REMOVALS

- FULL DEPTH ASPHALT REMOVAL (ROADWAY, DRIVEWAY, SIDEWALK)
- 50mm ASPHALT MILLING
- CONCRETE REMOVAL (SIDEWALK, ROADWAY, DRIVEWAY)
- CLEARING, GRUBBING, TOPSOIL STRIPPING, EARTH REMOVAL
- REMOVAL ITEM (PIPE, CURB, ETC.)
- REMOVAL ITEM (STRUCTURE, POST, ETC.)
- ITEMS TO REMAIN AND BE PROTECTED DURING CONSTRUCTION

GENERAL NOTES

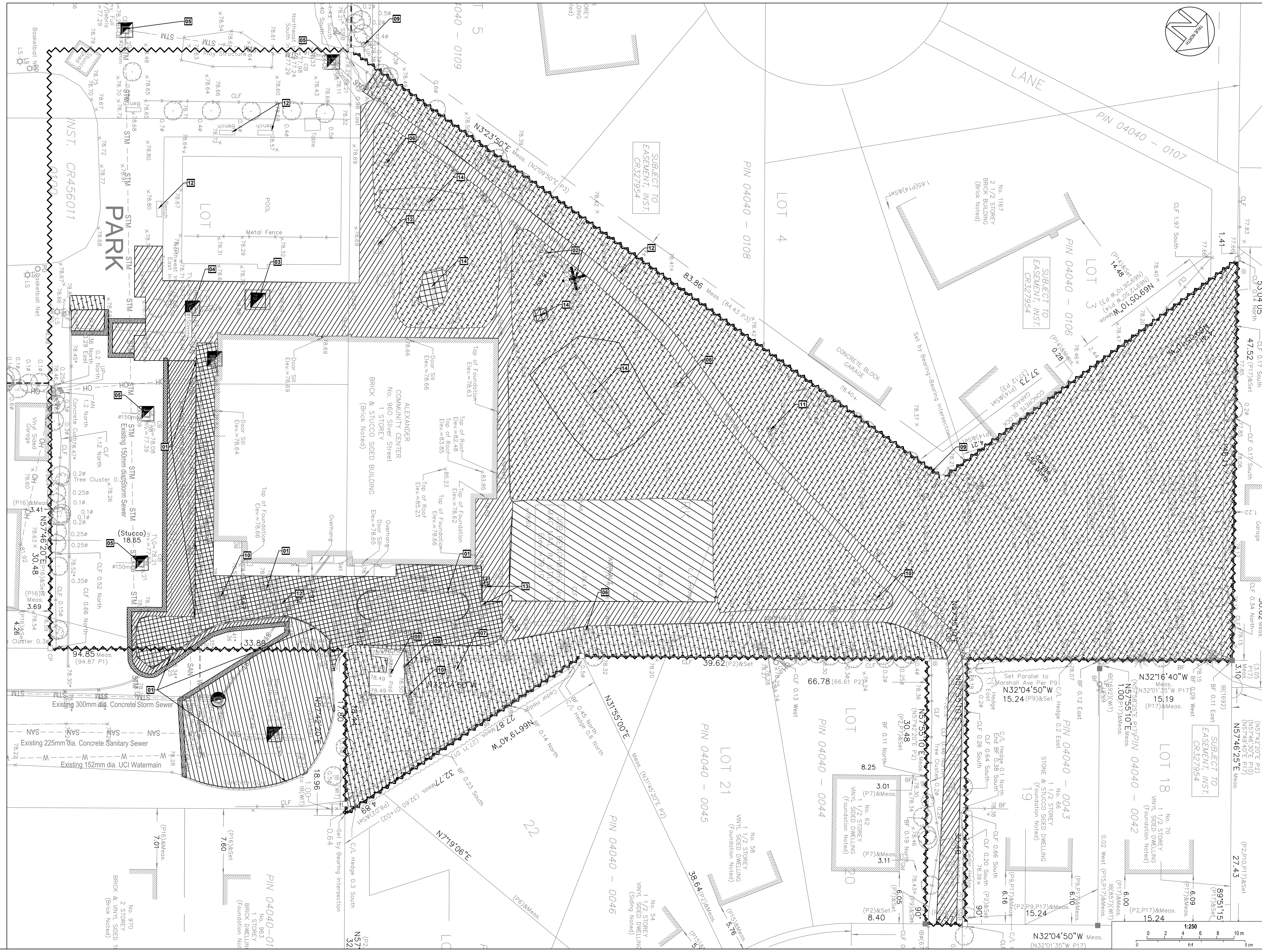
1. REFER TO LANDSCAPE DRAWINGS FOR TREE REMOVALS, TREES TO REMAIN, AND TREE PROTECTION DETAILS.
2. REFER TO ARCHITECTURAL DRAWINGS D1.01 AND D1.02 FOR ADDITIONAL SITE REMOVAL ITEMS.
3. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL EXTENTS OF ELECTRICAL SITE REMOVALS.
4. DESIGN AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH MOST RECENT ONTARIO BUILDING CODE.
5. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL DIMENSIONS WITH RESPECT TO SITE CONDITIONS AND ALL MATERIALS TO THE PROJECT. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
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9. CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED UTILITY LOCATES, DAYLIGHTING, INSPECTIONS, PERMITS, AND APPROVALS, INCLUDING ALL ASSOCIATED COSTS. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND BASED ON BEST AVAILABLE INFORMATION.

DRAWING NOTES

- 01 REMOVE EXISTING CURB TO FACILITATE NEW SIDEWALK AND CONCRETE WORKS.
- 02 REMOVE EXISTING CATCH BASIN AND CATCH BASIN LEAD. PROVIDE WATERTIGHT CONNECTION AT EXISTING CATCH BASIN TO REMAIN.
- 03 EXISTING STORM MANHOLE AND CONCRETE PAD TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- 04 EXISTING SANITARY MANHOLE TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- 05 EXISTING CATCH BASIN TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
- 06 EXISTING LIGHT STANDARD TO BE REMOVED, REFER TO ELECTRICAL.
- 07 EXISTING HYDRO TRANSFORMER AND CONCRETE PAD TO REMAIN.
- 08 EXISTING BIKE RACK AND CONCRETE PAD TO REMAIN.
- 09 EXISTING UTILITY POLE TO REMAIN
- 10 EXISTING LIGHT STANDARD HEAD TO BE REMOVED AND REPLACED, REFER TO ELECTRICAL
- 11 EXISTING UTILITY POLE TO BE REMOVED.
- 12 EXISTING BENCH TO BE REMOVED / RELOCATED, REFER TO LANDSCAPE DRAWINGS.
- 13 REMOVE / RELOCATE EXISTING CONCRETE PLANTER.
- 14 EXISTING PLAYGROUND EQUIPMENT TO BE REMOVED / RELOCATED, RERFER TO LANDSCAPE DRAWINGS

APPROVED
By Ingrid Lu at 7:37 am, Oct 21, 2026

INGRID LU
PLANNER 1
PLANNING, DEVELOPMENT AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA



Ottawa
INFRASTRUCTURE SERVICES
DESIGN AND CONSTRUCTION

SERVICES D'INFRASTRUCTURE
DIRECTION DE CONCEPTION ET DE CONSTRUCTION

FOR / POUR
Client - Department
Infrastructure and Water Services Department
Design & Construction

NUMBER/ NUMÉRO	MILESTONE / FAIT SAILLANT	DATE: (Y/M/D) (A/M/J)	INITIALS INITIALES
6	ISSUED FOR SITE PLAN CONTROL REV-2.1	26/10/15	R.I. / Z.B.
5	ISSUED FOR SITE PLAN CONTROL REV-2	26/08/20	R.I. / Z.B.
4	ISSUED FOR DEMOLITION TENDER	26/08/13	R.I. / Z.B.
3	ISSUED FOR 99% REVIEW / PERMIT	26/05/26	R.I. / Z.B.
2	ISSUED FOR 66%	26/04/17	R.I. / Z.B.
1	ISSUED FOR SITE PLAN CONTROL REV-1	26/04/14	R.I. / Z.B.

DESIGNED BY / CONCU PAR	CHECKED BY / VERIFIE PAR
ZACH BAUMAN	ALI SAMMOUR
DRAWN BY / DESSINE PAR	SCALE / ECHELLE
RAFAT ISMAIL	1:250

DETAIL NUMBER
1 / A1.1 DRAWING TITLE
SCALE:
SHEET NUMBER

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ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL
LICENSED PROFESSIONAL ENGINEER
Z. E. BAUMAN
100578796
October 15, 2026
PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL
LICENSED PROFESSIONAL ENGINEER
A. SAMMOUR
100227665
Oct. 15, 2026
PROVINCE OF ONTARIO

PROJECT / LOCATION / PROJET / ENDROIT

ALEXANDER COMMUNITY CENTRE EXPANSION

960 Silver Street
OTTAWA, ONTARIO

DRAWING / DESSIN

SITE REMOVALS PLAN

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ BUILDING NUMBER / NUMÉRO DU BÂTIMENT

SHEET NO. / FEUILLE No.
C.00

CITY PROJECT NO. / NUMÉRO DE PROJET	CONS_PROJECT NO. / NUMÉRO DE PROJET
CF001822	25-1170A

D07-12-26-0038

PLAN #19509

DWG NAME: J:\1-MULTIDISCIPLINE\2025\25-1170A - HOBIN - ALEXANDER COMMUNITY CENTRE EXPANSION\05 DRAWINGS\1 ONGOING\25_1170A_ALEXANDER CC EXPANSION ISSUED FOR SPC R2.1 OCTOBER 15 2026.DWG LAYOUT: C0_SITE REMOVAL PLAN SAVED ON 2026-10-20

LEGEND

- PROPERTY LINE
- NEW BUILDING
- DEPRESSED CURB
- BREAK OF SLOPE - NEW
- SAN — EXISTING SANITARY SEWER
- STM — EXISTING STORM SEWER
- W — EXISTING WATERMAIN
- EXISTING FENCE
- NEW STORM SEWER
- NEW WATERMAIN
- NEW PROPOSED SWALE
- NEW PERIMETER FOUNDATION DRAINAGE
- NEW LIGHT DUTY ASPHALT AS PER DETAIL 1 / C3
- NEW HEAVY DUTY ASPHALT AS PER DETAIL 2 / C3
- NEW CONCRETE PATHWAY
- MILLING & OVERLAY 50mm THICK HEAVY DUTY ASPHALT AS PER DETAIL 3 / C3
- NEW PRECAST PAVERS (SEE LANDSCAPE)
- NEW ASPHALT PATHWAY AS PER DETAIL SC20
- 100mm TOPSOIL AND SOD
- HIGH LOAD RIGID INSULATION AS PER CITY DETAIL S35

LEGEND CONTINUED

- NEW CONCRETE CURB
- EXISTING CONCRETE CURB
- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING LIGHT STANDARD
- NEW CATCHBASIN
- NEW STORM MANHOLE / CATCHBASIN MANHOLE
- NEW REAR YARD CATCH BASIN
- NEW FIRE HYDRANT
- NEW WATER VALVE
- NEW INLET CONTROL DEVICE
- RD — NEW ROOF DRAIN
- SC — NEW SCUPPER AT 150mm ABOVE ROOF DRAIN LEVEL
- SEWER FLOW DIRECTION
- BUILDING ENTRANCE
- SEE SHEET NUMBER "C3"

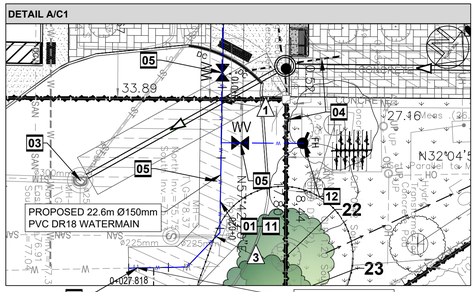
LEGEND CONTINUED

- EXISTING TREES
- NEW TREES REFER TO LANDSCAPE
- NEW MULCH
- WM — WATERMETER / REMOTE READOUT

GENERAL NOTES

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7. FOR EXACT LOCATIONS AND NUMBERS OF ROOF DRAINS AND SCUPPERS, REFER TO MECHANICAL, STRUCTURE AND ARCHITECTURAL DRAWINGS.

DETAIL A/C1



A / C1 DETAIL
Scale: N.T.S.

APPROVED
By Ingrid Lu at 7:37 am, Oct 21, 2026

INGRID LU
PLANNER 1
PLANNING, DEVELOPMENT AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA

DRAWING NOTES

01 SUPPLY AND INSTALL NEW 150mm Ø PVC DR18 WATER MAIN SERVICE, MINIMUM 2.4m COVER, OTHERWISE PROVIDE HL40 THERMAL INSULATION IN ACCORDANCE WITH CITY OF OTTAWA DETAIL W22 COORDINATE NEW WATER SERVICE CONNECTION WITH MECHANICAL PLANS.THRUST BLOCKS AND MECHANICAL RESTRAINTS SHALL BE AS PER CITY OF OTTAWA DETAILS W25.3, W25.4, W25.5, AND W25.6.

CONTRACTOR SHALL BE RESPONSIBLE FOR COMMUNICATING,COORDINATING, OBTAINING AND PAYING FOR ALL REQUIRED PERMITS NOT LIMITED TO THE FOLLOWING:

- WITH CITY OF OTTAWA FOR A WATER PERMIT,NEW WATER SERVICE CONNECTION, FIRE HYDRANT ON SITE,CONNECTION TO PROPOSED BUILDING, INSPECTION,DISINFECTION CHLORINATION, TESTING, WATER METERING AND ALL REQUIREMENTS FOR A COMPLETE SYSTEM COMMISSIONING AS PER MUNICIPAL REQUIREMENTS.
- WITH CITY OF OTTAWA FOR A ROAD CUT PERMIT.
- WITH CITY OF OTTAWA FOR UTILITY LOCATES, EXCAVATION,
- SUPPORTING UTILITIES DURING CONSTRUCTION IF REQUIRED, INSPECTION,AND BACKFILLING.

02 CONNECT TO EXISTING WATERMAIN AT APPROX. OBVERT 75.82, REMOVE PORTION OF EXISTING WATERMAIN AS NECESSARY TO FACILITATE NEW WATERMAIN INSTALLATION. CONNECTION TO EXISTING MUNICIPAL WATERMAIN TO BE COMPLETED BY CITY OF OTTAWA FORCES. EXCAVATION, BACKFILL AND RE-INSTATEMENT BY CONTRACTOR. CONTRACTOR TO CONFIRM EXISTING WATERMAIN OBVERT PRIOR TO CONSTRUCTION AND ADVISE OF ANY DISCREPANCY.

03 EXISTING 1200mm DIAMETER STORM MANHOLE. EXISTING 300mm INVERT SOUTH = 76.92, EXISTING 150mm INVERT WEST = 77.36. CONTRACTOR TO CONFIRM INVERTS PRIOR TO CONSTRUCTION AND ADVISE OF ANY DISCREPANCY. BREAK INTO EXISTING MANHOLE TO PROVIDE CONNECTION OF NEW 300mm STORM SEWER AT INVERT NORTH=76.95. PARGE AND PROVIDE WATER TIGHT CONNECTION.

04 INSTALL FOUR WAY 3.0m LONG 150mm Ø PERFORATED SUBDRAIN WRAPPED IN GEOTEXTILE SOCK EXTENDING FROM CB/CBMH AT PAVEMENT SUBGRADE LEVEL. PROVIDE WATERTIGHT CONNECTION (TYP).

05 SUPPLY AND INSTALL NEW 150mm WATER VALVE. VALVEBOX ASSEMBLY AS PER CITY OF OTTAWA STANDARD DETAIL DRAWING W24 AND W50.

06 SUPPLY AND INSTALL WATTS ROOF DRAIN CONTROLS TO BE INSTALLED ON ROOF DRAINS. SPECIFIC WIR SETTINGS IN "1/4 OPEN" POSITION. MAXIMUM DISCHARGE 5.90 l/s TOTAL. MAXIMUM ROOF PONDING DEPTH 120mm. 100 YEAR PONDING VOLUME = 49.6m³.

