA.



CONTRACT DRAWINGS:
 Contractor must verify all dimensions and be responsible for same. Any discrepancies must be reported to the Engineer before commencing work. Drawings are not to be copied, distributed or used by others without the express written consent of Aniley Graham & Associates Limited. The recipient is responsible for confirming the accuracy and completeness of the information with the originator. The recipient assumes all risks and liabilities associated with the use of the drawings. The recipient will save and hold harmless Aniley Graham & Associates Limited for any claims whatsoever associated with or related to the use of the drawings. The recipient will not reuse any portion of the drawings for any future project without the express written permission of Aniley Graham & Associates Limited.

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1	ISSUED FOR MUNICIPAL REVIEW	NOV 20/20	DSEL	1	ISSUED FOR MUNICIPAL REVIEW	NOV 20/20	DSEL
6	REVISED AS PER ROUND 3 CITY COMMENTS	MAY 12/20	JX	6	REVISED AS PER ROUND 3 CITY COMMENTS	MAY 12/20	JX

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Professional Engineers
 Ontario
 MAY 12, 2022
Limited Licensee
 Name: J.W.XU
 Number: 100171806
 Category: CIVIL see limitation
 Limitations:
 This license is subject to the limitations as detailed on the certificate.
 Association of Professional Engineers of Ontario

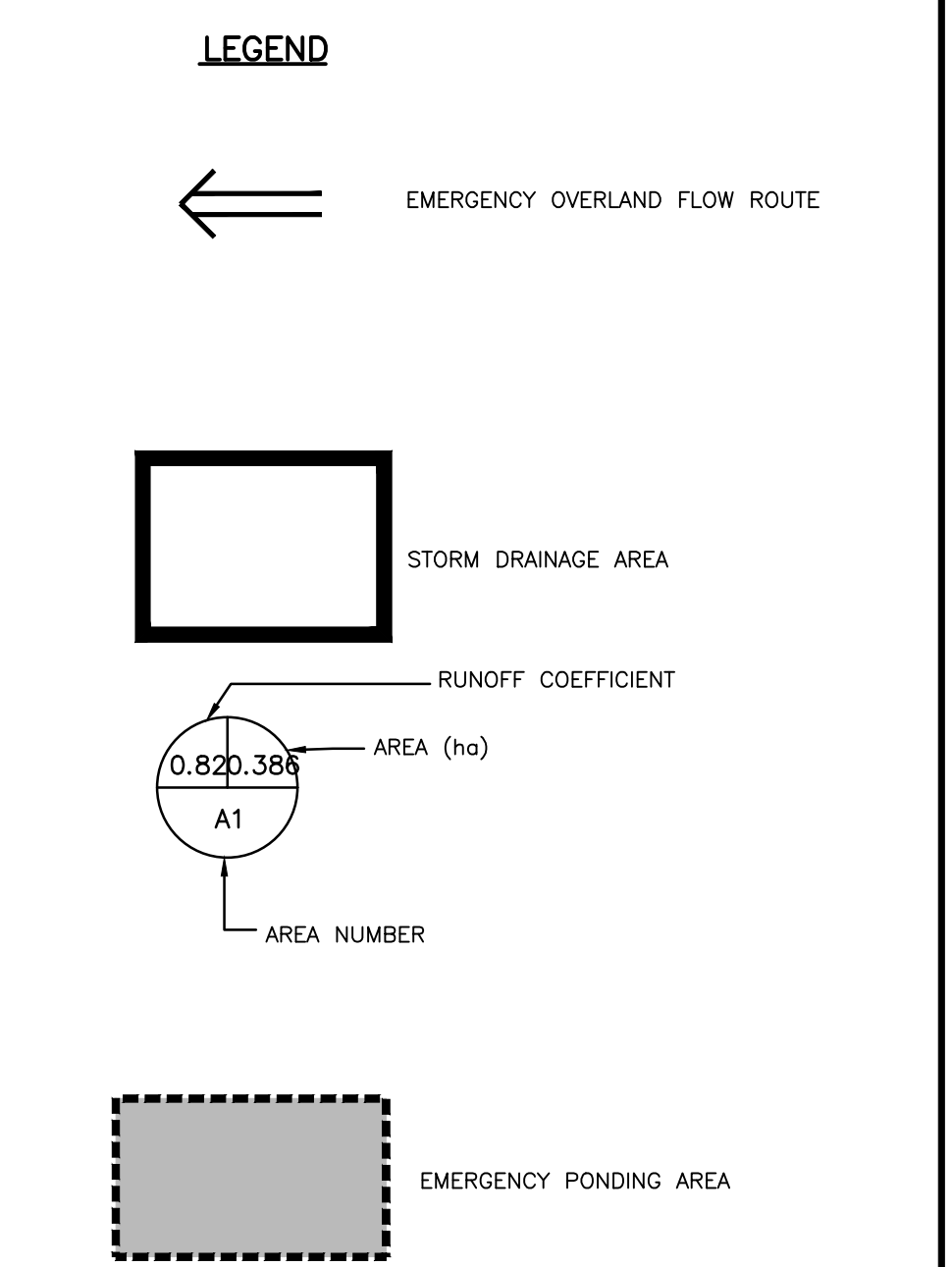
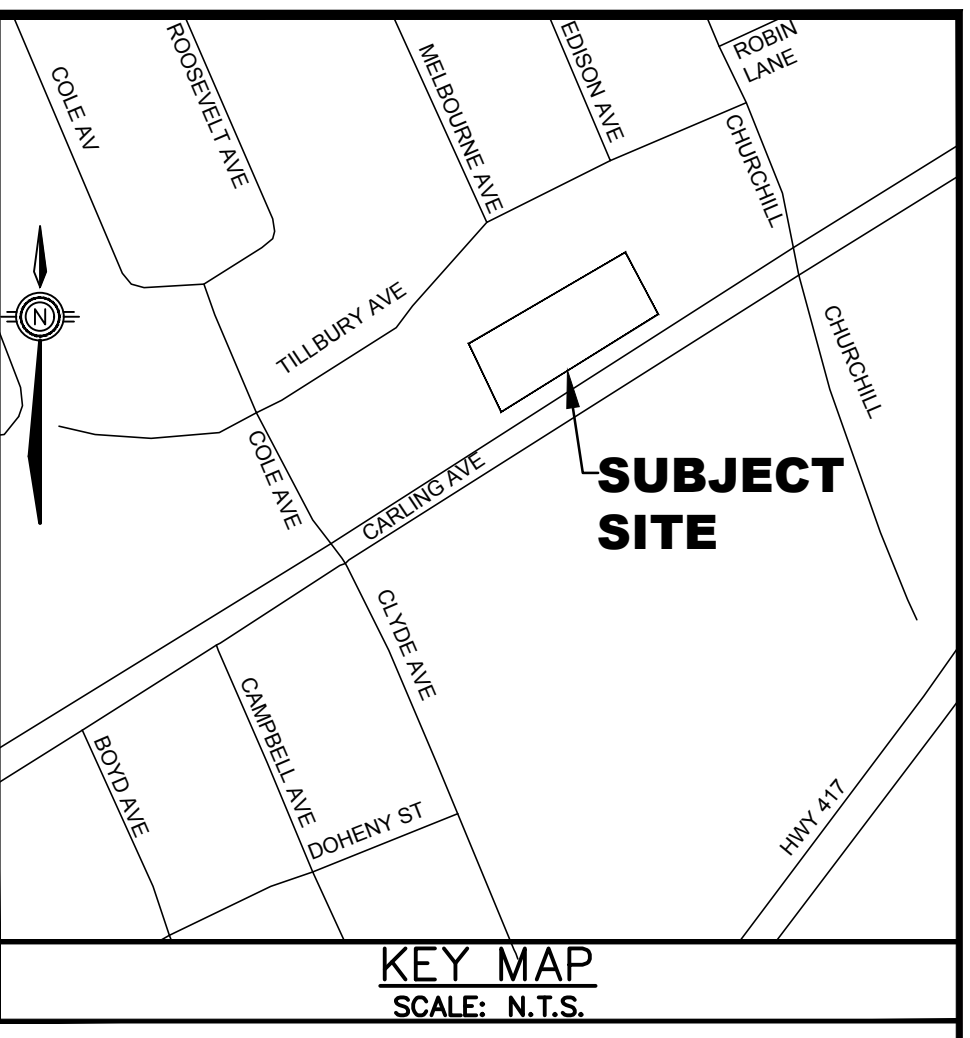
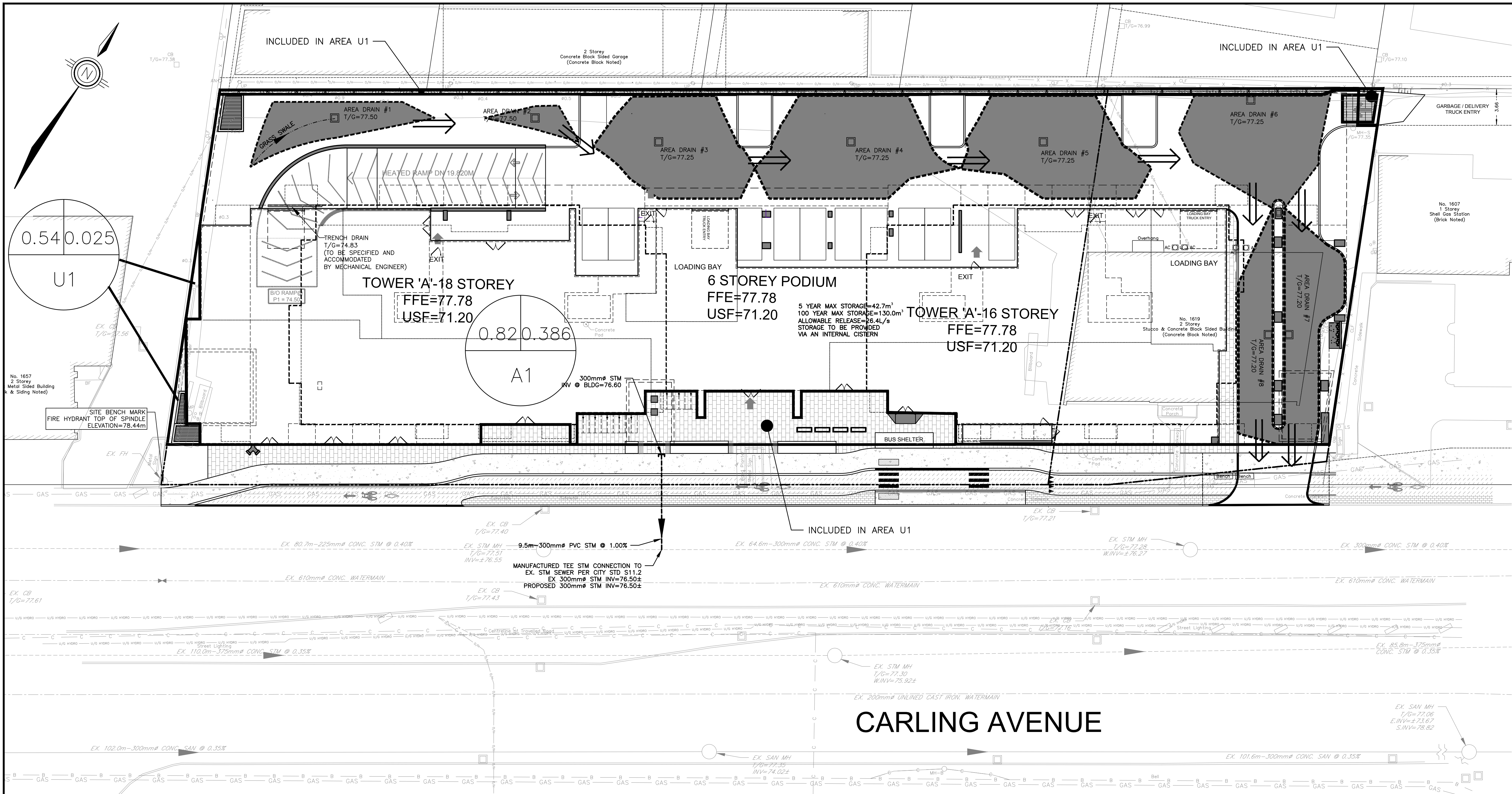
SCALE: 1 : 200
 DESIGN: JX
 DRAWN: MH
 CHECKED: GSC/JX
 DATE: JAN. 2022