07 SUPPLY AND INSTALL NEW INLET CONTROL DEVICE FLOW REGULATOR AT MANHOLE, CB-1 OUTLET. MAXIMUM DISCHARGE 11.40 l/s AT 0.61m HEAD AND ORIFICE DIAMETER AT 83mm.

08 PROVIDE NEW 100mm PERIMETER FOUNDATION DRAINAGE WITH FILTER SOCK AROUND PERIMETER OF NEW ADDITION. INVERT AT 77.00 AT USF ELEVATION.

09 INSTALL NEW REAR YARD CATCH BASIN AS PER CITY OF OTTAWA DETAIL S30.

10 EXISTING SANITARY MANHOLE TO BE PROTECTED DURING CONSTRUCTION.

11 ALL WATERMAIN SHALL BE PROVIDED WITH TRACER WIRE AS PER CITY OF OTTAWA STANDARD DETAILS AND SPECIFICATIONS.

12 NEW FIRE HYDRANT AS PER CITY OF OTTAWA W19. CONTRACTOR IS RESPONSIBLE TO PROVIDE FIRE HYDRANT TESTING AND PAINTING OF CAP AS PER MUNICIPAL STANDARD. INSTALL VALVE ON HYDRANT LEAD PER CITY DETAIL W24 & W50.

13 CONNECT PERIMETER FOUNDATION DRAINAGE TO SUMP PIT. REFER TO MECHANICAL DRAWINGS.

14 EXISTING CATCHBASIN TO BE PROTECTED DURING CONSTRUCTION.

15 WATER SERVICE ENTRY TO BUILDING SERVICES, TOP OF WATERMAIN AT 77.15 TO BE ABOVE EXISTING FOOTING AND SLEEVED THROUGH FOUNDATION WALL. COORDINATE WITH STRUCTURAL AND MECHANICAL DRAWINGS. INSULATE PER CITY OF OTTAWA W22 WHERE LESS THAN 2.4m COVER IS PROVIDED.

16 ROOF TOP SCUPPERS TO BE PROVIDED AT 150mm ABOVE LEVEL OF ROOF DRAINS.

17 PRESSURE REDUCING VALVE TO BE INSTALLED AS PER ONTARIO PLUMBING CODE, COORDINATE WITH MECHANICAL CONTRACTOR.

18 NEW LIGHT STANDARD, REFER TO ELECTRICAL DRAWINGS. COORDINATE INSTALLATION OF NEW LIGHT STANDARD LIGHTING CONDUITS WITH INSTALLATION OF NEW STORM SEWER. LIGHTING CONDUITS TO CROSS OVER / ABOVE STORM SEWER AS NECESSARY.

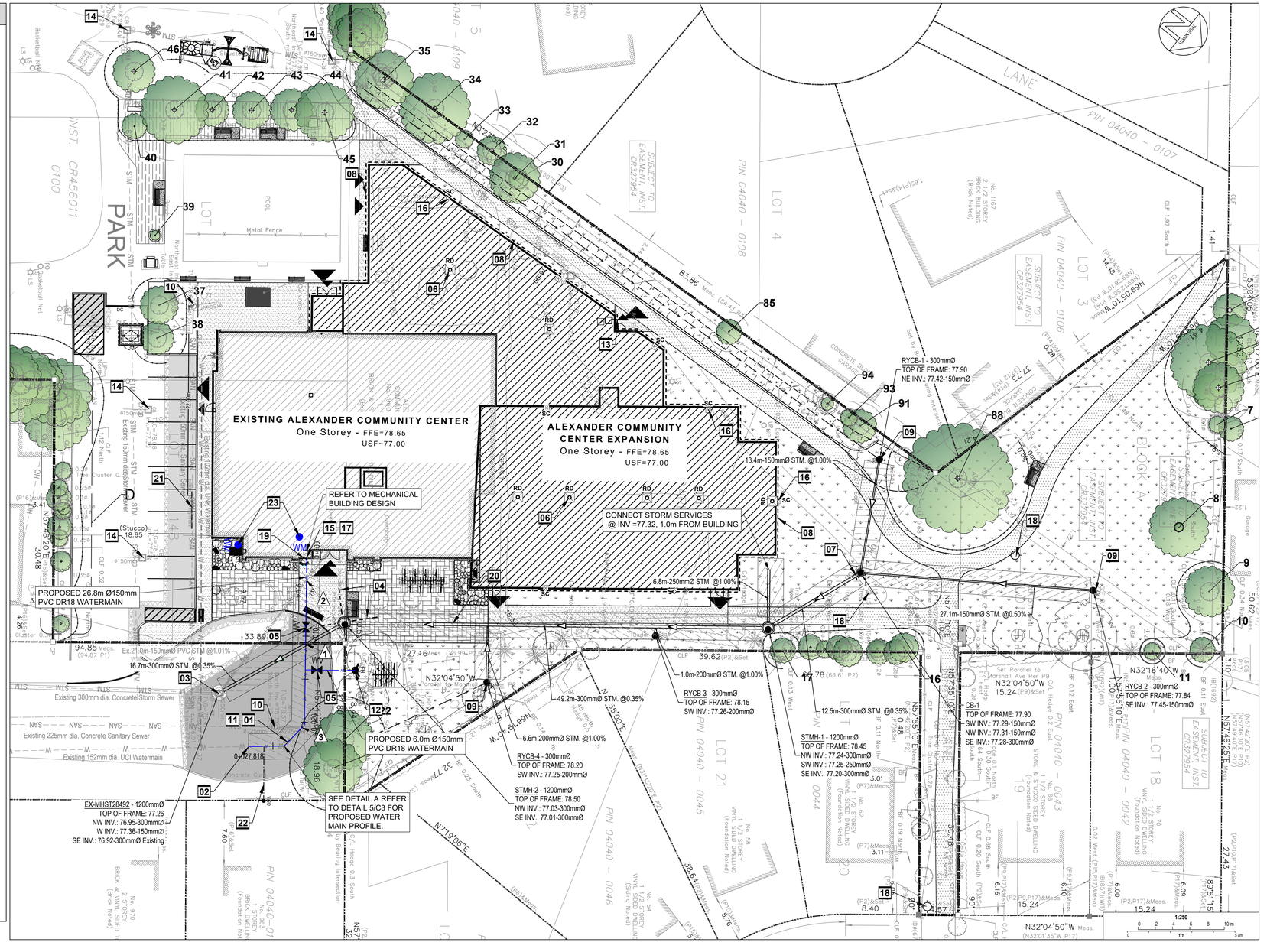
19 FIRE DEPARTMENT CONNECTION, REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DETAILS.

20 APPROXIMATE LOCATION OF EXISTING BUILDING SECONDARY DUCT BANK. APPROXIMATE BOTTOM OF DUCT ELEVATION AT 77.43. CONTRACTOR TO HYDROVAC AND DAYLIGHT TO CONFIRM EXISTING SECONDARY DUCT ELEVATION PRIOR TO STORM SEWER CONSTRUCTION, AND ADVISE OF ANY DISCREPANCY WITH NEW STORM SEWER. PROVIDE HYDROVAC AND TEMPORARY UTILITY SUPPORT FOR EXCAVATION OF NEW STORM SEWER.

21 APPROXIMATE LOCATION OF OFFSET JOINT IN EXISTING 150mm DIA. ASBESTOS-CEMENT SANITARY SEWER, ±22.0m FROM EXISTING SANITARY MANHOLE AS MEASURED BY CCTV. CONTRACTOR TO EXCAVATE AND CONFIRM LOCATION AND CONDITION OF OFFSET JOINT IN FIELD. REMOVE EXISTING PIPE AS REQUIRED AND INSTALL NEW 150mm DIA. PVC DR-35 SANITARY SEWER TO CORRECT OFFSET JOINT AND MAINTAIN EXISTING SEWER ALIGNMENT AND GRADE. INSTALL PIPE BEDDING AND COVER IN ACCORDANCE WITH STANDARD TRENCH DETAIL 4/C3 AND CITY OF OTTAWA DETAIL S6. PROVIDE APPROVED WATERTIGHT TRANSITION COUPLINGS BETWEEN EXISTING ASBESTOS-CEMENT PIPE AND NEW PVC PIPE. HANDLING, REMOVAL AND DISPOSAL OF ASBESTOS-CEMENT PIPE SHALL BE IN ACCORDANCE WITH APPLICABLE REGULATIONS. CONTRACTOR TO MAINTAIN EXISTING SANITARY SEWER SERVICE DURING CONSTRUCTION AND PROVIDE TEMPORARY BYPASS PUMPING, IF REQUIRED. PROVIDE POST-CONSTRUCTION CCTV INSPECTION OF REPAIRED SANITARY SEWER.

22 CONFIRM LOCATION OF EXISTING WATER SERVICE FOR 963 SILVER STREET. CONTRACTOR TO CARRY PROVISIONAL ITEM IN TENDER FOR NEW WATER SERVICE CONNECTION TO PROPERTY LINE, COMPLETE WITH CURB STOP. IF EXISTING SERVICE CONNECTION NEEDS TO BE ALTERED TO FACILITATE NEW WATERMAIN WORK. WATER SERVICE CONNECTION TO BE PROVIDED PER CITY OF OTTAWA DETAIL W26, AND CONFORM TO APPROVED CITY OF OTTAWA SERVICE TUBING. MATCH EXISTING SERVICE SIZE.

23 WATERMETER WITHIN INTERNAL BUILDING PLUMBING, AND REMOTE WATERMETER READOUT SHOWN SCHEMATICALLY. REFER TO MECHANICAL FOR SCHEMATIC DETAILS



6	ISSUED FOR SITE PLAN CONTROL REV-2.1	26/10/15	R.I / Z.B.
5	ISSUED FOR TENDER	26/08/21	R.I / Z.B.
4	ISSUED FOR SITE PLAN CONTROL REV-2	26/08/20	R.I / Z.B.
3	ISSUED FOR 99% REVIEW / PERMIT	26/05/26	R.I / Z.B.
2	ISSUED FOR 66%	26/04/17	R.I / Z.B.
1	ISSUED FOR SITE PLAN CONTROL REV-1	26/04/14	R.I / Z.B.
NUMBER/ NUMÉRO	MILESTONE / FAIT SAILLANT	DATE: (YM/D) (AM/J)	INITIALS INITIALES

DESIGNED BY / CONÇU PAR: ZACH BAUMAN
CHECKED BY / VÉRIFIÉ PAR: ALI SAMMOUR
DRAWN BY / DESSINÉ PAR: RAFAT ISMAIL
SCALE / ÉCHELLE: 1:250

1 / A1.1 DRAWING TITLE (DETAIL NUMBER / SCALE / SHEET NUMBER)

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ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL
LICENSED PROFESSIONAL ENGINEER — Z. E. BAUMAN — 100578796 — October 15, 2026 — PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL
LICENSED PROFESSIONAL ENGINEER — A. SAMMOUR — 100227665 — Oct. 15, 2026 — PROVINCE OF ONTARIO

PROJECT / LOCATION / PROJET / ENDROIT

ALEXANDER COMMUNITY CENTRE EXPANSION

960 Silver Street
OTTAWA, ONTARIO

DRAWING / DESSIN

SITE SERVICING PLAN

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ
BUILDING NUMBER / NUMÉRO DU BÂTIMENT

SHEET NO. / FEUILLE No.: **C.01**

CITY PROJECT NO. / NUMÉRO DE PROJET: CF001822
CONS_PROJECT NO. / NUMÉRO DE PROJET: 25-1170A

DWG NAME: J:\1-REALTIDINGS\ARCHIVES\1170A - HDBK\ - ALEXANDER COMMUNITY CENTRE EXPANSION\2 DRAWINGS\1 ENGINEERING\1170A_ALEXANDER CS EXPANSION-HOUSED FOR DPC.DWG | OCTOBER 15 2026 09:05 | LAYOUT: C1_SITE SERVICING PLAN SAVED ON 2026-10-15

PLAN #19509

LEGEND

- PROPERTY LINE
- NEW BUILDING
- DEPRESSED CURB
- BREAK OF SLOPE - NEW
- NEW PROPOSED SWALE
- LIMIT OF HIGH POINT
- NEW LIGHT DUTY ASPHALT AS PER DETAIL 1 / C3
- NEW HEAVY DUTY ASPHALT AS PER DETAIL 2 / C3
- NEW CONCRETE PATHWAY
- MILLING & OVERLAY 50mm THICK HEAVY DUTY ASPHALT AS PER DETAIL 3 / C3
- PRECAST PAVERS (SEE LANDSCAPE)
- NEW ASPHALT PATHWAY AS PER DETAIL SC20
- 100mm TOP SOIL AND SOD
- EXISTING CONCRETE CURB
- NEW CONCRETE CURB
- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT

LEGEND CONTINUED

- EXISTING WATER VALVE
- EXISTING UTILITY POLE
- EXISTING LIGHT STANDARD
- NEW CATCHBASIN
- NEW STORM MANHOLE / CATCHBASIN MANHOLE
- NEW REAR YARD CATCH BASIN
- NEW FIRE HYDRANT
- NEW WATER VALVE
- NEW INLET CONTROL DEVICE
- NEW ROOF DRAIN
- NEW SCUPPER AT 150mm ABOVE ROOF DRAIN LEVEL
- SEWER FLOW DIRECTION
- BUILDING ENTRANCE
- PROPOSED ELEVATION & EXISTING NATURAL GRADE
- PROPOSED ELEVATION
- PROPOSED BOTTOM OF CURB ELEVATION
- PROPOSED TOP OF CURB ELEVATION
- PROPOSED SLOPE
- OVERLAND FLOW ROUTE

LEGEND CONTINUED

- EXISTING TREES REFER TO LANDSCAPE
- NEW TREES REFER TO LANDSCAPE
- NEW MULCH

GEOTECHNICAL NOTES

1. A GEOTECHNICAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO SHALL INSPECT ALL SUBGRADE SURFACES FOR FOOTING AND TRENCHES, PIPE BEDDING AND PAVEMENT STRUCTURES PRIOR TO CONSTRUCTION.
2. IT IS STRICTLY RECOMMENDED TO REFER GEOTECHNICAL INVESTIGATION REPORT : PROPOSED ADDITION TO ALEXANDER COMMUNITY CENTRE 960 SILVER STREET OTTAWA, ONTARIO BY EXP SERVICES INC..
3. IT IS ANTICIPATED THAT THE MAJORITY OF THE MATERIAL REQUIRED FOR BACKFILLING PURPOSES AND FOR TRENCH BACKFILL WOULD HAVE TO BE IMPORTED AND SHOULD CONFORM TO THE RECOMMENDATION STATED IN THE GEOTECHNICAL REPORT.
4. CONTRACTOR BIDDING ON THIS PROJECT MUST REVIEW AVAILABLE DATA AND DECIDE ON THEIR OWN THE BEST METHOD FOR THE EXCAVATION OF THE BEDROCK IF DEEMED REQUIRED.
5. IT IS RECOMMENDED THAT THE BEDDING FOR THE UNDERGROUND SERVICES INCLUDING MATERIAL SPECIFICATIONS, THICKNESS OF COVER MATERIAL AND COMPACTION REQUIREMENTS CONFORM TO MUNICIPAL REQUIREMENTS AND/OR ONTARIO PROVINCIAL STANDARD SPECIFICATION AND DRAWINGS (OPSS AND OPSD).
6. IT IS RECOMMENDED THAT THE PIPE BEDDING BE 300mm THICK AND CONSIST OF OPSS GRANULAR A. THE BEDDING MATERIAL SHOULD BE PLACED ALONG THE SIDES AND ON TOP OF THE PIPE TO PROVIDE A MINIMUM COVER OF 300mm. THE BEDDING SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF THE SPMDD.
7. THE BEDDING THICKNESS MAY BE FURTHER INCREASED IN AREAS WHERE THE SUBGRADE BECOMES DISTURBED.
8. SINCE PAVED SURFACES WILL BE LOCATED OVER SERVICE TRENCHES, IT IS RECOMMENDED THAT THE TRENCH BACKFILL MATERIAL WITHIN THE FROST ZONE (UP TO 1.8 M BELOW FINISHED GRADE), SHOULD MATCH THE EXISTING MATERIAL IN THE ROADWAY TO MINIMIZE DIFFERENTIAL FROST HEAVING OF THE SUBGRADE. THE TRENCH BACKFILL SHOULD BE PLACED IN 300mm THICK LIFTS AND EACH LIFT SHOULD BE COMPACTED TO 95 PERCENT SPMDD.
9. THE BEDROCK/AUGER REFUSAL DEPTHS ACROSS THE SITE WERE VARIABLE.SHALLOW BEDROCK AND LARGE BOULDERS SHOULD BE EXPECTED DURING THE INSTALLATION OF ANY SERVICES AT THE SITE AND CONTRACTORS BIDDING ON THIS WORK SHOULD ANTICIPATE THESE CONDITIONS.

GEOTECHNICAL NOTES CONTINUED

10. IT IS ANTICIPATED THAT THE MAJORITY OF THE MATERIAL REQUIRED FOR TRENCH BACKFILL AND SUBGRADE FILL IN PARKING AREA AND ACCESS ROADS WOULD HAVE TO BE IMPORTED AND SHOULD CONFORM TO OPSS 1010 SELECT SUBGRADE MATERIAL (SSM) - COMPACTED TO 95 PERCENT OF THE SPMDD AND THE UPPER 300 MM OF THE SUBGRADE FILL MUST BE COMPACTED TO 98% SPMDD.
11. AS PART OF THE SUBGRADE PREPARATION, THE PROPOSED PARKING AREA, PAVED AREA AND ACCESS ROADS SHOULD BE STRIPPED OF TOPSOIL AND OTHER OBVIOUSLY UNSUITABLE MATERIAL. THE SUBGRADE SHOULD BE PROPERLY SHAPED, CROWNED, THEN PROOF ROLLED WITH A HEAVY VIBRATORY ROLLER IN THE FULL-TIME PRESENCE OF A REPRESENTATIVE OF THE GEOTECHNICAL ENGINEER. ANY SOFT OR SPONGY SUBGRADE AREAS DETECTED SHOULD BE SUB EXCAVATED AND PROPERLY REPLACED WITH SUITABLE APPROVED BACKFILL COMPACTED TO 95 PERCENT SPMDD (ASTM D698-12E2).
12. THE SUBDRAINS ILLUSTRATED ON PLANS ARE SCHEMATIC. FULL SCHEME OF SUBDRAINS SHOULD BE INSTALLED ON BOTH SIDES OF THE ACCESS ROAD(S). SUBDRAINS MUST BE INSTALLED IN THE PROPOSED PARKING AREA AT LOW POINTS AND SHOULD BE CONTINUOUS BETWEEN CATCHBASINS TO INTERCEPT EXCESS SURFACE AND SUBSURFACE MOISTURE AND TO PREVENT SUBGRADE SOFTENING. THIS WILL ENSURE NO WATER COLLECTS IN THE GRANULAR COURSE, WHICH COULD RESULT IN PAVEMENT FAILURE DURING THE SPRING THAW. THE LOCATION AND EXTENT OF SUBDRAINS REQUIRED WITHIN THE PAVED AREAS SHOULD BE REVIEWED BY THE GEOTECHNICAL ENGINEER IN CONJUNCTION WITH THE PROPOSED SITE GRADING.
13. TO MINIMIZE THE PROBLEMS OF DIFFERENTIAL MOVEMENT BETWEEN THE PAVEMENT AND CATCHBASINS/MANHOLE DUE TO FROST ACTION, THE BACKFILL AROUND THE STRUCTURES SHOULD CONSIST OF FREE-DRAINING GRANULAR PREFERABLY CONFORMING TO OPSS GRANULAR B TYPE II MATERIAL. WEEP HOLES SHOULD BE PROVIDED IN THE CATCHBASINS/MANHOLES TO FACILITATE DRAINAGE OF ANY WATER THAT MAY ACCUMULATE IN THE GRANULAR FILL.
14. THE MOST SEVERE LOADING CONDITIONS ON LIGHT-DUTY PAVEMENT AREAS AND THE SUBGRADE MAY OCCUR DURING CONSTRUCTION. CONSEQUENTLY, SPECIAL PROVISIONS SUCH AS RESTRICTED LANES, HALF-LOADS DURING PAVING, TEMPORARY CONSTRUCTION ROADWAYS, ETC., MAY BE REQUIRED, ESPECIALLY IF CONSTRUCTION IS CARRIED OUT DURING UNFAVORABLE WEATHER.
15. THE FINISHED PAVEMENT SURFACE SHOULD BE FREE OF DEPRESSIONS AND SHOULD BE SLOPED (PREFERABLY AT A MINIMUM CROSS FALL OF 2 PERCENT) TO PROVIDE EFFECTIVE SURFACE DRAINAGE TOWARDS CATCH BASINS. SURFACE WATER SHOULD NOT BE ALLOWED TO POND ADJACENT TO THE OUTSIDE EDGES OF PAVED AREAS.

GEOTECHNICAL NOTES CONTINUED

16. RELATIVELY WEAKER SUBGRADE MAY DEVELOP OVER SERVICE TRENCHES AT SUBGRADE LEVEL. THESE AREAS MAY REQUIRE THE USE OF THICKER/COARSER SUB-BASE MATERIAL AND THE USE OF A GEOTEXTILE AT THE SUBGRADE LEVEL. IF THIS IS THE CASE, IT IS RECOMMENDED THAT ADDITIONAL 150 MM THICK GRANULAR SUB-BASE, OPSS GRANULAR B TYPE II, SHOULD BE PROVIDED IN THESE AREAS, IN ADDITION TO THE USE OF A GEOTEXTILE AT THE SUBGRADE LEVEL.
17. THE GRANULAR MATERIALS USED FOR PAVEMENT CONSTRUCTION SHOULD CONFORM TO ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS 1010) FOR GRANULAR A AND GRANULAR B TYPE II AND SHOULD BE COMPACTED TO 100 PERCENT OF THE SPMDD.
18. THE ASPHALTIC CONCRETE USED, AND ITS PLACEMENT SHOULD MEET OPSS 1150 OR 1151 REQUIREMENTS. IT SHOULD BE COMPACTED FROM 92 PERCENT TO 97 PERCENT OF THE MRD (ASTM D2041). ASPHALT PLACEMENT SHOULD BE IN ACCORDANCE WITH OPSS 310 AND OPSS 313.
19. ALL EARTHWORK ACTIVITIES FROM PLACEMENT AND COMPACTION OF FILL IN THE SERVICE TRENCHES TO SUBGRADE PREPARATION, PLACEMENT AND COMPACTION OF GRANULAR MATERIALS AND ASPHALTIC CONCRETE SHOULD BE INSPECTED BY QUALIFIED GEOTECHNICIANS TO ENSURE THAT CONSTRUCTION OF THE SEWERS AND PAVEMENT PROCEEDS ACCORDING TO THE SPECIFICATIONS.
20. STRINGENT CONSTRUCTION CONTROL PROCEDURES SHOULD BE MAINTAINED TO ENSURE THAT UNIFORM SUBGRADE MOISTURE AND DENSITY CONDITIONS ARE ACHIEVED.
21. SHOULD SURFACE AND SUBSURFACE WATER SEEPAGE OCCUR INTO THE EXCAVATIONS COLLECT ANY WATER ENTERING THE EXCAVATIONS AND REMOVE IT BY PUMPING FROM SUMP.
22. IF THE BACKFILL IN THE SERVICE TRENCHES WILL CONSIST OF GRANULAR FILL, CLAY SEALS SHOULD BE INSTALLED IN THE SERVICE TRENCHES AT SELECT INTERVALS (SPACING) AS PER CITY OF OTTAWA DRAWING NO. S8. THE SEALS SHOULD BE 1m WIDE, EXTEND OVER THE ENTIRE TRENCH WIDTH AND FROM THE BOTTOM OF THE TRENCH TO THE UNDERSIDE OF THE PAVEMENT STRUCTURE. THE CLAY SHOULD BE COMPACTED TO 95 PERCENT SPMDD. THE PURPOSE OF THE CLAY SEALS IS TO PREVENT THE PERMANENT LOWERING OF THE GROUNDWATER LEVEL. CLAY SEAL LOCATIONS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
23. IT IS RECOMMENDED THAT A GEOTEXTILE BE PLACED ON THE SURFACE OF THE SUBGRADE PRIOR OF PLACEMENT OF ANY GRANULAR SUB-BASE. THIS MUST BE ALLOWED FOR BY THE CONTRACTOR AND INSTALLED WHEN DIRECTED BY THE GEOTECHNICAL ENGINEER.
24. THE MUNICIPAL SERVICES SHOULD BE INSTALLED IN SHORT OPEN TRENCH SECTIONS THAT ARE EXCAVATED AND BACKFILLED THE SAME DAY.

GENERAL NOTES

1. DESIGN AND CONSTRUCTION IS TO BE IN ACCORDANCE WITH MOST RECENT ONTARIO BUILDING CODE.
2. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL DIMENSIONS WITH RESPECT TO SITE CONDITIONS AND ALL MATERIALS TO THE PROJECT. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL MATERIAL RELEVANT TO THE PROJECT.
4. ADDITIONAL DRAWINGS MAY BE ISSUED FOR CLARIFICATION TO ASSIST PROPER EXECUTION OF WORK. SUCH DRAWINGS WILL HAVE THE SAME MEANING AND INTENT AS IF THEY WERE INCLUDED WITH THE CONTRACT DOCUMENTS.
5. CONTRACTOR MUST COMPLY WITH LOCAL BY-LAWS, ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION. IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
6. CONTRACTOR RESPONSIBLE FOR OBTAINING ALL REQUIRED UTILITY LOCATES, DAYLIGHTING, INSPECTIONS, PERMITS, AND APPROVALS, INCLUDING ALL ASSOCIATED COSTS. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND BASED ON BEST AVAILABLE INFORMATION.
7. IN THE EVENT THAT EXCAVATION IS REQUIRED ON THE CITY OF OTTAWA ROW OR ADJACENT PROPERTY, CONTRACTOR IS RESPONSIBLE TO ENSURE ADDITIONAL PERMIT AND/OR PERMISSION

DRAWING NOTES

01 MATCH EXISTING GRADES AT PROPERTY LINE AND LIMITS OF WORK.

02 ANY DISTURBED AREA WITHIN THE RIGHT-OF-WAY SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE CITY OF OTTAWA.

03 TOP OF BANK. PROVIDE MAXIMUM 4:1 SLOPE TO TIE INTO EXISTING / PROPOSED GRADES.

04 EXISTING LIGHT STANDARD TO BE PROTECTED DURING CONSTRUCTION.

05 CONSTRUCT SIDEWALK AS PER CITY OF OTTAWA STANDARD DETAIL SC2 & SC5. PROVIDE MAXIMUM SLOPE OF 2.0% .INSTALL REINFORCING MESH 150X150mm MW9.1XMW9.1 THROUGHOUT NEW SIDEWALK. STOP WIRE MESH AT EXPANSION JOINTS.

06 CONSTRUCT CONCRETE BARRIER / DEPRESSED CURB AS PER CITY OF OTTAWA STANDARD DETAIL SC1.1.

07 SAW CUT INTO EXISTING ASPHALT AS PER DETAIL 3/C3. MATCH EXISTING PAVEMENT AND GRANULAR STRUCTURE.

08 NEW ACCESSIBLE PARKING ACCESS RAMP. PROVIDE MAXIMUM 8% SLOPE.

09 TWSI AS PER CITY STANDARDS.

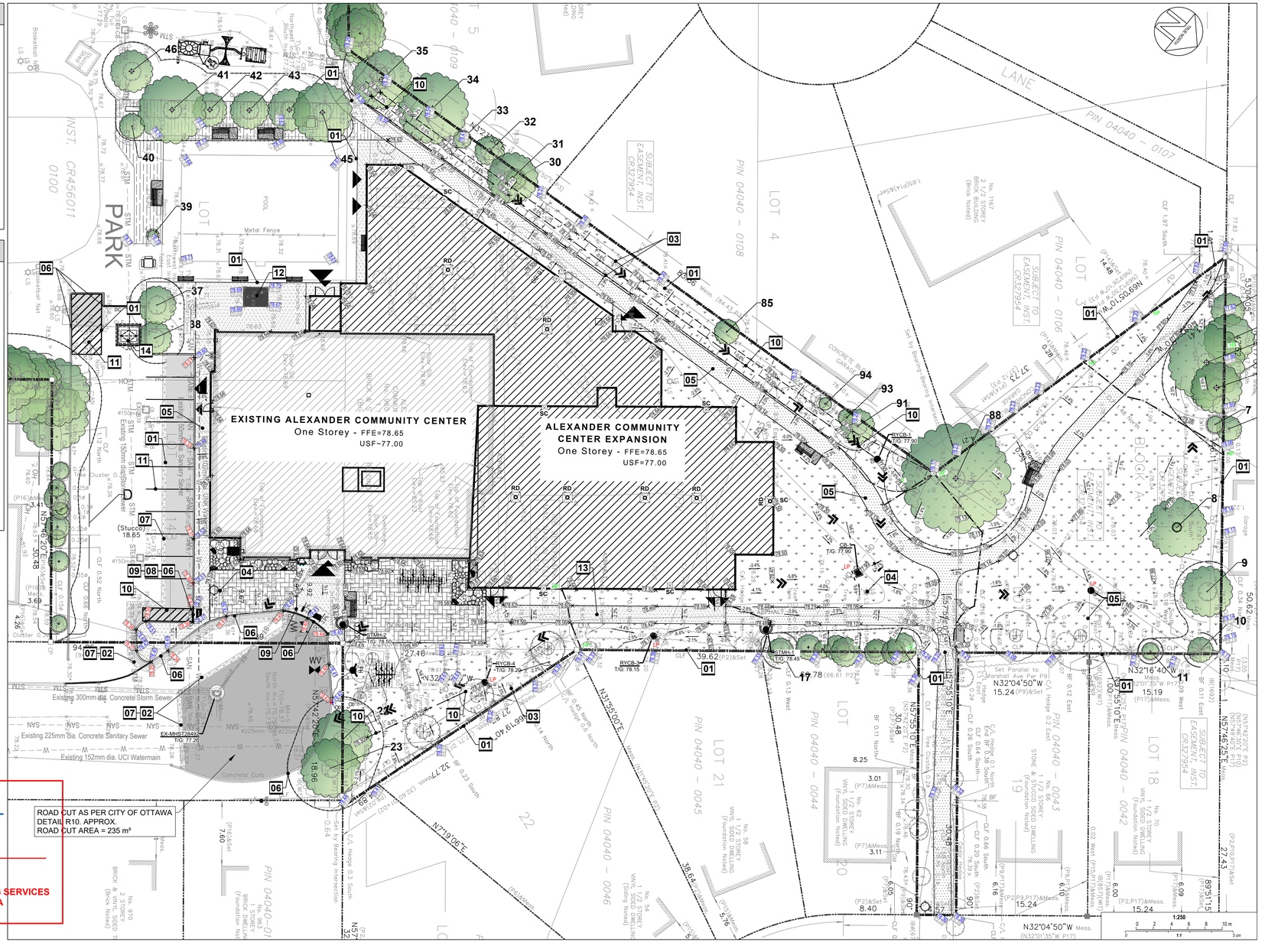
10 CONSTRUCT NEW SWALE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL DRAWING S29.

11 NEW TRAFFIC MARKING PAINT, REFER TO ARCHITECUTRAL.

12 EXISTING MANHOLE STRUCTURE TO REMAIN.

13 CONSTRUCT SIDEWALK AS PER CITY OF OTTAWA DETAIL SC4.

14 PROPOSED GARBAGE ENCLOSURE PAD, REFER TO ARCHITECTURAL AND STRUCTURAL FOR DETAILS. PROTECT EXISTING STORM SEWER DURING CONSTRUCTION AND EXCAVATION.