1619 & 1655 CARLING AVENUE
 CITY OF OTTAWA

Aniley
 2724 Fenton Road
 Ottawa, Ontario
 K1T 3T7
 Telephone: (613) 822-1052
 Fax: (613) 822-1573

EROSION CONTROL PLAN
 DRAWING NO. EC-1
 SHEET NO. 4 OF 8

D07-12-20-0146 #18035



May 13, 2022 I:\DRAWINGS\22002-1 1655 Carling Avenue Design\005-22002-SWM 1.dwg

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Professional Engineers
Ontario
MAY 12, 2022

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Association of Professional Engineers of Ontario

SCALE: 1 : 200
DESIGN: JX
DRAWN: MH
CHECKED: GSC/JX
DATE: JAN. 2022

1619 & 1655 CARLING AVENUE
CITY OF OTTAWA

STORMWATER MANAGEMENT PLAN

TOPOGRAPHIC INFORMATION
TOPOGRAPHIC INFORMATION PROVIDED BY FARLEY, SMITH & DENIS SURVEYING LTD.
PROJ. NO. 83-19
DATED NOVEMBER 12, 2020

SITE PLAN INFORMATION
SITE PLAN PROVIDED BY RLA ARCHITECTURE.
PROJ. NO. 1927
DATED MARCH 11, 2021

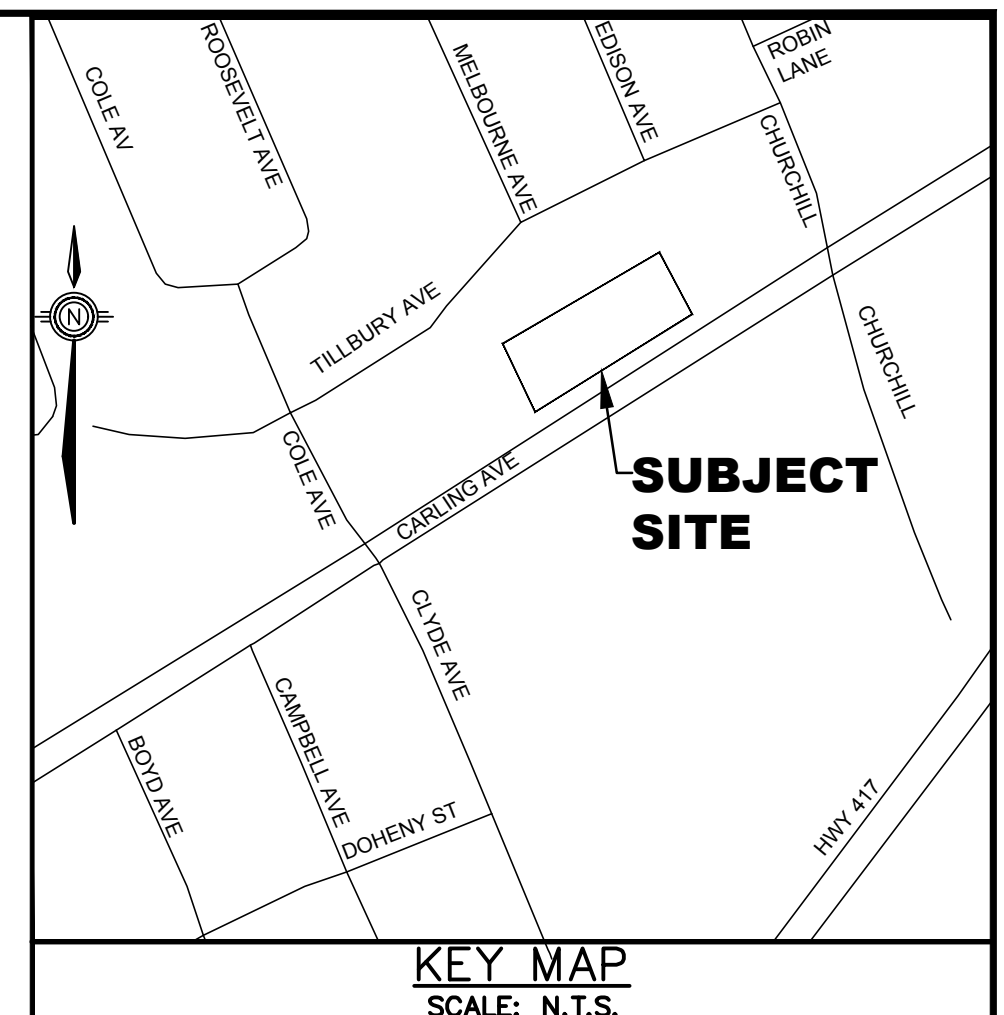
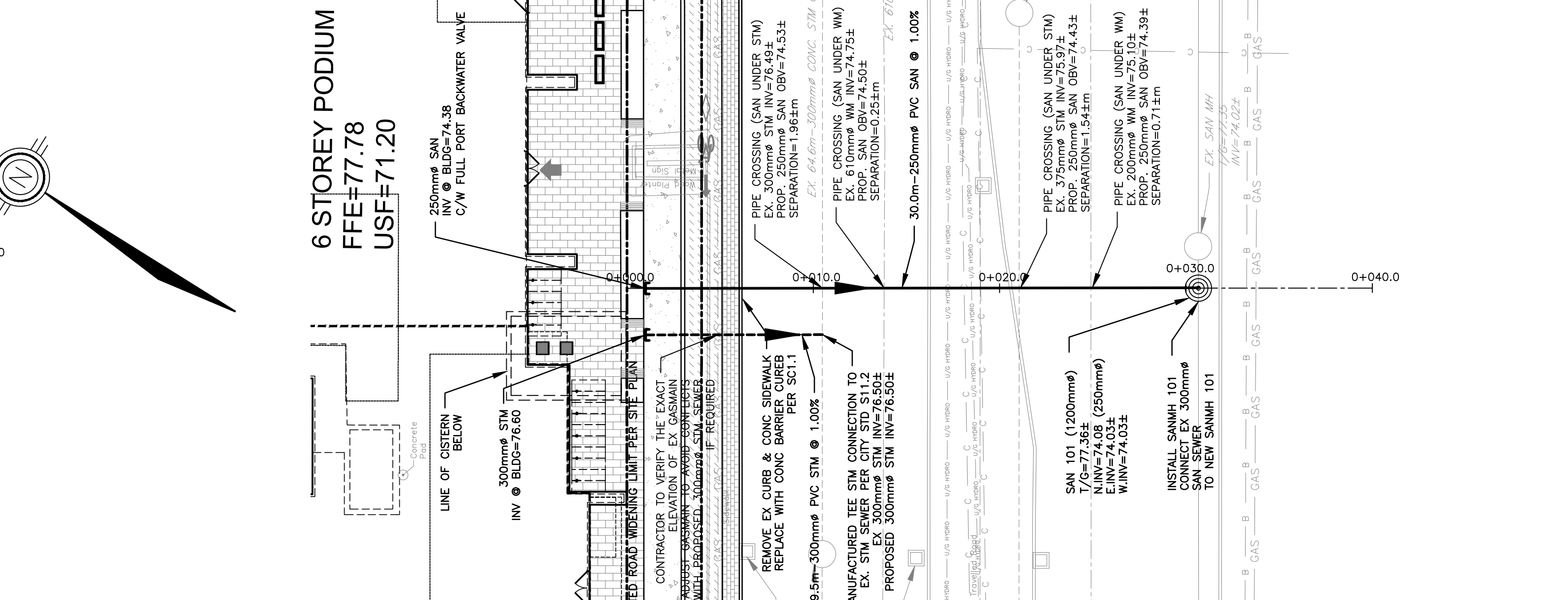
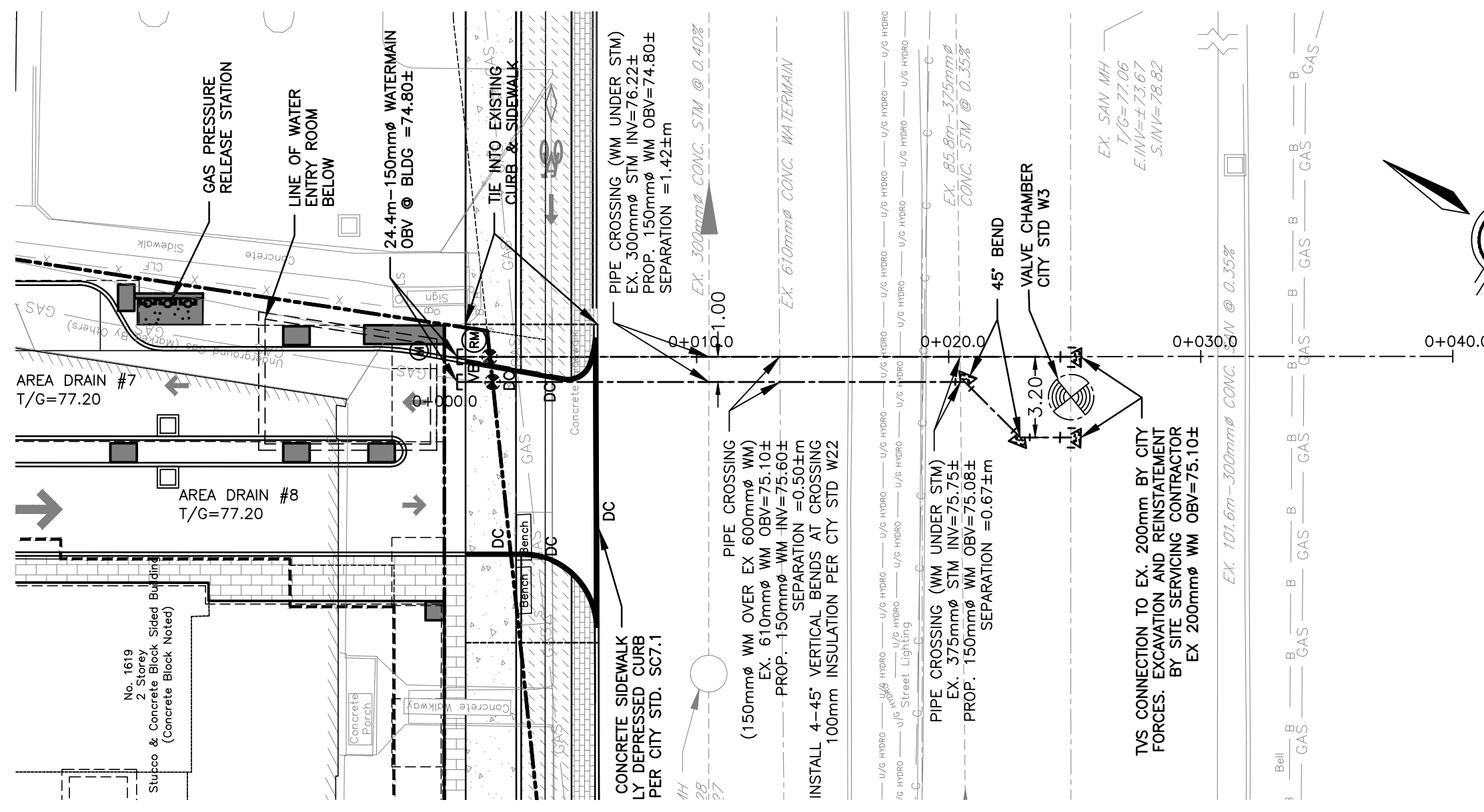
GEOTECHNICAL STUDY
GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PATERSON GROUP
PROJ. NO. PCS118-1
DATED DECEMBER 1, 2020