APPROVED
By Ingrid Lu at 7:38 am, Oct 21, 2026

INGRID LU
PLANNER 1
PLANNING, DEVELOPMENT AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA

INFRASTRUCTURE SERVICES
DESIGN AND CONSTRUCTION

SERVICES D'INFRASTRUCTURE
DIRECTION DE CONCEPTION ET DE CONSTRUCTION

FOR / POUR
Client - Department
Infrastructure and Water Services Department
Design & Construction

6	ISSUED FOR SITE PLAN CONTROL REV-2.1	26/10/15	R.I / Z.B.
5	ISSUED FOR TENDER	26/08/21	R.I / Z.B.
4	ISSUED FOR SITE PLAN CONTROL REV-2	26/08/20	R.I / Z.B.
3	ISSUED FOR 99% REVIEW / PERMIT	26/05/26	R.I / Z.B.
2	ISSUED FOR 66%	26/04/17	R.I / Z.B.
1	ISSUED FOR SITE PLAN CONTROL REV-1	26/04/14	R.I / Z.B.
NUMBER/ NUMERO	MILESTONE / FAIT SAILLANT	DATE: (Y/M/D) (AN/J)	INITIALS INITIALES

DESIGNED BY / CONCU PAR: ZACH BAUMAN
CHECKED BY / VERIFIÉ PAR: ALI SAMMOUR
DRAWN BY / DESSINÉ PAR: RAFAT ISMAIL
SCALE / ÉCHELLE: 1:250

DETAIL NUMBER 1 / A1.1 SHEET NUMBER — DRAWING TITLE, SCALE:

THIS DRAWING IS THE PROPERTY OF THE CITY OF OTTAWA AND ALL COPYRIGHT IS RESERVED. DIMENSIONS ON DRAWING ARE FOR ESTIMATING PURPOSES ONLY. IT IS THE RESPOSIBILITY OF EACH CONTRACTOR AND SUB-CONTRACTOR OR CONSULTANT TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE. NOTIFY OWNER OF ANY ERRORS OR OMISSIONS PRIOR TO COMMENCING THE WORK. DO NOT SCALE THE DRAWINGS.

CE DESSIN CONSTITUE LA PROPRIÉTÉ DE LA VILLE D'OTTAWA ET TOUT DROIT D'AUTEUR EST RÉSERVÉ. LES DIMENSIONS UTILISÉES LE SONT À DES FINS D'ESTIMATION SEULEMENT. IL INCOMBE À CHAQUE ENTREPRENEUR, SOUS-CONTRACTANT OU CONSULTANT DE VÉRIFIER TOUTES LES DIMENSIONS ET LES CONDITIONS SUR LE CHANTIER. VEUILLEZ INFORMER LE PROPRIÉTAIRE DE TOUTE ERREUR OU OMISSION AVANT D'ENTAMER LES TRAVAUX. NE DRESSEZ PAS LES PLANS À L'ÉCHELLE

ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL
LICENSED PROFESSIONAL ENGINEER — Z. E. BAUMAN — 100578796 — October 15, 2026 — PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL
LICENSED PROFESSIONAL ENGINEER — A. SAMMOUR — 100227665 — Oct. 15, 2026 — PROVINCE OF ONTARIO

PROJECT / LOCATION / PROJET / ENDROIT

ALEXANDER COMMUNITY CENTRE EXPANSION

960 Silver Street
OTTAWA, ONTARIO

DRAWING / DESSIN

SITE GRADING PLAN

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ
BUILDING NUMBER / NUMÉRO DU BÂTIMENT

SHEET NO. / FEUILLE No.: **C.02**

CITY PROJECT NO. / NUMÉRO DE PROJET: CF001822
CONS_PROJECT NO. / NUMÉRO DE PROJET: 25-1170A

1:250 — 0 2 4 6 8 10 m — 1:1 — 5 cm

PLAN #19509

D07-12-26-0038

DWG NAME: J:\1-NEL\1250\25-1170\A_HDBK - ALEXANDER COMMUNITY CENTRE EXPANSION\DRAWING FILES\CONSTRUCTION\25-1170_ALEXANDER CC EXPANSION 1250 FOR SPC 100 | OCTOBER 15 2026 (SAT) 09:07:12 | SITE GRADING PLAN SHEET C2 | SITE GRADING PLAN SHEET C2

General Notes

1. DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL AND LANDSCAPE DRAWINGS.
2. ALL SERVICES, MATERIALS, CONSTRUCTION METHODS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND REGULATIONS OF THE: CITY OF OTTAWA STANDARD SPECIFICATIONS AND DRAWINGS, ONTARIO PROVINCIAL SPECIFICATION STANDARD SPECIFICATION (OPSS) AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD), UNLESS OTHERWISE SPECIFIED, TO THE SATISFACTION OF THE CITY OF OTTAWA AND THE CONSULTANT.
3. THE POSITION OF EXISTING POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND ABOVEGROUND UTILITIES, STRUCTURES AND APPURTENANCES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWING, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SATISFY HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES, AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM DURING THE COURSE OF CONSTRUCTION. ANY RELOCATION OF EXISTING UTILITIES REQUIRED BY THE DEVELOPMENT OF SUBJECT LANDS IS TO BE UNDERTAKEN AT CONTRACTOR'S EXPENSE.
4. THE CONTRACTOR MUST NOTIFY ALL EXISTING UTILITY COMPANY OFFICIALS FIVE (5) BUSINESS DAYS PRIOR TO START OF CONSTRUCTION AND HAVE ALL EXISTING UTILITIES AND SERVICES LOCATED IN THE FIELD OR EXPOSED PRIOR TO THE START OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO POWER, COMMUNICATION AND GAS LINES.
5. ALL TRENCHING AND EXCAVATIONS TO BE IN ACCORDANCE WITH THE LATEST REVISIONS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS AND AS PER THE RECOMMENDATIONS INCLUDED IN THE GEOTECHNICAL REPORT.
6. REFER TO ARCHITECTS PLANS FOR BUILDING DIMENSIONS, LAYOUT AND REMOVALS. REFER TO LANDSCAPE PLAN FOR LANDSCAPED DETAILS AND OTHER RELEVANT INFORMATION. ALL INFORMATION SHALL BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7. TOPOGRAPHIC SURVEY AND PROPERTY BOUNDARY INFORMATION COMPLETED AND PROVIDED BY ANNIS, O'SULLIVAN, VOLLEBEKK LTD. JOB NO.: N-26205-26, DATED FEBRUARY 13, 2026. CONTRACTOR TO VERIFY IN THE FIELD PRIOR TO CONSTRUCTION OF ANY WORK AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
8. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. VERIFY THAT JOB BENCHMARKS HAVE NOT BEEN ALTERED OR DISTURBED.
9. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
10. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM.
11. ALL DISTURBED AREAS OUTSIDE PROPOSED GRADING LIMITS TO BE RESTORED TO ORIGINAL ELEVATIONS AND CONDITIONS UNLESS OTHERWISE SPECIFIED. ALL RESTORATION SHALL BE COMPLETED WITH THE GEOTECHNICAL REQUIREMENTS FOR BACKFILL AND COMPACTION.
12. ABUTTING PROPERTY GRADES TO BE MATCHED UNLESS OTHERWISE SHOWN.
13. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION, INCLUDING WATER PERMIT AND ROAD CUT PERMIT.
14. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
15. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. ALL EXCESS SOIL MANAGEMENT, TESTING AND DISPOSAL MUST COMPLY WITH CURRENT O.REG. 406/19. ALL ASSOCIATED COSTS ARE TO BE BORNE BY THE CONTRACTOR.
16. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK.
17. CONTRACTOR TO OBTAIN POST-CONSTRUCTION TOPOGRAPHIC SURVEY, COMPLETED BY OLS OR P.ENG CONFIRMING COMPLIANCE WITH DESIGN GRADING AND SERVICING. SURVEY IS TO INCLUDE LOCATION AND INVERTS FOR BURIED UTILITIES.
18. ABIDE BY RECOMMENDATIONS OF GEOTECHNICAL REPORT. REPORT ANY VARIATIONS IN OBSERVED CONDITIONS FROM THOSE INCLUDED IN REPORT.
19. REPORT REFERENCES;

    GEOTECHNICAL INVESTIGATION:

    PROPOSED ADDITION TO ALEXANDER COMMUNITY CENTRE

    960 SILVER STREET , OTTAWA, ONTARIO
    PREPARED BY EXP, PROJECT No; OTT-23011957-Q0
    DATED FEBRUARY 27,2026.
20. PROVIDE CCTV INSPECTION REPORT FOR ALL SEWERS AND CATCHBASIN LEADS 200mm DIAMETER AND LARGER. REPEAT CCTV INSPECTION FOLLOWING RECTIFICATION OF ANY DEFICIENCIES.

Excess Soil And O.REG. 406/19

1. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, FOUNDATION, PAVED AREAS, SUBDRAINS AND SERVICE TRENCHES. EXCESS MATERIAL REMOVAL FROM SITE SHALL FOLLOW THE GEOTECHNICAL AND ENVIRONMENTAL ENGINEER'S RECOMMENDATION.
2. CONTRACTOR TO STOCKPILE UN-USABLE FILL TO BE REMOVED FROM SITE TO ALLOW THE GEOTECHNICAL ENGINEER IN 10 DAYS TO INSPECT THE MATERIALS AND TO PROVIDE GUIDANCE TO CONTRACTOR PRIOR TO DISPOSAL. EROSION CONTROL MEASURE ARE TO BE APPLIED TO STOCKPILE AREA. EXCESS MATERIALS SHALL BE DISPOSED AS PER THE REQUIREMENTS OF OPSS 180.
3. IF CONTAMINATION HAZARDOUS MATERIAL IS SUSPECTED DURING CONSTRUCTION (E.G. STAINING, ODOURS, ETC.), THE CONTRACTOR MUST NOTIFY THE PROPERTY OWNER(S), PROJECT LEADER, PRIME CONSULTANT, AND GEOTECHNICAL ENGINEER, FOR DIRECTION ON HOW TO PROCEED ACCORDING TO FEDERAL AND PROVINCIAL LEGISLATION. THE GEOTECHNICAL ENGINEER UNDER THE GUIDANCE OF A QUALIFIED PERSON, MUST DETERMINE IF ADDITIONAL SAMPLING (INCLUDING LEACHATE TESTING) IS REQUIRED TO MEET THE MINIMUM SAMPLING PROVISIONS UNDER O.REG. 406/19 (AS AMENDED).
4. EXCESS SOIL MANAGEMENT, TESTING AND DISPOSAL MUST COMPLY WITH O.REG. 406/19.
5. ALL SOIL HAULAGE RECORDS SHALL BE KEPT AND PROVIDED BY THE CONTRACTOR AND SUBMITTED TO THE CONSULTANT .
6. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED AT AN APPROVED DUMP SITE BY CONTRACTOR .

Parking Lot and Work in Public Rights of Way

**** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES.****

1. PRIOR TO START OF CONSTRUCTION:
   - 1.1. INSTALL SILT FENCE IN LOCATION SHOWN ON DWG C4.
   - 1.2. INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE TYPICAL DETAIL).
   - 1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
2. DURING CONSTRUCTION:
   - 2.1. MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
   - 2.2. PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STORM WATER MANAGEMENT IS IN PLACE, OTHERWISE. IMMEDIATELY INSTALL SILT FENCE WHEN THE EXISTING SITE IS DISTURBED AT THE PERIMETER.
   - 2.3. PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CB'S AS REQUIRED.
   - 2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
   - 2.5. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
   - 2.6. DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
   - 2.7. EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.
   - 2.8. DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
   - 2.9. CONTROL WIND-BLOWN DUST OFF SITE BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).
   - 2.10. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
   - 2.11. CITY OF OTTAWA ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
   - 2.12. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
   - 2.13. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
   - 2.14. TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ABUTTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
   - 2.15. ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
   - 2.16. 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.

Parking Lot and Work in Public Rights of Way

1. CONTRACTOR TO REINSTATE ROAD CUTS AS PER CITY OF OTTAWA DETAIL R10.
2. CONTRACTOR TO PREPARE SUBGRADE, INCLUDING PROOFROLLING, TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT PRIOR TO THE COMMENCEMENT OF PLACEMENT OF GRANULAR B MATERIAL.
3. FILL TO BE PLACED AND COMPACTED PER THE GEOTECHNICAL REPORT REQUIREMENTS.
4. CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR B MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR B MATERIAL FOR TESTING AND CERTIFICATION FROM THE INDERPENDENT TESTING AGENCY RETAINED BY THE CONSTRUCTION MANAGER IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS TO THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
5. GRANULAR A MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR B PLACEMENT.
6. CONTRACTOR TO SUPPLY, PLACE AND COMPACT GRANULAR A MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF GRANULAR A MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE GRADATION REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
7. ASPHALT MATERIAL TO BE PLACED ONLY UPON APPROVAL BY THE GEOTECHNICAL CONSULTANT OF GRANULAR A PLACEMENT.
8. CONTRACTOR TO SUPPLY, PLACE AND COMPACT ASPHALT MATERIAL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL CONSULTANT. CONTRACTOR TO PROVIDE CONSULTANT WITH SAMPLES OF ASPHALT MATERIAL FOR TESTING AND CERTIFICATION FROM THE GEOTECHNICAL CONSULTANT THAT THE MATERIAL MEETS THE REQUIREMENTS SPECIFIED IN THE GEOTECHNICAL REPORT.
9. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING LINE AND GRADE IN ACCORDANCE WITH THE PLANS, AND FOR PROVIDING THE CONSULTANT WITH VERIFICATION PRIOR TO PLACEMENT.
10. ALL EXCESS MATERIAL TO BE HAULED OFFSITE AND DISPOSED OF AT AN APPROVED DUMP SITE. SHOULD THE CONTRACTOR DISCOVER ANY HAZARDOUS MATERIAL, CONTRACTOR IS TO NOTIFY CONSULTANT. CONSULTANT TO DETERMINE APPROPRIATE DISPOSAL METHOD/LOCATION.
11. PAVEMENT STRUCTURE (MATERIAL TYPES AND THICKNESS) FOR HEAVY DUTY AND LIGHT DUTY AREAS TO BE AS SPECIFIED IN THE GEOTECHNICAL REPORT AND SHOWN ON THE PLANS.

Notes: Storm Sewer and Manholes

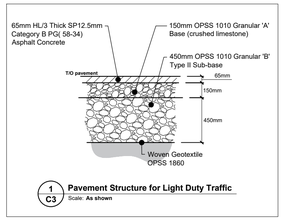
1. ALL STORM SEWER MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW STORM SEWERS, SERVICES AND CB LEADS.
2. STORM SEWERS 375mm DIAMETER AND SMALLER SHALL BE PVC SDR-35, WITH RUBBER GASKET PER CSA A-257.3.
3. STORM SEWERS 450mm AND LARGER SHALL BE REINFORCED CONCRETE CLASS 100.
4. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
5. ALL STORM MANHOLES TO BE AS PER MANHOLE AND CATCHBASIN SCHEDULE.
6. ANY NEW OR EXISTING STORM SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD S35, OR APPROVED BY THE ENGINEER.
7. CB IN LANDSCAPE AREAS SHALL BE AS PER CITY OF OTTAWA STANDARD S29, S30 AND S31.
8. ALL CATCHBASIN LEADS TO BE MINIMUM 200mm DIAMETER AT MINIMUM 1.0% SLOPE UNLESS OTHERWISE SPECIFIED.
9. STORM CATCHBASINS AS PER OPSD 705.010 AND FRAME/COVER AS PER CITY STANDARD DRAWINGS S19. STORM CBMHS AS INDICATED IN TABLE WITH SUMP, ADJUSTMENT SECTIONS SHALL BE AS PER OPSD 704.010.
10. INSTALLATION OF FLOW CONTROL ICD'S TO BE VERIFIED BY QUALITY VERIFICATION ENGINEER RETAINED BY CONTRACTOR.

Notes: Watermain

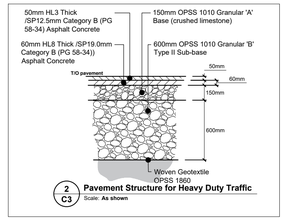
1. ALL WATERMAIN AND WATERMAIN APPURTANANCES, MATERIALS, CONSTRUCTION AND TESTING METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA AND MINISTRY OF ENVIRONMENT STANDARDS AND SPECIFICATIONS.
2. ALL WATERMAIN 300mm DIAMETER AND SMALLER TO BE POLY VINYL CHLORIDE (PVC) CLASS 150 DR 18 MEETING AWWA SPECIFICATION C900.
3. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE WATERMAINS CROSS OVER OTHER UTILITIES, A MINIMUM 0.30m CLEARANCE SHALL BE MAINTAINED; WHERE WATERMAINS CROSS UNDER OTHER UTILITIES, A MINIMUM 0.50m CLEARANCE SHALL BE MAINTAINED. WHERE THE MINIMUM SEPARATION CANNOT BE ACHIEVED, THE WATERMAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS W25 AND W25.2. WHERE 2.4m MINIMUM DEPTH CANNOT BE ACHIEVED, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W22. WHERE A WATERMAIN IS IN CLOSE PROXIMITY TO AN OPEN STRUCTURE, THERMAL INSULATION SHALL BE PROVIDED AS PER CITY OF OTTAWA STANDARD W22.
4. CONCRETE THRUST BLOCKS AND MECHANICAL RESTRAINTS ARE TO BE INSTALLED AT ALL TEES, BENDS, HYDRANTS, REDUCERS, ENDS OF MAINS AND CONNECTIONS 100mm AND LARGER, IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25.3, W25.4, W25.5 & W25.6.
5. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 & W42.
6. ALL VALVES AND VALVE BOXES AND CHAMBERS, HYDRANTS, AND HYDRANT VALVES AND ASSEMBLES SHALL BE INSTALLED AS PER CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
7. FIRE HYDRANT LOCATION AND INSTALLATION AS PER CITY OF OTTAWA STANDARD W18 & W19. CONTRACTOR TO PROVIDE FLOW TEST AND PAINTING OF NEW HYDRANT IN ACCORDANCE WITH CITY STANDARDS.
8. IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

Notes: Sanitary Sewer and Manholes

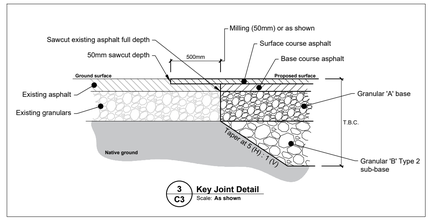
1. ALL SANITARY SEWER, SANITARY SEWER APPURTENANCES AND CONSTRUCTION METHODS SHALL CONFORM TO THE CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. PROVIDE CCTV INSPECTION REPORTS FOR ALL NEW SANITARY PIPING. PROVIDE DYE TESTING FOR NEW SERVICES.
2. SANITARY SEWER PIPE SIZE 150mm DIAMETER AND GREATER TO BE PVC SDR-35 (UNLESS SPECIFIED OTHERWISE) WITH RUBBER GASKET TYPE JOINTS IN CONFORMANCE WITH CSA B-182.2,3,4.
3. SEWER BEDDING AS PER CITY OF OTTAWA DETAIL S6.
4. ALL SANITARY MANHOLES 1200mm IN DIAMETER TO BE AS PER OPSD 701.01. FRAME AND COVER TO BE AS PER CITY OF OTTAWA STANDARD S25 AND S24.
5. MAINTENANCE HOLE BENCHING AND PIPE OPENING ALTERNATIVES AS PER THE OPSD 701.021
6. ANY SANITARY SEWER WITH LESS THAN 2.0m COVER REQUIRES THERMAL INSULATION AS PER CITY OF OTTAWA STANDARD S35, OR APPROVED BY THE ENGINEER.



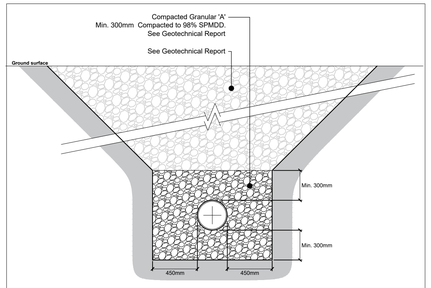
1 C3 **Pavement Structure for Light Duty Traffic**
Scale: **As shown**



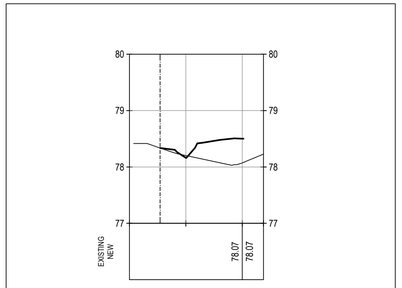
2 C3 **Pavement Structure for Heavy Duty Traffic**
Scale: **As shown**



3 C3 **Key Joint Detail**
Scale: **As shown**



4 C3 **Standard Trench Detail**
Scale: **As shown**



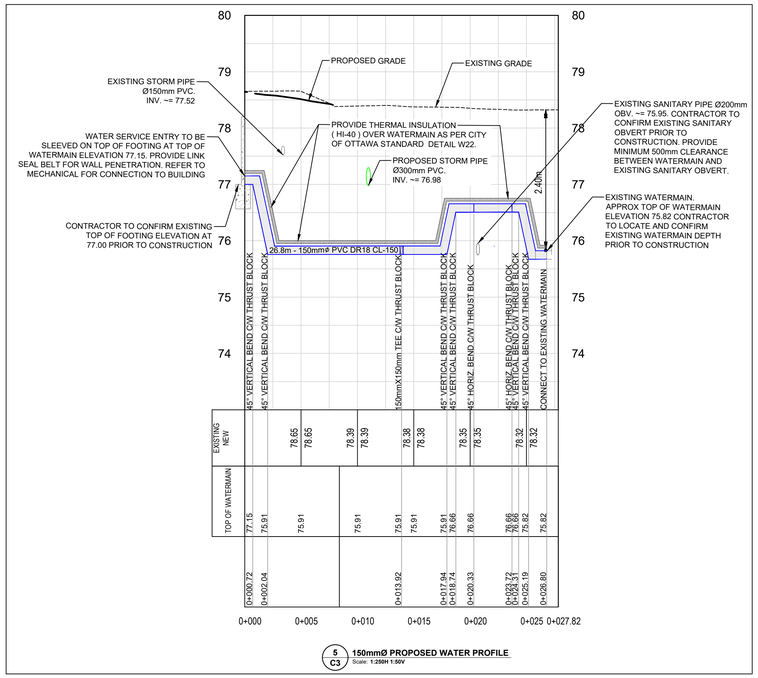
A-A C3 **Swale Section**
Scale: **H 1:250 V 1:50**

NEW CATCH BASIN AND MANHOLE STRUCTURE SCHEDULE

MANHOLE NO.	DESCRIPTION	T/GRATE ELEVATION	INVERT ELEVATION / PIPE DIAMETER	OPSD No. & COO	FRAME (CITY OF OTTAWA)
CB-1	600x600mm CATCHBASIN	77.90	SW INV.: 77.29 - 150mmØ NW INV.: 77.31 - 150mmØ SE INV.: 77.28 - 300mmØ	705.010	S19
RYCB-1	300mmØ DRAINAGE BASIN	77.90	NE INV.: 77.42 - 150mmØ	S30	S30
RYCB-2	300mmØ DRAINAGE BASIN	77.84	SE INV.: 77.45 - 150mmØ	S30	S30
RYCB-3	300mmØ DRAINAGE BASIN	78.15	SW INV.: 77.26 - 200mmØ	S30	S30
RYCB-4	300mmØ DRAINAGE BASIN	78.20	SW INV.: 77.25 - 200mmØ	S30	S30
STMH-1	1,200mmØ MAINTENANCE HOLE	78.45	NW INV.: 77.24 - 300mmØ SW INV.: 77.25 - 250mmØ SE INV.: 77.20 - 300mmØ	701.010	S24.1 / S25
STMH-2	1,200mmØ MAINTENANCE HOLE	78.50	NW INV.: 77.03 - 300mmØ SE INV.: 77.01 - 300mmØ	701.010	S24.1 / S25

CROSSING TABLE

LOCATION	OVER / UNDER	T/G	OBVERT	INVERT	CLEARANCE (m)
1	NEW STORM SEWER - NEW WATERMAIN	78.40	75.90 (WM)	76.98 (STM)	1.08
2	EXISTING STORM SEWER - NEW WATERMAIN	78.56	76.84 (WM)	77.52 (STM)	0.68
3	NEW WATERMAIN - EXISTING SANITARY SEWER	78.35	75.95 (SAN)	76.45 (WM)	0.50



5 C3 **150mmØ PROPOSED WATER PROFILE**
Scale: **1:250H 1:50V**

INGRID LU
PLANNER 1
PLANNING, DEVELOPMENT AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA

APPROVED
By Ingrid Lu at 7:38 am, Oct 21, 2026

INFRASTRUCTURE SERVICES DESIGN AND CONSTRUCTION

SERVICES D'INFRASTRUCTURE DIRECTION DE CONCEPTION ET DE CONSTRUCTION

FOR / POUR

Client - Department
Infrastructure and Water Services Department
Design & Construction

NUMBER/ NUMERO	MILESTONE / FAIT SAILLANT	DATE: (Y/M/D) (AN/M/J)	INITIALS INITIALES
6	ISSUED FOR SITE PLAN CONTROL REV-2.1	26/10/15	R.I / Z.B.
5	ISSUED FOR TENDER	26/08/21	R.I / Z.B.
4	ISSUED FOR SITE PLAN CONTROL REV-2	26/08/20	R.I. / Z.B.
3	ISSUED FOR 99% REVIEW / PERMIT	26/05/26	R.I. / Z.B.
2	ISSUED FOR 66%	26/04/17	R.I. / Z.B.
1	ISSUED FOR SITE PLAN CONTROL REV-1	26/04/14	R.I. / Z.B.

DESIGNED BY / CONCU PAR: ZACH BAUMAN
CHECKED BY / VERIFIE PAR: ALI SAMMOUR
DRAWN BY / DESSINE PAR: RAFAT ISMAIL
SCALE / ECHELLE: 1:250

1 / A1.1 — DETAIL NUMBER / DRAWING TITLE / SCALE: / SHEET NUMBER

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CE DESSIN CONSTITUE LA PROPRIÉTÉ DE LA VILLE D'OTTAWA ET TOUT DROIT D'AUTEUR EST RÉSERVÉ. LES DIMENSIONS UTILISÉES LE SONT À DES FINS D'ESTIMATION SEULEMENT. IL INCOMBE À CHAQUE ENTREPRENEUR, SOUS-CONTRACTANT OU CONSULTANT DE VÉRIFIER TOUTES LES DIMENSIONS ET LES CONDITIONS SUR LE CHANTIER. VEUILLEZ INFORMER LE PROPRIÉTAIRE DE TOUTE ERREUR OU OMISSION AVANT D'ENTAMER LES TRAVAUX. NE DRESSEZ PAS LES PLANS À L'ÉCHELLE.

ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL

LICENSED PROFESSIONAL ENGINEER — Z. E. BAUMAN — 100578796 — October 15, 2026 — PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL

LICENSED PROFESSIONAL ENGINEER — A. SAMMOUR — 100227665 — Oct. 15, 2026 — PROVINCE OF ONTARIO

PROJECT / LOCATION / PROJET / ENDROIT

ALEXANDER COMMUNITY CENTRE EXPANSION

960 Silver Street
OTTAWA, ONTARIO

DRAWING / DESSIN

DETAILS, NOTES AND SCHEDULES

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ BUILDING NUMBER / NUMÉRO DU BÂTIMENT

SHEET NO. / FEUILLE No.

C.03

CITY PROJECT NO. / NUMÉRO DE PROJET	CONS_PROJECT NO / NUMÉRO DE PROJET
CF001822	25-1170A

D07-12-26-0038

PLAN #19509

DWG NAME: // MAS.TDSCP.NET\DOS\25-1170A - WORK - ALEXANDER COMMUNITY CENTRE EXPANSION\2 DRAWINGS\1 ENGINEERING\2_1170A_ALEXANDER EC EXPANSION ISSUED FOR DPC R21 OCTOBER 15 2026.DWG LAYOUT: C3_DETAILS, NOTES & SCHEDULES SAVED ON 2026-10-20

EROSION AND SEDIMENT CONTROL NOTES

**** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES.****

1. PRIOR TO START OF CONSTRUCTION:
   - 1.1. INSTALL SILT FENCE IN LOCATION SHOWN ON DRAWINGS.
   - 1.2. INSTALL FILTER FABRIC OR SILT SACK FILTERS IN ALL THE CATCHBASINS AND MANHOLES TO REMAIN DURING CONSTRUCTION WITHIN THE SITE (SEE TYPICAL DETAIL).
   - 1.3. INSPECT MEASURES IMMEDIATELY AFTER INSTALLATION.
2. DURING CONSTRUCTION:
   - 2.1. MINIMIZE THE EXTENT OF DISTURBED AREAS AND THE DURATION OF EXPOSURE AND IMPACTS TO EXISTING GRADING.
   - 2.2. PERIMETER VEGETATION TO REMAIN IN PLACE UNTIL PERMANENT STORM WATER MANAGEMENT IS IN PLACE. OTHERWISE, IMMEDIATELY INSTALL SILT FENCE WHEN THE EXISTING SITE IS DISTURBED AT THE PERIMETER.
   - 2.3. PROTECT DISTURBED AREAS FROM OVERLAND FLOW BY PROVIDING TEMPORARY SWALES TO THE SATISFACTION OF THE FIELD ENGINEER. TIE-IN TEMPORARY SWALE TO EXISTING CBS AS REQUIRED.
   - 2.4. PROVIDE TEMPORARY COVER SUCH AS SEEDING OR MULCHING IF DISTURBED AREA WILL NOT BE REHABILITATED WITHIN 30 DAYS.
   - 2.5. INSPECT SILT FENCES, FILTER FABRIC FILTERS AND CATCH BASIN SUMPS WEEKLY AND WITHIN 24 HOURS AFTER A STORM EVENT. CLEAN AND REPAIR WHEN NECESSARY.
   - 2.6. DRAWING TO BE REVIEWED AND REVISED AS REQUIRED DURING CONSTRUCTION.
   - 2.7. EROSION CONTROL FENCING TO BE ALSO INSTALLED AROUND THE BASE OF ALL STOCKPILES.

EROSION AND SEDIMENT CONTROL NOTES CONTINUED

**** CONTRACTOR IS RESPONSIBLE FOR ALL INSTALLATION, MONITORING, REPAIR AND REMOVAL OF ALL EROSION AND SEDIMENT CONTROL FEATURES.****

- 1.1. DO NOT LOCATE TOPSOIL PILES AND EXCAVATION MATERIAL CLOSER THAN 2.5m FROM ANY PAVED SURFACE, OR ONE WHICH IS TO BE PAVED BEFORE THE PILE IS REMOVED. ALL TOPSOIL PILES ARE TO BE SEEDED IF THEY ARE TO REMAIN ON SITE LONG ENOUGH FOR SEEDS TO GROW (LONGER THAN 30 DAYS).
- 1.2. CONTROL WIND-BLOWN DUST OFF SITE BY SEEDING TOPSOIL PILES AND OTHER AREAS TEMPORARILY (PROVIDE WATERING AS REQUIRED AND TO THE SATISFACTION OF THE ENGINEER).
- 1.3. NO ALTERNATE METHODS OF EROSION PROTECTION SHALL BE PERMITTED UNLESS APPROVED BY THE FIELD ENGINEER.
- 1.4. CITY OF OTTAWA ROADWAY AND SIDEWALK TO BE CLEANED OF ALL SEDIMENT FROM VEHICULAR TRACKING AS REQUIRED.
- 1.5. DURING WET CONDITIONS, TIRES OF ALL VEHICLES/EQUIPMENT LEAVING THE SITE ARE TO BE SCRAPED.
- 1.6. ANY MUD/MATERIAL TRACKED ONTO THE ROAD SHALL BE REMOVED IMMEDIATELY BY HAND OR RUBBER TIRE LOADER.
- 1.7. TAKE ALL NECESSARY STEPS TO PREVENT BUILDING MATERIAL, CONSTRUCTION DEBRIS OR WASTE BEING SPILLED OR TRACKED ONTO ABUTTING PROPERTIES OR PUBLIC STREETS DURING CONSTRUCTION AND PROCEED IMMEDIATELY TO CLEAN UP ANY AREAS SO AFFECTED.
- 1.8. ALL EROSION CONTROL STRUCTURE TO REMAIN IN PLACE UNTIL ALL DISTURBED GROUND SURFACES HAVE BEEN STABILIZED EITHER BY PAVING OR RESTORATION OF VEGETATIVE GROUND COVER.
- 1.9. 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.