SITE SERVICES AND STORMWATER MANAGEMENT STUDY
SERVICING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY AINLEY
PROJ. NO. 22002-1
DATED JANUARY, 2022

BENCH MARK
LOCATED AT FIRE HYDRANT TOP OF SPINDLE
ELEV=78.44

DRAWING NO. SWM-1
SHEET NO. 5 OF 8

#18035



LEGEND

- PROPERTY LINE
- EXISTING SANITARY SEWER
- EXISTING WATERMAIN
- EXISTING STORM SEWER
- x— EXISTING FENCE
- EXISTING UTILITY POLE
- EXISTING CATCHBASIN
- EXISTING UNDERGROUND HYDRO
- EXISTING OVERHEAD HYDRO
- EXISTING BELL LINE
- EXISTING GASMAIN
- EXISTING CABLE LINE
- PROPOSED STORM SEWER
- PROPOSED SANITARY SEWER
- PROPOSED WATERMAIN
- DEPRESSED CURB
- PROPOSED WATER METER
- PROPOSED REMOTE WATER METER
- PROPOSED WATERMAIN BEND
- PROPOSED VALVE BOX/VALVE CHAMBER
- AREA DRAIN TO BE SPECIFIED AND ACCOMMODATED BY MECHANICAL ENGINEER

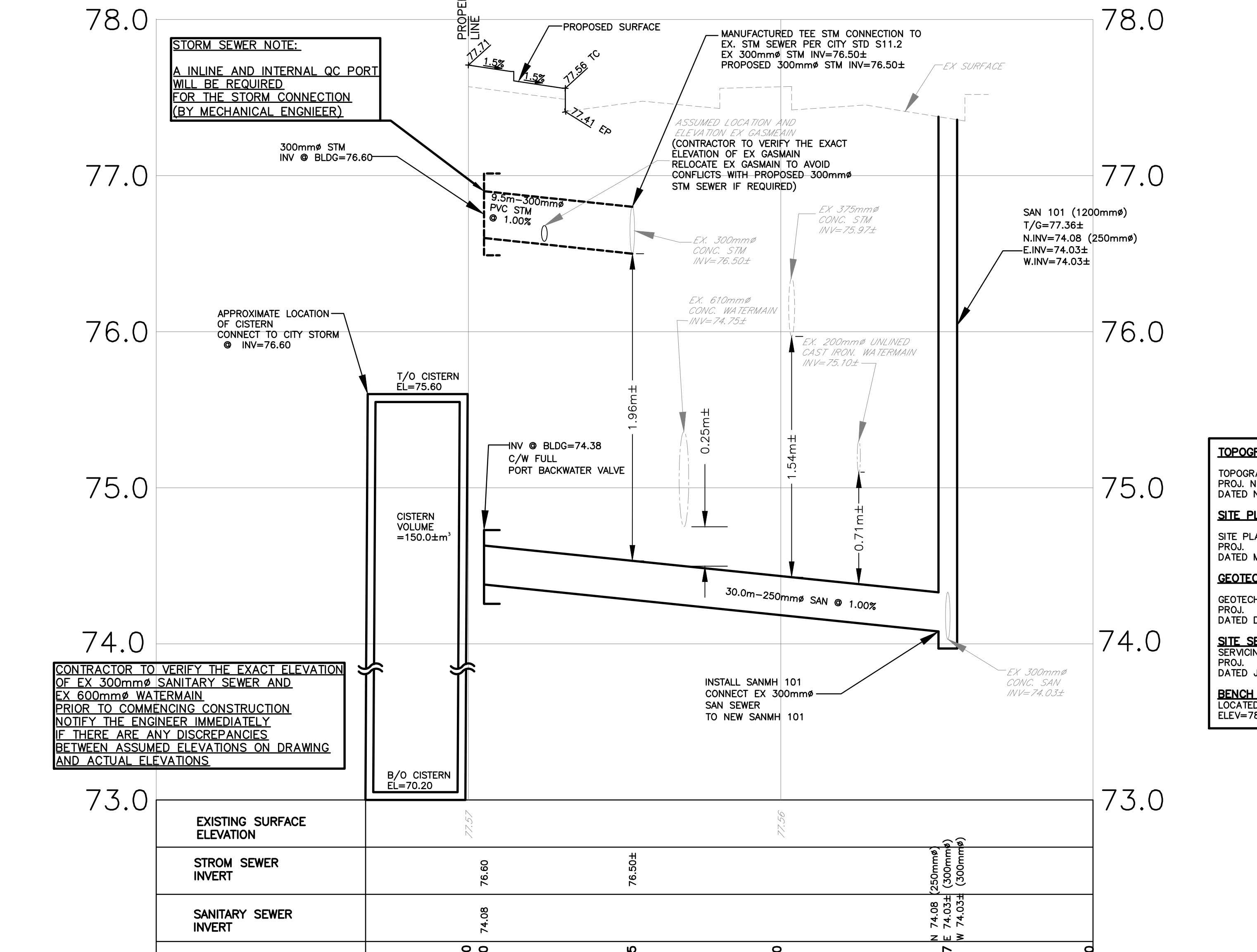
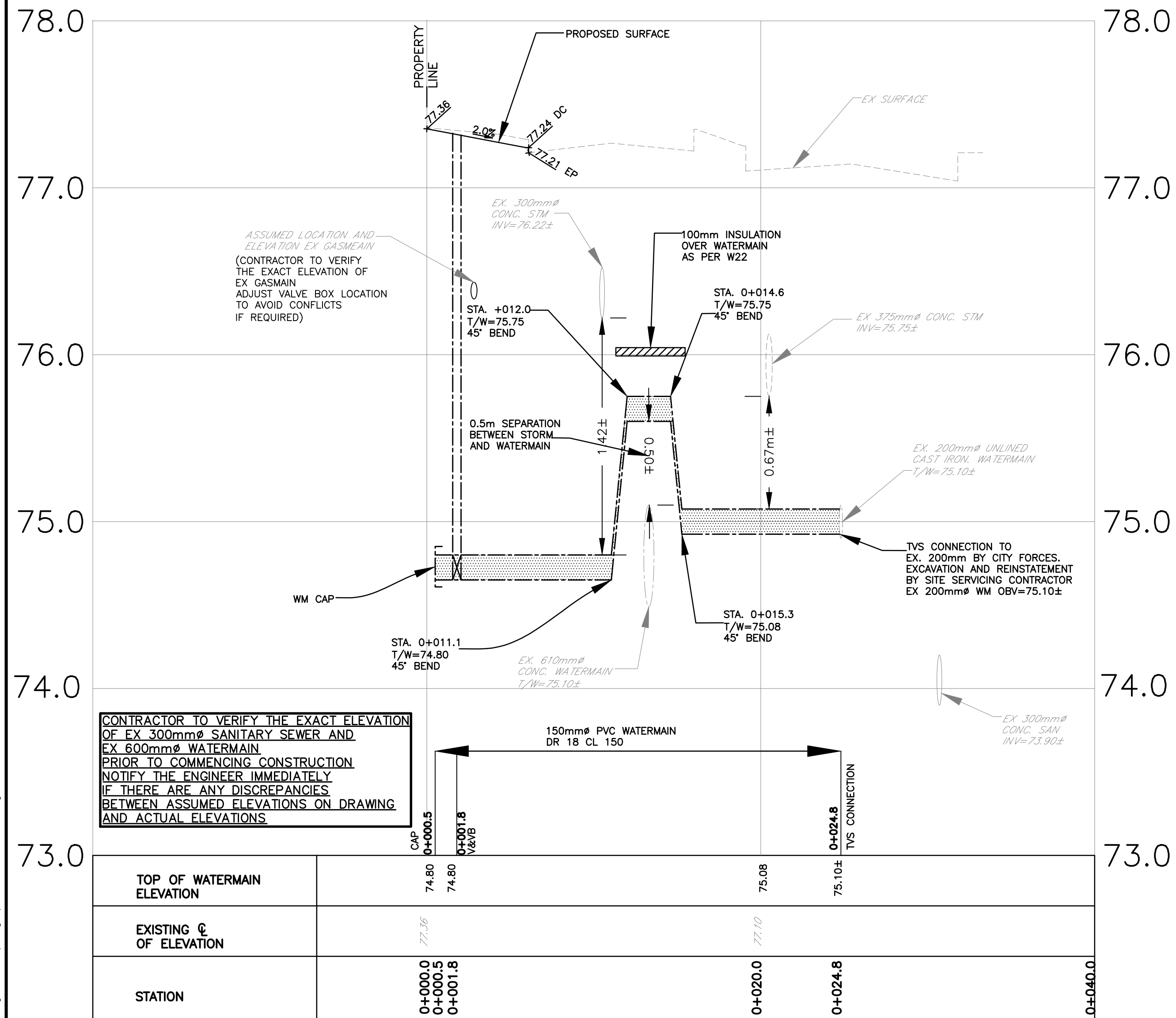
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 DATED NOVEMBER 12, 2020