LEGEND

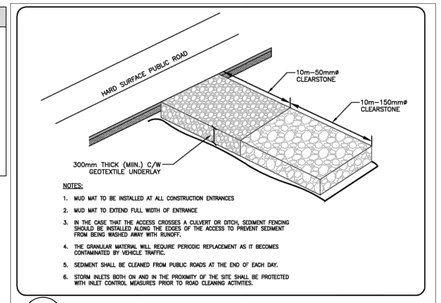
- PROPERTY LINE
- NEW BUILDING
- DEPRESSED CURB
- BREAK OF SLOPE - NEW
- NEW PROPOSED SWALE
- NEW SILT FENCE
- LIMIT OF HIGH POINT
- NEW LIGHT DUTY ASPHALT AS PER DETAIL 1 / C3
- NEW HEAVY DUTY ASPHALT AS PER DETAIL 2 / C3
- NEW CONCRETE PATHWAY
- MILLING & OVERLAY 50mm THICK HEAVY DUTY ASPHALT AS PER DETAIL 3 / C3
- NEW PRECAST PAVERS (TYPE-1 SEE LANDSCAPE)
- NEW ASPHALT PATHWAY AS PER DETAIL SC20
- 100mm TOPSOIL AND SOD
- EXISTING CONCRETE CURB
- NEW CONCRETE CURB
- PONDING LIMIT

LEGEND CONTINUED

- EXISTING CATCHBASIN
- EXISTING STORM MANHOLE
- EXISTING SANITARY MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- EXISTING UTILITY POLE
- EXISTING LIGHT STANDARD
- NEW CATCHBASIN
- NEW STORM MANHOLE / CATCHBASIN MANHOLE
- NEW REAR YARD CATCH BASIN
- NEW FIRE HYDRANT
- NEW WATER VALVE
- NEW INLET CONTROL DEVICE
- NEW ROOF DRAIN
- NEW SCUPPER AT 150mm ABOVE ROOF DRAIN LEVEL
- SEWER FLOW DIRECTION
- BUILDING ENTRANCE
- OVERLAND FLOW ROUTE

LEGEND CONTINUED

- EXISTING TREES



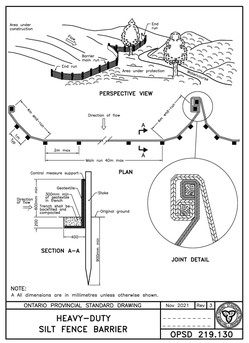
4 / C4 **Mud Mat Entrance Detail**
Scale: **Not to scale**

DRAWING NOTES

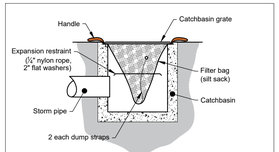
- 01 INSTALL SILT FENCE IN ACCORDANCE WITH OPSD 219.130.
- 02 INSTALL FILTER BAG (SILT SACK) TO PROTECT EXISTING CATCHBASINS & CATCHBASIN MANHOLES AS PER DETAIL 2/C4.
- 03 INSTALL MUD MAT AS PER DETAIL 3/C4 DURING CONSTRUCTION.

EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE, DURING CONSTRUCTION ACTIVITIES; THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS, AND INSTALLING AND MAINTAINING MUD MATS FOR OUTGOING CONSTRUCTION TRAFFIC DURING CONSTRUCTION ACTIVITIES.
2. PREVENT SOIL LOSS DURING CONSTRUCTION (BY STORM WATER RUNOFF OR WIND EROSION).
3. PROTECT TOPSOIL BY STOCKPILING FOR REUSE.
4. PREVENT SEDIMENTATION OF STORM SEWERS AND RECEIVING STREAMS.
5. PREVENT AIR POLLUTION FROM DUST AND PARTICULATE MATTER.
6. ALL STORM MANHOLES AND CATCHBASIN MANHOLES TO HAVE 300mm SUMPS; ALL CATCHBASINS TO HAVE 600mm SUMPS.
7. INSTALL FILTER BAG INSERT IN ALL STORM MANHOLES AND CATCH BASINS IMPACTED DURING CONSTRUCTION, INCLUDING CATCH BASINS IN THE RIGHT OF WAY.
8. SEDIMENT AND EROSION CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA INSPECTOR OR CONSERVATION AUTHORITY.
9. STORM WATER PUMPED INTO MUNICIPALITY OF CITY OF OTTAWA SERVICE SHALL FLOW THROUGH A FILTER SOCK.
10. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.



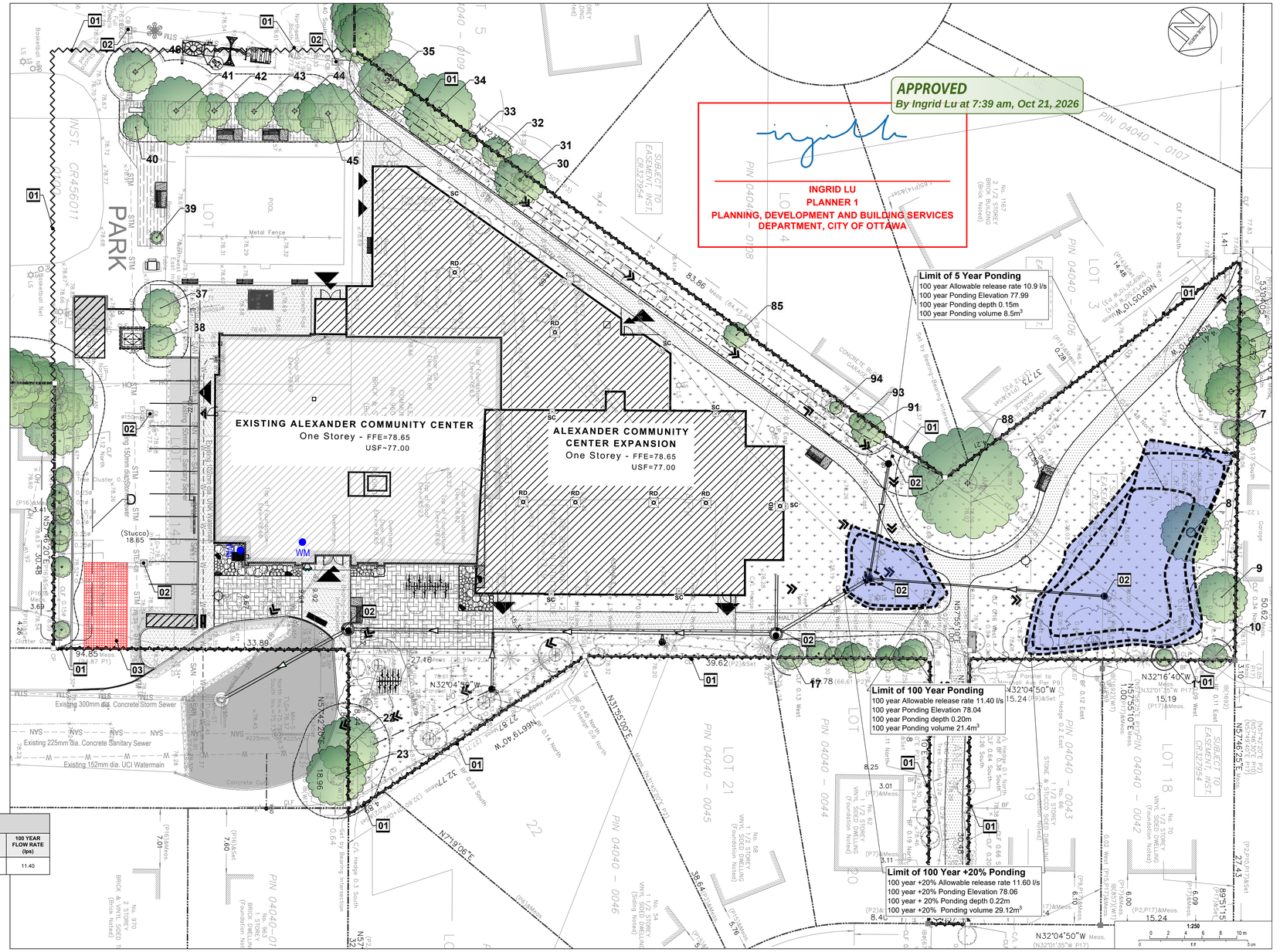
1 / C4 **Heavy Duty Silt Fence Barrier**
Scale: **Not to scale**



2 / C4 **Catchbasin Filter Bag / Insert**
Scale: **Not to scale**

ICD SCHEDULE

ICD	LOCATION	PIPE SIZE (mm)	ICD SIZE (mm)	100 YEAR HEAD (m)	100 YEAR FLOW RATE (lps)
ICD-1	CB-1	300	83	0.61	11.40



6	ISSUED FOR SITE PLAN CONTROL REV-2.1	26/10/15	R.I / Z.B.
5	ISSUED FOR TENDER	26/08/21	R.I / Z.B.
4	ISSUED FOR SITE PLAN CONTROL REV-2	26/08/20	R.I / Z.B.
3	ISSUED FOR 99% REVIEW / PERMIT	26/05/26	R.I. / Z.B.
2	ISSUED FOR 66%	26/04/17	R.I. / Z.B.
1	ISSUED FOR SITE PLAN CONTROL REV-1	26/04/14	R.I / Z.B.
NUMBER/ NUMERO	MILESTONE / FAIT SAILLANT	DATE: (YM/D) (AM/J)	INITIALS INITIALES

DESIGNED BY / CONCU PAR: ZACH BAUMAN
CHECKED BY / VERIFIE PAR: ALI SAMMOUR
DRAWN BY / DESSINE PAR: RAFAT ISMAIL
SCALE / ECHELLE: 1:250

1 / A1.1 DRAWING TITLE (DETAIL NUMBER / SCALE / SHEET NUMBER)

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ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL
LICENSED PROFESSIONAL ENGINEER
Z. E. BAUMAN
100578796
October 15, 2026
PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL
LICENSED PROFESSIONAL ENGINEER
A. SAMMOUR
100227665
Oct. 15, 2026
PROVINCE OF ONTARIO

PROJECT / LOCATION / PROJET / ENDROIT

ALEXANDER COMMUNITY CENTRE EXPANSION

960 Silver Street
OTTAWA, ONTARIO

DRAWING / DESSIN

STORM WATER MANAGEMENT AND EROSION SEDIMENT CONTROL PLAN

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ BUILDING NUMBER / NUMÉRO DU BÂTIMENT

SHEET NO. / FEUILLE No.: **C.04**

CITY PROJECT NO. / NUMÉRO DE PROJET: CF001822
CONS_PROJECT NO. / NUMÉRO DE PROJET: 25-1170A

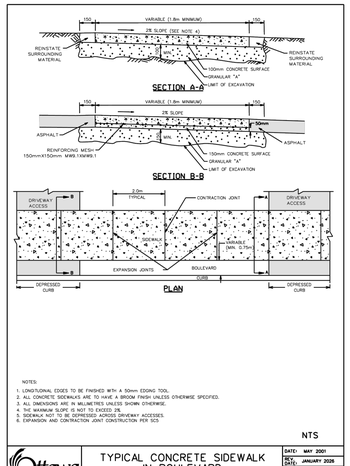
INFRASTRUCTURE SERVICES DESIGN AND CONSTRUCTION
SERVICES D'INFRASTRUCTURE DIRECTION DE CONCEPTION ET DE CONSTRUCTION

FOR / POUR
Client - Department
Infrastructure and Water Services Department
Design & Construction

DWG NAME: J:\1A\LTD\DOCUMENTS\25\1170A - HDBK - ALEXANDER COMMUNITY CENTRE EXPANSION\DRAWINGS\CD\CONCEPTUAL\ 1170A_ALEXANDER CC EXPANSION ISSUED FOR SPC REV 1 OCTOBER 15 2026.DWG LAYOUT: C4_SITE ERMP AND EROSION PLAN SAVED ON: 10/21/2026

D07-12-26-0038

PLAN #19509

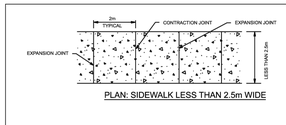


NOTES:

1. LONGITUDINAL EDGES TO BE FINISHED WITH A 50mm EDGING TOOL.
2. ALL CONCRETE SIDEWALKS ARE TO HAVE A BROOM FINISH UNLESS OTHERWISE SPECIFIED.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
4. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%.
5. DRIVEWAYS NOT TO BE DEPRESSED ACROSS DRIVEWAY ACCESSES.
6. EXPANSION AND CONTRACTION JOINT CONSTRUCTION PER SC5

NTS

TYPICAL CONCRETE SIDEWALK IN BOULEVARD	DATE: MAY 2001 REV: JANUARY 2026 DWG. No.: SC4



PLAN: SIDEWALK LESS THAN 2.5m WIDE



CONTRACTION JOINT PROFILE (SAW CUT)

CONTRACTION JOINT PROFILE (HAND TOOL)

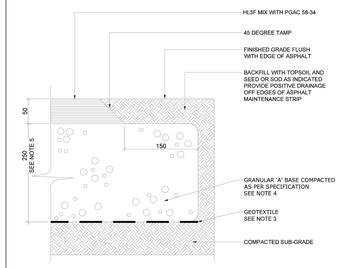


EXPANSION JOINT PROFILE

NOTES:

1. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT THE ENDS, THE MIDPOINT, AT INTERVALS OF 4M MAXIMUM, AND ALSO TO SEPARATE OBSTRUCTIONS FROM SIDEWALK, HYDRANTS, POLES, BUILDINGS, ETC.
2. LONGITUDINAL EDGES ARE TO BE FINISHED WITH A 50mm EDGING TOOL.
3. CONTRACTION JOINTS ARE TO BE SAWCUT WITH A GREEN SAW OR BY HANDTOOLING
4. THE TERMINATION OF THE JOINTS AT BOTH THE FRONT AND BACK OF SIDEWALKS SHALL BE NO LESS THAN 600mm APART
5. JOINTS IN ALL CONCRETE ELEMENTS SHALL BE LAID OUT TO ENSURE THAT NO INDIVIDUAL RESULTING CONCRETE PANEL IS LESS THAN 0.5m2 OR GREATER THAN 6m2

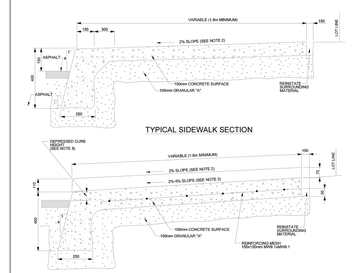
SIDEWALK CONSTRUCTION JOINTS	DATE: MAY 2001 REV: JAN 2026 DWG No: SC5



NOTE:

1. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
2. CROSS SLOPE SIDEWALK IN DIRECTION OF NATURAL DRAINAGE TO PROVIDE POSITIVE DRAINAGE OFF ALL WALKING SURFACE
3. APPROVED NON-WOVEN CLASS 1 GEOTEXTILE AS PER MT-24.15
4. GRANULAR 'A' SHALL MEET THE REQUIREMENTS OF OPSS 1010
5. IF CONSTRAINED BETWEEN HARDSCAPING ELEMENTS (IE. CURB, SIDEWALK, ETC) TAPER BETWEEN SUBGRADE OF EACH RESPECTIVE ELEMENT TO ENSURE POSITIVE DRAINAGE

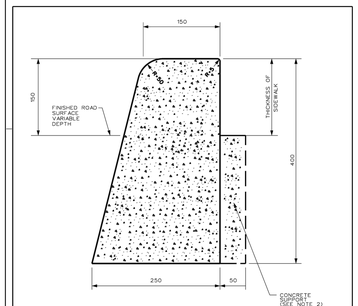
ASPHALT MAINTENANCE STRIP	DATE: FEB 2013 REV: FEB 2025 DWG No: SC20



NOTES:

1. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
2. THE MAXIMUM SLOPE IS NOT TO EXCEED 2%
3. FOR CURB RAMPS, SLOPE OF 2% TO 5% MAXIMUM 8%.
4. EXPANSION AND DUMMY JOINTS AS PER SC5
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 15mm

MONOLITHIC CONCRETE CURB AND SIDEWALK	DATE: MAY 2001 REV: JULY 2025 DWG No: SC2



CONCRETE BARRIER CURB

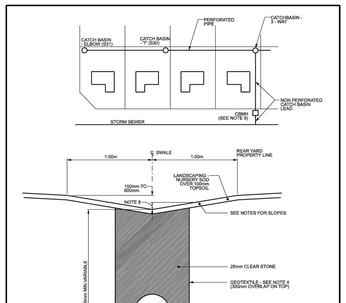
NOTES:

1. THE FULL CURB DEPTH SHALL BE CARRIED THROUGH THE DEPRESSED ACCESS CROSSING.
2. A CONCRETE SUPPORT IS REQUIRED WHEN BUILT ADJACENT TO THE SIDEWALK
3. IF AN EXTRUSION CURBING MACHINE IS USED, THE EXPANSION BITUMINOUS MATERIAL AND THE #15 DOWELS ARE TO BE PLACED AT THE END OF THE EXTRUSION
4. EXPANSION AND CONTRACTION JOINTS AT 4M SPACING
5. DEPRESSED CURB HEIGHT - FOR PEDESTRIAN CURB RAMPS 0 TO 6 mm AND FOR PRIVATE ENTRANCES 0 TO 15mm

(DIMENSIONS mm)

NTS

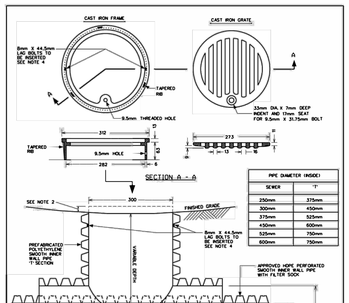
CONCRETE BARRIER CURB FOR GRANULAR BASE PAVEMENT (MODIFIED OPSD 600.110)	DATE: JAN 2003 REV. DATE: JANUARY 2026 DWG. No.: SC11



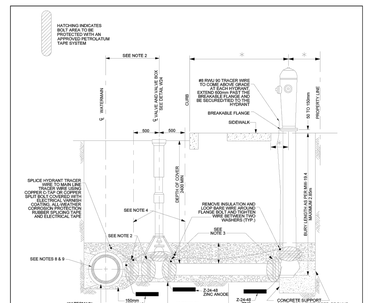
NOTES:

1. SIDE SLOPE OF SWALE - MIN. 1.5%, MAX. 3:1
2. LONGITUDINAL SLOPE OF SWALE WITHOUT PERFORATED PIPE 1.5% MIN.
3. LONGITUDINAL SLOPE OF SWALE WITH PERFORATED PIPE 0.5% MIN. WITH 1% OR GREATER PREFERRED.
4. UNDER DRIVEWAYS NON PERFORATED PIPE TO BE USED WITH 75mm BEDDING AND BACKFILLED WITH APPROVED NATIVE MATERIAL.
5. CB "T" TO BE SPACED ABOUT EVERY 30 TO 250 AND LOCATED 1m OFF REAR YARD AND SIDE YARD PROPERTY LINES.
6. CB ELBOW TO BE AT UPPER ENDS OF PERFORATED PIPE AND LOCATED 1m OFF REAR YARD AND SIDE YARD PROPERTY LINES.
7. GEOTEXTILE SHALL BE APPROVED NON-WOVEN CLASS 1 OR AS SPECIFIED.
8. MAXIMUM REAR YARD WATER DEPTH IS 300mm.
9. 4.5T STANDARD CATCHBASIN NO DEEPER THAN 2.4m OR A CATCHBASIN MAINTENANCE HOLE. STANDARD FRAMES OR PERFORATED OR SOLID COVER AS SPECIFIED. STANDARD CCFS AS SPECIFIED

PERFORATED PIPE INSTALLATION FOR REAR YARD AND LANDSCAPING APPLICATIONS	DATE: MARCH 2007 REV. DATE: MARCH 2019 DWG. No.: S29



CATCH BASIN - 'I' FOR REAR YARD, DITCHED PIPE AND LANDSCAPING APPLICATIONS	DATE: MARCH 2007 REV. DATE: MARCH 2020 DWG. No.: S30



NOTES:

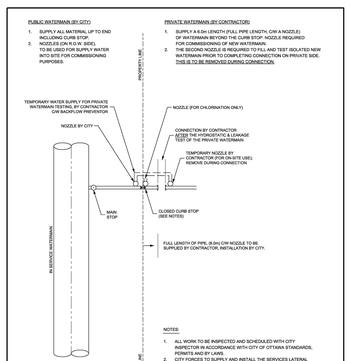
FOR ALL WATERMAINS

1. SEE DETAIL W20 FOR HYDRANTS IN DITCH AREAS
2. FOR WATERMAINS 400mm AND UNDER, LOCATE VALVE WITHIN 1.0m OF CENTRELINE. RETAINING/RESTRAINING DEVICES TO BE UTILIZED. FOR WATERMAINS 600mm AND OVER, BOLT VALVE WITH FLANGED END DIRECTLY TO FLANGED TEE
3. SEE W19 FOR HYDRANT LOCATION REQUIREMENTS
4. HYDRANT BREAKABLE FLANGE ELEVATION TO BE ESTABLISHED PRIOR TO INSTALLATION. REFER TO MW-19.4 AND F-4414
5. SEE SPP-2120 FOR BACKFILL REQUIREMENTS IN THIS AREA
6. SEE F-4414 FOR HYDRANT LOCATION REQUIREMENTS
7. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED
8. FOR 150mm WATERMAINS USE A 150 x 150 TANGENTIAL TEE WITH THE 150mm OUTLET ON TOP
9. FOR ALL 400mm WATERMAINS USE A 400 x 150 TANGENTIAL TEE WITH THE 150mm OUTLET ON TOP
10. *DUCTILE IRON ONLY* THERMITE WELD TWO #6 RW/JW CABLES ACROSS EACH PIPEFITTING JOINT OR CONNECTION TO ENSURE ELECTRICAL CONTINUITY ALONG ALL METALLIC COMPONENTS
11. ALL MATERIALS SHALL BE IN ACCORDANCE WITH MW-19.15
12. TRACER WIRE BOLT CONNECTIONS TO BE COMPLETED PER W55
13. TRACER WIRE SPLICES TO BE COMPLETED PER W47

HYDRANT INSTALLATION - NEW CONSTRUCTION	DATE: MAY 2001 REV: MAR 2023 DWG No: W19

APPROVED
By Ingrid Lu at 7:39 am, Oct 21, 2026

INGRID LU
PLANNER 1
PLANNING, DEVELOPMENT AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA

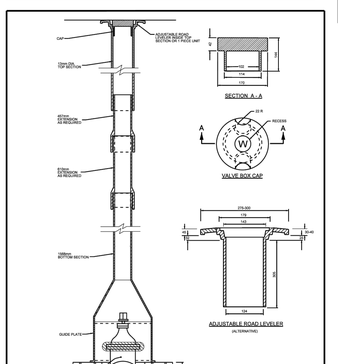


NOTES:

1. ALL WORK TO BE INSPECTED AND SCHEDULED WITH CITY
2. ALL WORK TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS, PERMITS AND BY-LAWS.
2. CITY FORCES TO SUPPLY AND INSTALL THE SERVICES LATERAL UP TO AND INCLUDING THE CURB STOP.
3. CONTRACTOR TO SUPPLY A 6.0m LENGTH OF WATERMAIN PIPE BEYOND PROPERTY LINE (SEE NOTES). CITY FORCES TO INSTALL.
4. CITY FORCES WILL COMPLETE COMMISSIONING OF SERVICES AND WATERMAIN UP TO CURB STOP.
5. CONTRACTOR TO INSTALL, RINSE & HYDROSTATIC TEST PRIVATE WATERMAIN.
6. CONTRACTOR TO COMPLETE CONNECTION (ON PRIVATE SIDE).
7. CITY FORCES TO COMPLETE FLUSING, DISINFECTION, & BACTI TESTING OF PRIVATE WATERMAIN.
8. CITY FORCES TO OPEN THE CURB STOP AFTER THE METER IS INSTALLED AND INSPECTED BY DRINKING WATER SERVICES.

N.T.S.

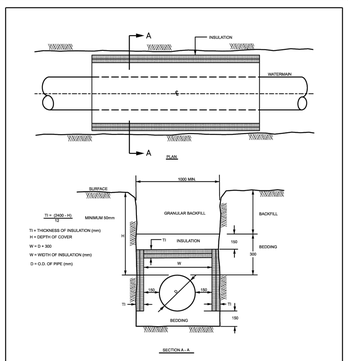
TYPICAL PRIVATE SERVICE ≥100mm CONNECTION PROCEDURE	DATE: MAY 2001 REV. DATE: MARCH 2013 DWG. No.: W50



NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE
2. FOR 250 AND 300mm DIA UNITS, ADD BEDDING BELOW THE CONCRETE BLOCKS AS REQUIRED TO RAISE BELL HIGH ENOUGH TO PREVENT CONTACT WITH THE VALVE BONNET.

VALVE BOX ASSEMBLY	DATE: MAY 2001 REV. DATE: MARCH 2021 DWG. No.: W24

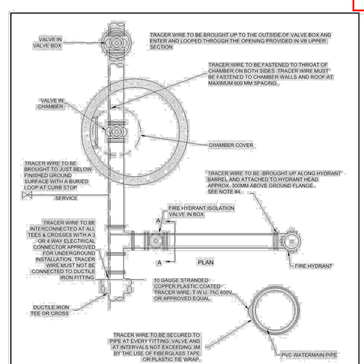


NOTES

FOR 100 - 400mm (NOMINAL DIAMETER) WATERMAINS, WHERE THE DEPTH OF COVER IS LESS THAN 2400mm

1. INCREMENTS OF THICKNESS SHALL BE ADJUSTABLE TO 25mm.
2. IN PROXIMITY OF MAINTENANCE HOLES, CLUVERTS, CATCHBASINS, ETC., INSULATION SHALL BE PLACED PER DETAIL W23
3. DEPTH OF COVER LESS THAN 1200mm REQUIRES SPECIAL DESIGN.
4. STAGGER JOINTS OF MULTIPLE SHEETS.
5. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.
7. INSULATION NOT TO BE USED AS A MEANS TO AVOID EXCAVATION.

THERMAL INSULATION FOR WATERMAINS	DATE: MAY 2001 REV. DATE: JANUARY 2026 DWG. No.: W22



NOTES:

1. ALL CONNECTIONS MUST BE WATERPROOFED.
2. SPLICING OF TRACER WIRE IS NOT ALLOWED UNLESS SPECIFIED OR APPROVED.
3. TRACER WIRE CONTINUITY OF CURRENT MUST BE TESTED AND VERIFIED.
4. TRACER WIRE AT HYDRANT SHALL BE BROUGHT TO THE SURFACE AND TIED AROUND BARREL.
5. FOR PVC TO DUCTILE IRON CONNECTIONS THE TRACER WIRE MUST BE ATTACHED TO THE DUCTILE IRON PIPE BY CADWELD.
6. TRACER WIRE TO CONNECT TO ALL COPPER SERVICE CONNECTIONS AT OR NEAR MAIN STOP. INSTALL BRASS CONNECTOR TO COPPER PIPE AND FASTEN TRACER WIRE TO CONNECTOR.

Jp2g Consultants Inc. ENGINEERS – PLANNERS – PROJECT MANAGERS	TRACER WIRE INSTALLATION PVC WATERMAIN	DATE: MAY 2002 REV. DATE: MAR 2023 DWG. No.: W-4

INFRASTRUCTURE SERVICES
DESIGN AND CONSTRUCTION

SERVICES D'INFRASTRUCTURE
DIRECTION DE CONCEPTION ET DE CONSTRUCTION

FOR / POUR

Client - Department
Infrastructure and Water Services Department
Design & Construction

NUMBER/ NUMERO	MILESTONE / FAIT SAILLANT	DATE: (YY/MM/DD) (AN/M/J)	INITIALS INITIALES
6	ISSUED FOR SITE PLAN CONTROL REV-2.1	26/10/15	R.I / Z.B.
5	ISSUED FOR TENDER	26/08/21	R.I / Z.B.
4	ISSUED FOR SITE PLAN CONTROL REV-2	26/08/20	R.I / Z.B.
3	ISSUED FOR 99% REVIEW / PERMIT	26/05/26	R.I / Z.B.
2	ISSUED FOR 66%	26/04/17	R.I / Z.B.
1	ISSUED FOR SITE PLAN CONTROL REV-1	26/04/14	R.I / Z.B.

DESIGNED BY / CONCU PAR	CHECKED BY / VERIFIE PAR
ZACH BAUMAN	ALI SAMMOUR
DRAWN BY / DESSINE PAR	SCALE / ECHELLE
RAFAT ISMAIL	1:250

A1.1 — DETAIL NUMBER / DRAWING TITLE / SCALE / SHEET NUMBER

THIS DRAWING IS THE PROPERTY OF THE CITY OF OTTAWA AND ALL COPYRIGHT IS RESERVED. DIMENSIONS ON DRAWING ARE FOR ESTIMATING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR AND SUB-CONTRACTOR OR CONSULTANT TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE. NOTIFY OWNER OF ANY ERRORS OR OMISSIONS PRIOR TO COMMENCING THE WORK. DO NOT SCALE THE DRAWINGS.