SITE PLAN INFORMATION
 SITE PLAN PROVIDED BY RLA ARCHITECTURE.
 PROJ. NO. 1927
 DATED MARCH 11, 2021

GEOTECHNICAL STUDY
 GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PATERSON GROUP
 PROJ. NO. P0518-1
 DATED DECEMBER 1, 2020

SITE SERVING AND STORMWATER MANAGEMENT STUDY
 SERVING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY ANLEY
 PROJ. NO. 22002-1
 DATED JANUARY, 2022

BENCH MARK
 LOCATED AT FIRE HYDRANT TOP OF SPINDLE
 ELEV=78.44



CONTRACTOR TO VERIFY THE EXACT ELEVATION OF EX 300mm SANITARY SEWER AND EX 600mm WATERMAIN PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES BETWEEN ASSUMED ELEVATIONS ON DRAWING AND ACTUAL ELEVATIONS.

CONTRACTOR TO VERIFY THE EXACT ELEVATION OF EX 300mm SANITARY SEWER AND EX 600mm WATERMAIN PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES BETWEEN ASSUMED ELEVATIONS ON DRAWING AND ACTUAL ELEVATIONS.

TOP OF WATERMAIN ELEVATION	EXISTING ϕ OF ELEVATION	STATION
74.80	77.36	0+000.0
74.80	77.00	0+001.8
75.09	77.10	0+020.0
75.104	75.04	0+024.8
		0+040.0

EXISTING SURFACE ELEVATION	STORM SEWER INVERT	SANITARY SEWER INVERT	STATION
77.57	76.60	74.08	0+000.0
	76.50±		0+001.0
			0+010.5
77.56			0+020.0
			0+030.7
			0+031.8
			0+033.4
			0+034.8
			0+036.2
			0+037.6
			0+039.0
			0+040.0

CONTRACT DRAWINGS:
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NO.	REVISIONS	DATE	INITIAL
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2	ISSUED FOR FULL BUILDING PERMIT	APR 08/22	JX
1	ISSUED FOR REVIEW/COORDINATION	MAR 31/22	JX

Not Valid Unless Signed And Dated

Professional Engineers
 Ontario
 MAY 12, 2022
Limited Licensee
 Name: J.W.XU
 Number: 100171806
 Category: CIVIL see limitation
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1619 & 1655 CARLING AVENUE
 CITY OF OTTAWA

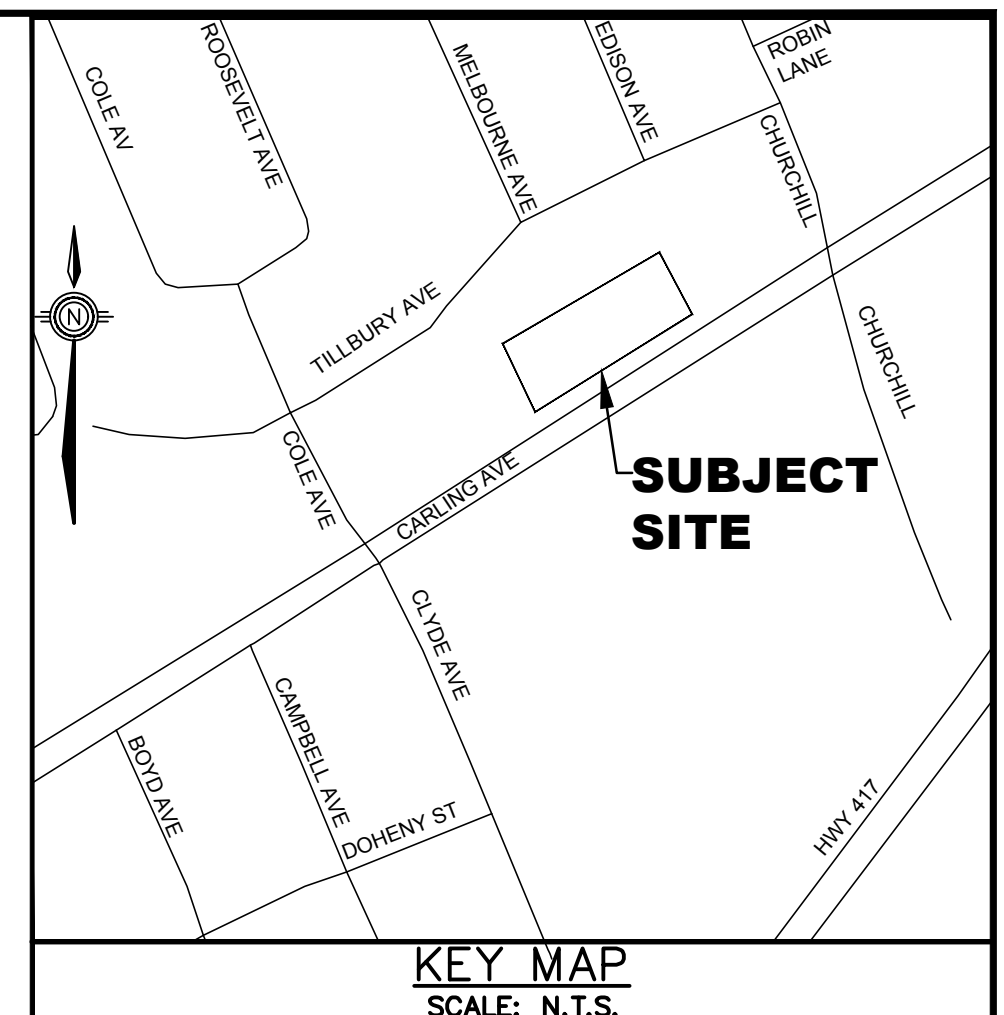
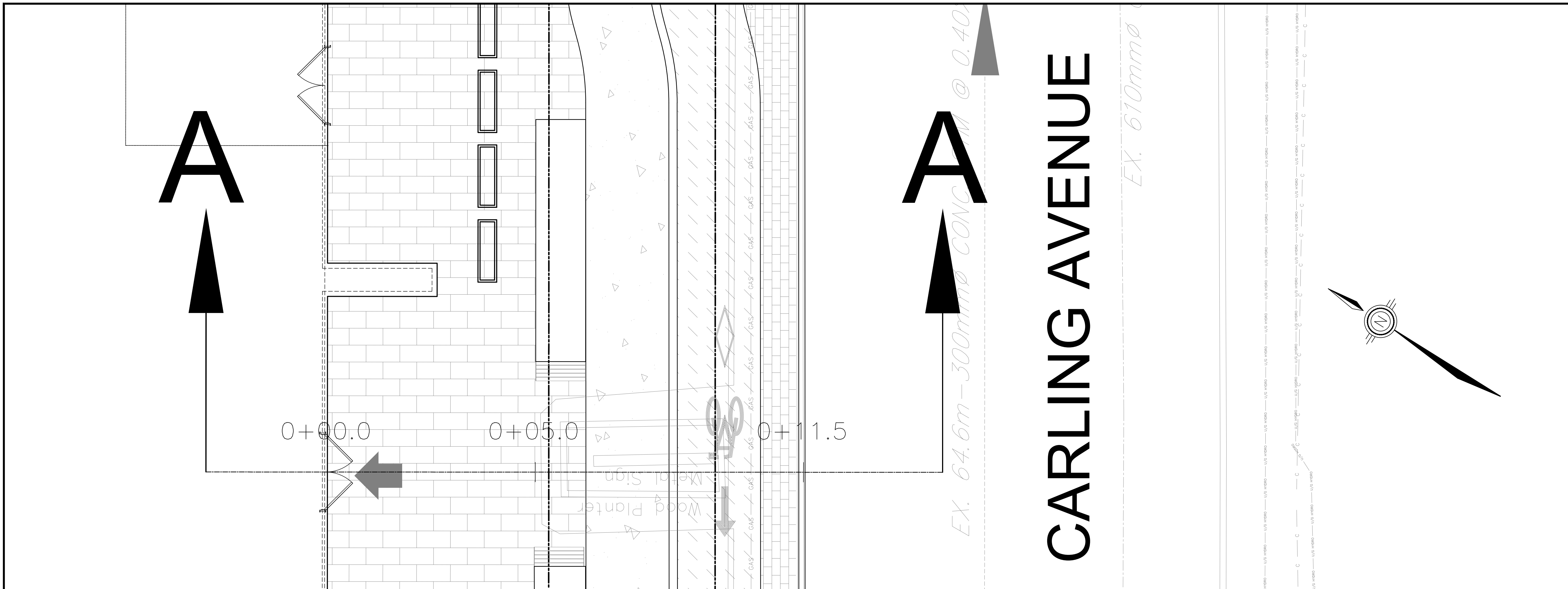
WATER SERVICE AND SANITARY SERVICE
 CROSS SECTIONS

Anley
 2724 Fenton Road
 Ottawa, Ontario
 K1T 3T7
 Telephone: (613) 822-1052
 Fax: (613) 822-1573

DRAWING NO. SEC-1
 SHEET NO. 6 OF 8

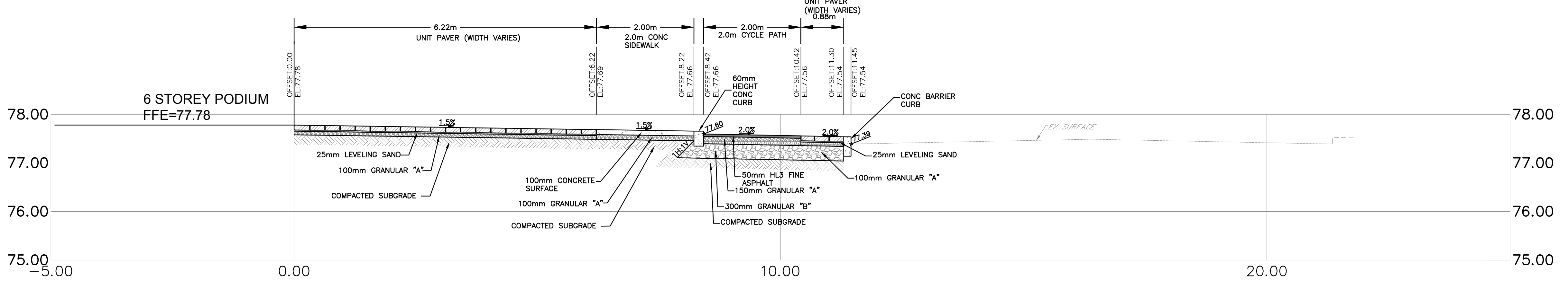
D07-12-20-0146

#18035



LEGEND

	PROPERTY LINE
	EXISTING SANITARY SEWER
	EXISTING WATERMAIN
	EXISTING STORM SEWER
	EXISTING FENCE
	EXISTING UTILITY POLE
	EXISTING CATCHBASIN
	EXISTING UNDERGROUND HYDRO
	EXISTING OVERHEAD HYDRO
	EXISTING BELL LINE
	EXISTING GASMAIN
	EXISTING CABLE LINE
	PROPOSED STORM SEWER
	PROPOSED SANITARY SEWER
	PROPOSED WATERMAIN
	DEPRESSED CURB
	PROPOSED WATER METER
	PROPOSED REMOTE WATER METER
	PROPOSED WATERMAIN BEND
	PROPOSED VALVE BOX/VALVE CHAMBER
	AREA DRAIN TO BE SPECIFIED AND ACCOMMODATED BY MECHANICAL ENGINEER



CONCRETE SIDEWALK NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%
3. INSTALL DUMMY TRANSVERSE JOINTS AS REQUIRED SO THERE IS A MAXIMUM SPACING OF 2.0m BETWEEN JOINTS.
4. SIDEWALK NOT TO BE DEPRESSED ACROSS DRIVEWAY ACCESSES.
5. EXPANSION AND DUMMY JOINTS AS PER SC5.
6. EDGES AND JOINTS ARE TO BE FINISHED WITH A 75mm EDGING TOOL.
7. CONCRETE AND GRANULAR "A" IS TO BE INCREASED TO 150mm AT THE ENTRANCE AND 150mmX150mm MW9.1XMW9.1 REINFORCING MESH IS TO BE PLACED MID DEPTH WITHIN DRIVEWAY ACCESS AS PER SC4.

UNIT PAVER SIDEWALK NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%
3. EXPANSION AND DUMMY JOINTS AS PER SC5.

CYCLE PATH NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. THE MAXIMUM CROSS SLOPE IS NOT TO EXCEED 2%
3. GRANULAR "A" SHALL MEET THE REQUIREMENTS OF OPSS 1010.