CE DESSIN CONSTITUE LA PROPRIÉTÉ DE LA VILLE D'OTTAWA ET TOUT DROIT D'AUTEUR EST RÉSERVÉ. LES DIMENSIONS UTILISÉES LE SONT À DES FINS D'ESTIMATION SEULEMENT. IL INCOMBE À CHAQUE ENTREPRENEUR, SOUS-CONTRACTANT OU CONSULTANT DE VÉRIFIER TOUTES LES DIMENSIONS ET LES CONDITIONS SUR LE CHANTIER. VEUILLEZ INFORMER LE PROPRIÉTAIRE DE TOUTE ERREUR OU OMISSION AVANT D'ENTAMER LES TRAVAUX. NE DRESSEZ PAS LES PLANS À L'ÉCHELLE

ARCHITECT / ARCHITECTE	CONSULTANT / EXPERT-CONSEIL
CONSULTANT / EXPERT-CONSEIL	CONSULTANT / EXPERT-CONSEIL

LICENSED PROFESSIONAL ENGINEER — Z. E. BAUMAN — 100578796 — October 15, 2026 — PROVINCE OF ONTARIO

LICENSED PROFESSIONAL ENGINEER — A. SAMMOUR — 100227665 — Oct. 15, 2026 — PROVINCE OF ONTARIO

PROJECT / LOCATION / PROJET / ENDROIT

960 Silver Street
CENTRE EXPANSION

950 Silver Street
OTTAWA, ONTARIO

DRAWING / DESSIN

DETAILS-I

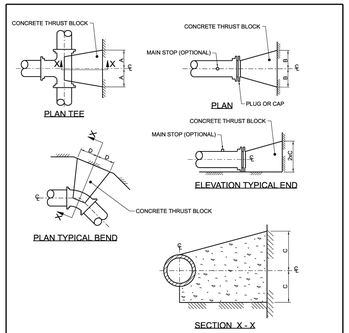
BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ BUILDING NUMBER / NUMÉRO DU BÂTIMENT	SHEET NO. / FEUILLE No.
CITY PROJECT NO. / NUMÉRO DE PROJET: CF001822	CONS_PROJECT NO. / NUMÉRO DE PROJET: 25-1170A

DET-1

DWG NAME: J:\ 401\ 1\DESIGN\ACAD\2021\T35A - WORK - ALEXANDER COMMUNITY CENTRE EXPANSION\DRAWINGS\ CIVIL\DWGS\DWG_T-35A_ALEXANDER CC EXPANSION ISSUED FOR SPC 901 OCTOBER 14 2026.DWG LAYOUT: DET-1 (ISO A1) SAVED ON 2026-10-20

PLAN #19509

007-12-26-0038



NOTES:
1. CONCRETE SHALL BE PLACED TO WITHIN 50mm OFF FACE OF THE BELL.
2. BOND BREAKER TO BE USED BETWEEN CONCRETE AND FITTINGS.
3. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
4. ALL TEES AND BENDS TO BE RESTRAINED.
5. THRUST BLOCKS SHALL BE 20 MPa CONCRETE AND AS SHOWN ON ABOVE DRAWINGS UNLESS OTHER DIRECTED BY THE CONTRACT ADMINISTRATOR. THE BLOCK SHALL BE CENTERED ON THE THRUST FORCE AND SHALL ALSO PARTIALLY CRADLE THE FITTING TO DISTRIBUTE THE FORCE. THE SIDES OF THE BLOCK SHALL BE 80mm FROM THE JOINT ON EITHER SIDE OF THE BEND OR TEE.
6. THE BEARING SURFACE OF THE BLOCK SHALL BE AGAINST UNDISTURBED SOIL AT THE BOTTOM AND SIDE OF THE TRENCH. WHERE THRUST BLOCKS CAN NOT BE POURED TO UNDISTURBED SOIL, OR WHERE IT WOULD CONFLICT WITH EXISTING OR FUTURE INFRASTRUCTURE, THE THRUST BLOCK SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
7. EXCEPT FOR THE ADDITION OF WATER, CONCRETE FOR THRUST BLOCKS SHALL COME PREMIXED FROM A CONCRETE PLANT. NO CONCRETE SHALL BE MIXED ON SITE.
ON-SITE MIXING OF CEMENT, SAND AND AGGREGATE ETC. BY THE CONTRACTOR FOR THE PURPOSE OF MAKING CONCRETE THRUST BLOCKS/ ANCHORS WILL NOT BE ACCEPTED.

N.T.S.

CONCRETE THRUST BLOCKS FOR PVC AND DI PIPE 400mm AND UNDER	DATE: MAY 2001
	REV: MARCH 2022
	DWG. No.: W25.3

1. SOIL DESCRIPTION: VERY FINE SANDS, SANDY CLAYS, CLAYS.
SOILS WITH TYPICAL BEARING STRENGTH OF 100 TO 199 KPa

PIPE DIAMETER	DIMENSION NOTED ON W25.3			
	A	B	C	D
102	250	250	200	200
152	400	400	250	300
203	550	550	300	450
254	650	650	400	500
305	800	800	450	650
406	1050	1050	600	850

2. SOIL DESCRIPTION: SILTY SAND GRAVELS OR CLAYEY SAND GRAVEL MIXTURES, MODERATE AMOUNT OF FINES.
SOILS WITH TYPICAL BEARING STRENGTH OF 200 TO 299 KPa

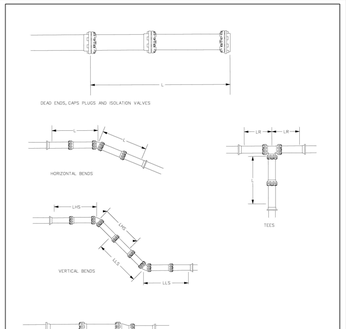
PIPE DIAMETER	DIMENSION NOTED ON W25.3			
	A	B	C	D
102	200	200	150	150
152	250	250	200	200
203	350	350	250	270
254	450	450	300	350
305	500	500	350	400
406	750	750	400	600

3. SOIL DESCRIPTION: SANDS, GRAVELS AND GRAVEL-SAND MIXTURES, LITTLE OR NO FINES.
SOILS WITH TYPICAL BEARING STRENGTH OF 300 KPa AND OVER

PIPE DIAMETER	DIMENSION NOTED ON W25.3			
	A	B	C	D
102	150	150	150	150
152	200	200	200	200
203	300	300	200	230
254	400	400	250	270
305	450	450	300	300
406	650	650	350	450

NOTES:
1. THE ABOVE THRUST BLOCK DIMENSIONS MEET OR EXCEED THE WATERMAIN DESIGN CRITERIA FOR FUTURE ALTERATIONS AUTHORIZED UNDER A DRINKING WATER WORKS PERMIT.
2. THE ASSUMPTIONS MADE FOR THE ABOVE CALCULATIONS ARE AS FOLLOWS:
a) MAXIMUM OPERATING PRESSURE OF 700 kPa.
b) MAXIMUM SURGE PRESSURE WITH A FLOW VELOCITY CHANGE OF 0.6 m/s
OF 115 psi (715 psi FOR CLASS 52 DI AND) FOR PVC MAX. SURGE IS 150 psi.
3. THE TABLES APPLY TO BOTH DUCTILE IRON AND PVC. WHERE ONE LENGTH EXCEEDED THE OTHER THE LONGER LENGTH WAS USED.
4. THRUSTING MAY BE ADJUSTED SO LONG AS THE BEARING SURFACE AREA OF THE THRUST BLOCK IS NOT REDUCED.
4. TO BE USED IN CONJUNCTION WITH W25.3.

THRUST BLOCK DIMENSION TABLES FOR PVC AND DI PIPE 400mm AND UNDER	DATE: MAY 2001
	REV: JAN 2008
	DWG. No.: W25.4



NOTES:
1. WHY JOINT THAT FALLS WITHIN THE RECOMMENDED LENGTH (L) SHALL BE RESTRAINED, SEE DRAWING W25.6
2. TO REDUCE THE NUMBER OF RESTRAINERS REQUIRED THE USE OF FULL PIPE LENGTHS IS RECOMMENDED IN THESE AREAS.

RESTRAINING AND RETAINING RINGS FOR PVC AND DI PIPE 400mm AND UNDER	DATE: MAY 2001
	TECH: NONE
	DWG. No.: W25.5

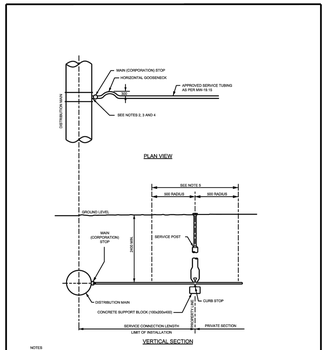
TABLE OF RESTRAINED LENGTHS FOR DI AND PVC WATERMAIN PIPE IN STANDARD GRANULAR 'A' EMBEDMENT IN SOILS OF BEARING CAPACITY OF 100 KPa AND OVER

REDUCERS	LARGER DIAMETER SIDE (TO BE RESTRAINED)					
SMALLER DIAMETER (UNRESTRAINED)	100mm	150mm	200mm	250mm	300mm	400mm
100mm	N/A	3	6	8	10	14
150mm	N/A	N/A	4	6	9	13
200mm	N/A	N/A	N/A	3	6	11
250mm	N/A	N/A	N/A	N/A	4	9
300mm	N/A	N/A	N/A	N/A	N/A	7
400mm	N/A	N/A	N/A	N/A	N/A	N/A

	PIPE DIAMETER					
	100mm	150mm	200mm	250mm	300mm	400mm
DEAD ENDS, CAPS, PLUGS, VALVES						
BEFORE CAPS AND EITHER SIDE OF VALVES - L	5	6	9	10	12	16
VERTICAL BENDS						
LENGTH HIGH SIDE - LHS	3	4	5	6	7	9
LENGTH LOW SIDE - LLS	1.5	2	2.5	3	3.5	4.5
TEES						
LENGTH ALONG THE BRANCH - L	1	1	1	1	1	1
LENGTH ALONG THE RUN - Lr	3	3	3	3	3	3
HORIZONTAL BENDS						
11.25, 22.5, AND 45 DEGREE BENDS	1	1.5	1.5	2	2	2.5

NOTES:
1. THE ABOVE RESTRAINED LENGTHS MEET OR EXCEED THE WATERMAIN DESIGN CRITERIA FOR FUTURE ALTERATIONS AUTHORIZED UNDER A DRINKING WATER WORKS PERMIT.
2. THE ASSUMPTIONS MADE FOR THE ABOVE CALCULATIONS ARE AS FOLLOWS:
a) MAXIMUM OPERATING PRESSURE OF 700 kPa.
b) MAXIMUM SURGE PRESSURE WITH A FLOW VELOCITY CHANGE OF 0.6 m/s
OF 115 psi (715 psi FOR CLASS 52 DI AND) FOR PVC MAX. SURGE IS 150 psi.
3. FOR SOFTWARE CALCULATIONS A TEST PRESSURE OF 150 psi AND A SAFETY FACTOR OF 1.5 WAS USED WHICH RESULTS IN 225 psi MAXIMUM PRESSURE.
4. TYPE 5 TRENCH BEDDING.
5. DEPTH TO BURY 2.4 METRES EXCEPT FOR VERTICAL BENDS WHERE THE HIGH SIDE IS AT 1.8 METRES.
6. EMBEDMENT MATERIAL: GRANULAR 'A' WITH CHARACTERISTICS OF ASTM D2487 GP.
7. BACKFILL MATERIAL: NATIVE SOIL (GRADED GRAVEL AND SAND-GRAVEL MIXES WITH LITTLE OR NO FINES.
8. DO NOT USE OF SOLID PIPE WITHOUT JOINTS, FITTINGS, ETC.
9. THE TABLES APPLY TO BOTH DUCTILE IRON AND PVC. WHERE ONE LENGTH EXCEEDED THE OTHER THE LONGER LENGTH WAS USED.
10. RESTRAINED LENGTHS ARE IN METRES.

TABLES OF RESTRAINED LENGTHS FOR PVC AND DI PIPE 400mm AND UNDER	DATE: MAY 2001
	REV: JANUARY 2008
	DWG. No.: W25.6



NOTES
FOR WATER SERVICE CONNECTIONS

1. FOR TRENCH DETAIL SEE 911.3 IF CLEARANCE IS AVAILABLE SNAKE PEX ACROSS THE BOTTOM OF THE TRENCH TO ACCOMODATE THERMAL EXPANSION.
2. DIRECT TAP CI. PIPE WITH APPROVED TOOL WITH STANDARD AWWA INLET THREAD.
3. APPROVED SERVICE TUBING MATERIAL AT SIZES AS LISTED "MET" OR "DRY" USING APPROVED FITTINGS AS PER NW 19 15 AND NW 19 16.
4. SEE SP 7-2120 FOR BACKFILL REQUIREMENTS IN THIS AREA.
5. ALL DIMENSIONS ARE IN MILLIMETERS.
6. CATHODIC PROTECTION MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH W36, W40, AND W42.
7. TRACER WIRE REQUIRED FOR PVC, PEX AND HDPE WATERMAIN PIPE ONLY AS PER W36.

TYPICAL SERVICE LINE 19 & 25mm (NOMINAL) DIAMETER	DATE: MAY 2001
	REV: MARCH 2021
	DWG No. W26

STANDARD TRENCH REINSTATEMENT IN PAVED SURFACE	DATE: MAY 2001
	REV: JAN 2026
	DWG No. R10

NOTES:
1. THE INSULATION MATERIAL SHALL BE EXTRUDED POLYSTYRENE ACCORDING TO MNI-10.15 WITH A MINIMUM COMPRESSIVE STRENGTH OF 275 kPa
2. MINIMUM INSULATION THICKNESS SHALL BE 50mm
3. JOINTS SHALL BE STAGGERED FOR MULTIPLE INSULATION SHEETS
4. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED

INSULATION FOR SHALLOW SEWERS	DATE: MAY 2001
	REV: JULY 2024
	DWG No: S35

APPROVED
By Ingrid Lu at 7:39 am, Oct 21, 2026

INGRID LU
PLANNER 1
PLANNING, DEVELOPMENT AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA

INFRASTRUCTURE SERVICES
DESIGN AND CONSTRUCTION

SERVICES D'INFRASTRUCTURE
DIRECTION DE CONCEPTION ET DE CONSTRUCTION

FOR / POUR
Client - Department
Infrastructure and Water Services Department
Design & Construction

NUMBER/ NUMERO	MILESTONE / FAIT SAILLANT	DATE: (YY/MM/D) (AN/M/J)	INITIALS INITIALES
6	ISSUED FOR SITE PLAN CONTROL REV-2.1	26/10/15	R.I / Z.B.
5	ISSUED FOR TENDER	26/08/21	R.I / Z.B.
4	ISSUED FOR SITE PLAN CONTROL REV-2	26/08/20	R.I / Z.B.
3	ISSUED FOR 99% REVIEW	26/05/26	R.I / Z.B.
2	ISSUED FOR 66%	26/04/17	R.I / Z.B.
1	ISSUED FOR SITE PLAN CONTROL REV-1	26/04/14	R.I / Z.B.

DESIGNED BY / CONCU PAR	CHECKED BY / VERIFIÉ PAR
ZACH BAUMAN	ALI SAMMOUR
DRAWN BY / DESSINÉ PAR	SCALE / ÉCHELLE
RAFAT ISMAIL	1:250

1 / A1.1 — DETAIL NUMBER / DRAWING TITLE / SCALE / SHEET NUMBER

THIS DRAWING IS THE PROPERTY OF THE CITY OF OTTAWA AND ALL COPYRIGHT IS RESERVED. DIMENSIONS ON DRAWING ARE FOR ESTIMATING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF EACH CONTRACTOR AND SUB-CONTRACTOR OR CONSULTANT TO CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE. NOTIFY OWNER OF ANY ERRORS OR OMISSIONS PRIOR TO COMMENCING THE WORK. DO NOT SCALE THE DRAWINGS.

CE DESSIN CONSTITUE LA PROPRIÉTÉ DE LA VILLE D'OTTAWA ET TOUT DROIT D'AUTEUR EST RÉSERVÉ. LES DIMENSIONS UTILISÉES LE SONT À DES FINS D'ESTIMATION SEULEMENT. IL INCOMBE À CHAQUE ENTREPRENEUR, SOUS-CONTRACTANT OU CONSULTANT DE VÉRIFIER TOUTES LES DIMENSIONS ET LES CONDITIONS SUR LE CHANTIER. VEUILLEZ INFORMER LE PROPRIÉTAIRE DE TOUTE ERREUR OU OMISSION AVANT D'ENTAMER LES TRAVAUX. NE DRESSEZ PAS LES PLANS À L'ÉCHELLE

ARCHITECT / ARCHITECTE	CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL — LICENSED PROFESSIONAL ENGINEER — Z. E. BAUMAN — 100578796 — October 15, 2026 — PROVINCE OF ONTARIO

CONSULTANT / EXPERT-CONSEIL — LICENSED PROFESSIONAL ENGINEER — A. SAMMOUR — 100227665 — Oct. 15, 2026 — PROVINCE OF ONTARIO

PROJECT / LOCATION / PROJET / ENDROIT

ALEXANDER COMMUNITY CENTRE EXPANSION

960 Silver Street
OTTAWA, ONTARIO

DRAWING / DESSIN

DETAILS-II

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ BUILDING NUMBER / NUMÉRO DU BÂTIMENT	SHEET NO. / FEUILLE No.
CITY PROJECT NO. / NUMÉRO DE PROJET: CF001822	CONS_PROJECT NO. / NUMÉRO DE PROJET: 25-1170A
	DET-2

DWG NAME: J:\1-MULTI DESIGN\ARCH\25-1170A - HYDRA - ALEXANDER COMMUNITY CENTRE EXPANSION\4 DRAWINGS\1 CAD\ONCAD\25_1170A_ALEXANDER EC EXPANSION ISSUED FOR SPC 6Q1 OCTOBER 15 2026.DWG LAYOUT: DET-2 (8714.5 SHEET) ON 2026-10-20

D07-12-26-0038

PLAN #19509