CROSS SECTION A-A
SCALE HORZ: 1:50
VERT: 1:50

TOPOGRAPHIC INFORMATION
 TOPOGRAPHIC INFORMATION PROVIDED BY FARLEY, SMITH & DENIS SURVEYING LTD.
 PROJ. NO. 83-19
 DATED NOVEMBER 12, 2020

SITE PLAN INFORMATION
 SITE PLAN PROVIDED BY RLA ARCHITECTURE.
 PROJ. NO. 1927
 DATED MARCH 11, 2021

GEOTECHNICAL STUDY
 GEOTECHNICAL RECOMMENDATIONS PROVIDED BY PATERSON GROUP
 PROJ. NO. P05118-1
 DATED DECEMBER 1, 2020

SITE SERVICING AND STORMWATER MANAGEMENT STUDY
 SERVICING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY ANLEY
 PROJ. NO. 22002-1
 DATED JANUARY, 2022

BENCH MARK
 LOCATED AT FIRE HYDRANT TOP OF SPINDLE
 ELEV=78.44

May 13, 2022 I:\DRAWINGS\22002-1 1655 Carling Avenue Design\007-22002-DET1.dwg

CONTRACT DRAWINGS:
 Contractor must verify all dimensions and be responsible for same. Any discrepancies must be reported to the Engineer before commencing work. Drawings are not to be copied, distributed or used by others without the express written consent of Anley Graham & Associates Limited. Use of these drawings by any party for any other purpose is subject to the following caution.

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NO.	REVISIONS	DATE	INITIAL
2	REVISED AS PER ROUND 3 CITY COMMENTS	MAY 12/20	JX
1	ISSUED FOR REVIEW/COORDINATION	MAY 09/22	JX

Not Valid Unless Signed And Dated

Professional Engineers Ontario
 Limited Licensee
 Name: J.W.XU
 Number: 100171806
 Category: CIVIL see limitation
 This license is subject to the limitations as detailed on the certificate.
 Association of Professional Engineers of Ontario

MAY 12, 2022

SCALE:	1 : 50
DESIGN:	JX
DRAWN:	MH
CHECKED:	GSC/JX
DATE:	JAN. 2022

1619 & 1655 CARLING AVENUE
 CITY OF OTTAWA

UNIT PAVER, CONCRETE SIDEWALK
 AND CYCLE PATH DETAILS
 SECTION A-A

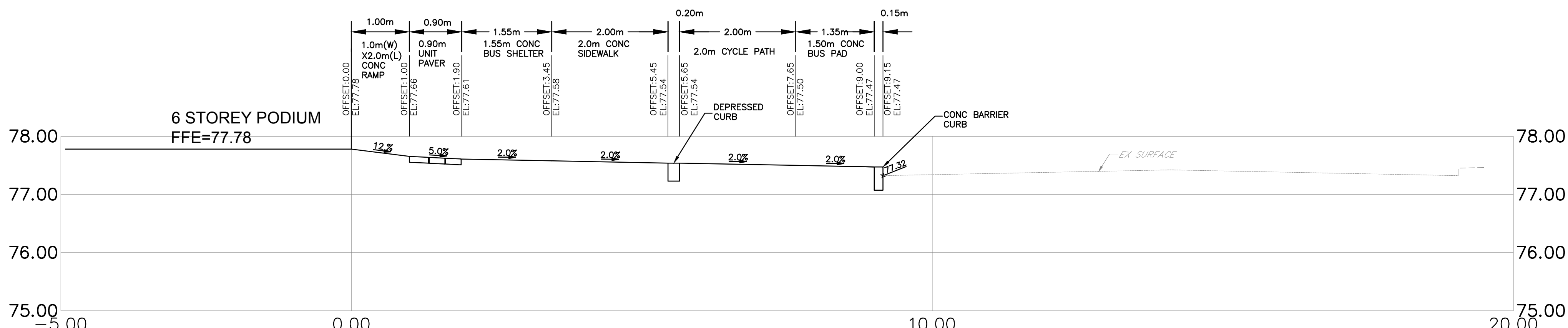
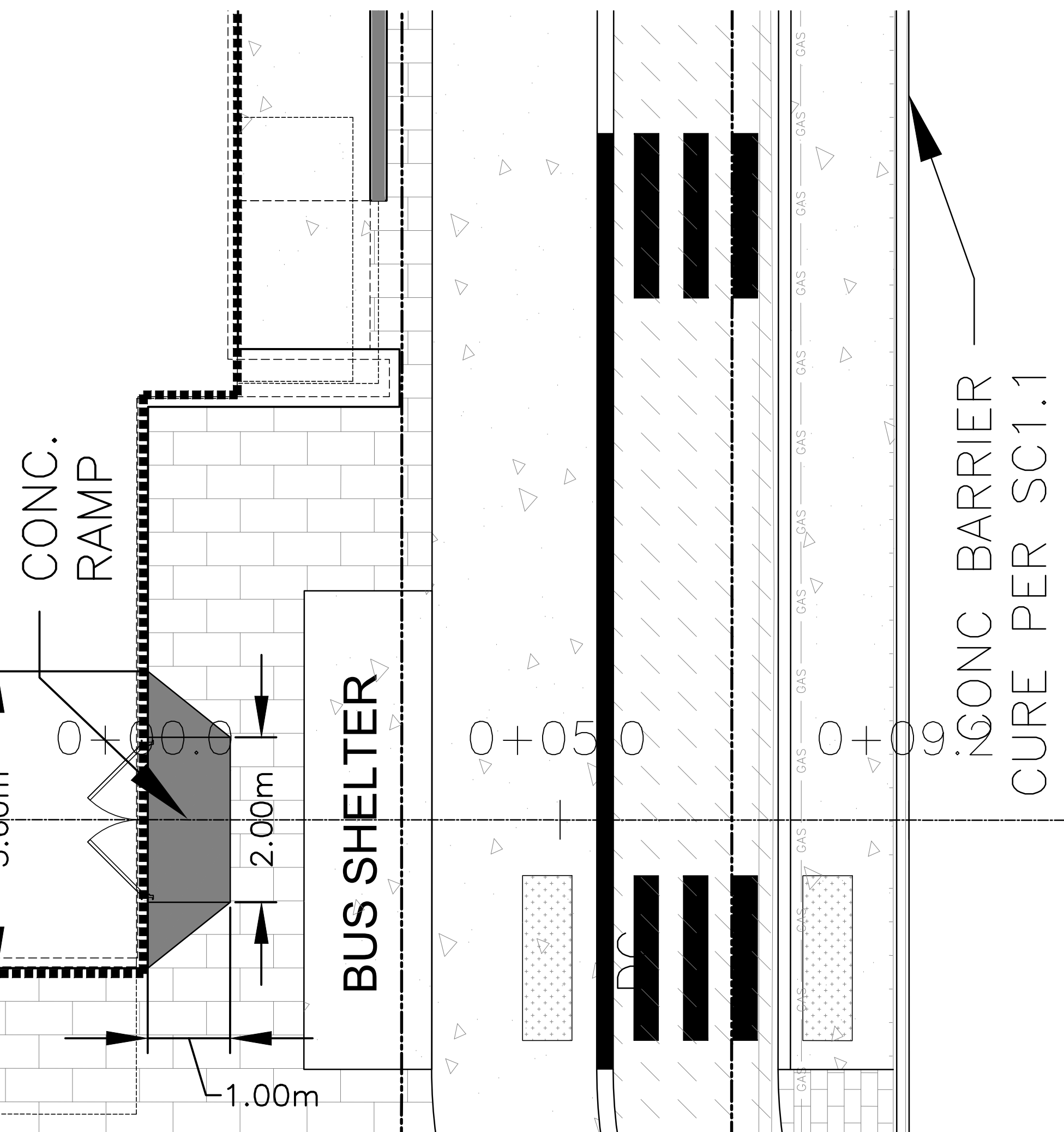
2724 Fenton Road
 Ottawa, Ontario
 K1T 3T7
 Telephone: (613) 822-1052
 Fax: (613) 822-1573

DRAWING NO.	SHEET NO.
DET-1	7 OF 8

#18035

B

B



CONCRETE SIDEWALK NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%
3. INSTALL DUMMY TRANSVERSE JOINTS AS REQUIRED SO THERE IS A MAXIMUM SPACING OF 2.0m BETWEEN JOINTS.
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UNIT PAVER SIDEWALK NOTES:

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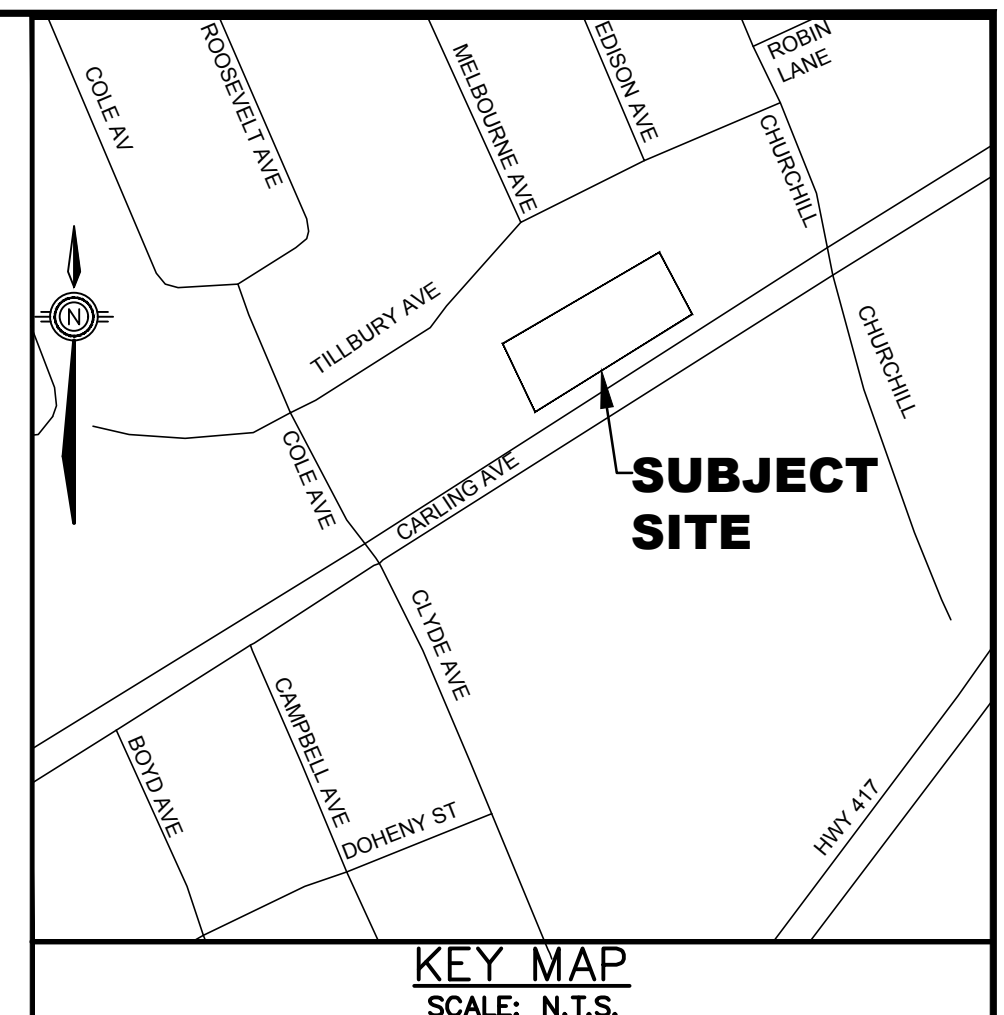
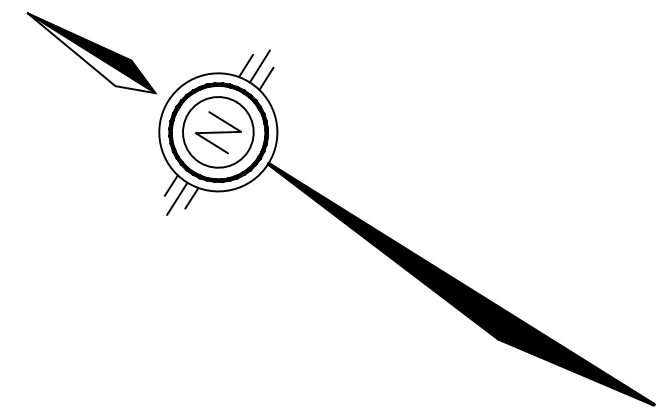
CYCLE PATH NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
2. THE MAXIMUM GROSS SLOPE IS NOT TO EXCEED 2%
3. GRANULAR "A" SHALL MEET THE REQUIREMENTS OF OPSS 1010.

CROSS SECTION B-B

SCALE HORZ: 1:50
VERT: 1:50

CARLING AVENUE



LEGEND	
	PROPERTY LINE
	EXISTING SANITARY SEWER
	EXISTING WATERMAIN
	EXISTING STORM SEWER
	EXISTING FENCE
	EXISTING UTILITY POLE
	EXISTING CATCHBASIN
	EXISTING UNDERGROUND HYDRO
	EXISTING OVERHEAD HYDRO
	EXISTING BELL LINE
	EXISTING GASMAIN
	EXISTING CABLE LINE
	PROPOSED STORM SEWER
	PROPOSED SANITARY SEWER
	PROPOSED WATERMAIN
	DEPRESSIONED CURB
	PROPOSED WATER METER
	PROPOSED REMOTE WATER METER
	PROPOSED WATERMAIN BEND
	PROPOSED VALVE BOX/VALVE CHAMBER
	AREA DRAIN TO BE SPECIFIED AND ACCOMMODATED BY MECHANICAL ENGINEER

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SITE PLAN PROVIDED BY RLA ARCHITECTURE. PROJ. NO. 1927 DATED MARCH 11, 2021
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SITE SERVICING AND STORMWATER MANAGEMENT STUDY
SERVICING AND STORMWATER MANAGEMENT RECOMMENDATIONS PROVIDED BY ANLEY PROJ. NO. 22002-1 DATED JANUARY, 2022
BENCH MARK
LOCATED AT FIRE HYDRANT TOP OF SPINDLE ELEV=78.44

May 13, 2022 I:\DRAWINGS\22002-1 1655 Carling Avenue Design\006-22002-DET2.dwg

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1	ISSUED FOR REVIEW/COORDINATION	MAY 09/22	JX

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Professional Engineers
Ontario
MAY 12, 2022
Limited Licensee
Name: J.W.XU
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This license is subject to the limitations as detailed on the certificate.
Association of Professional Engineers of Ontario

SCALE: 1 : 50
DESIGN: JX
DRAWN: MH
CHECKED: GSC/JX
DATE: JAN. 2022

1619 & 1655 CARLING AVENUE
CITY OF OTTAWA

UNIT PAVER, CONC BUS PAD,
CONC SIDEWALK AND CYCLE PATH DETAILS
SECTION B-B

		2724 Fenton Road Ottawa, Ontario K1T 3T7 Telephone: (613) 822-1052 Fax: (613) 822-1573
DRAWING NO.	SHEET NO.	
DET-2	8 OF 8	

#18035

D07-12-20-0146