ARCH D 24" x 36"

GENERAL NOTES

1. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
2. THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
3. ALL WORKS SHALL BE COMPLETED IN ACCORDANCE WITH THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
4. THE CONTRACTOR AND SUB CONTRACTORS ARE RESPONSIBLE TO ENSURE THAT THEIR CONSTRUCTION MATERIALS AND PRACTICES CONFORM TO THE LATEST CITY OF OTTAWA STANDARDS, SPECIFICATIONS AND DESIGN CRITERIA. IN THE ABSENCE OF CITY OF OTTAWA SPECIFICATIONS, THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) SHALL APPLY.
5. OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR DESIGNING AND IMPLEMENTING TEMPORARY TRAFFIC MANAGEMENT PLANS FOR CONSTRUCTION WITHIN THE PEDESTRIAL AND VEHICLE CIRCULATION AREAS ON SITE , ALL PLANS ARE TO FOLLOW THE REQUIREMENTS OF THE CITY AND PROVINCIAL STANDARDS (OTM BOOK 7).
7. THE CONTRACTOR, AT THEIR EXPENSE AND TO THE SATISFACTION OF THE CITY OF OTTAWA AND THE CONTRACT ADMINISTRATOR, SHALL BE RESPONSIBLE FOR THE RESTORATION AND THE REPAIR OF ALL AREAS DISTURBED DURING CONSTRUCTION ON-SITE AND OFF-SITE, INCLUDING ASPHALT AREAS, TRENCHES AND EXISTING UTILITIES TO EXISTING CONDITIONS OR BETTER.
8. REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY CONTRACT ADMINISTRATOR. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY IN ACCORDANCE WITH O. REG. 406/19.
9. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
10. ALL BACKFILL FOR SEWERS, WATERMAINS AND UTILITIES ON THE ROAD ALLOWANCE MUST BE MECHANICALLY COMPACTED.
11. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND CITY SERVICES (WATER, SANITARY & STORM) PRIOR TO CONSTRUCTION. ANY DISCREPANCIES MUST BE REPORTED TO AECOM CANADA ULC.
12. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED.
13. ALL ELEVATIONS ARE NAD 83 MTM ZONE 9, VERTICAL DATUM CGVD 28:78
14. REFER TO GEOTECHNICAL REPORT (PROJECT: OTT-22007382-AO DATED NOV 26 2024), PREPARED BY EXP SERVICES INC. FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT RETAINED BY THE CITY IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF ANY GRANULAR MATERIAL.
15. REFER TO ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND DIMENSIONS.
16. STORMWATER MANAGEMENT DESIGN IS DOCUMENTED IN THE SITE SERVICING BRIEF PREPARED BY AECOM, DATED APRIL 2025 .
17. CONTRACTOR TO PROVIDE THE CONTRACT ADMINISTRATOR WITH A GENERAL PLAN OF SERVICES INDICATING ALL SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS, VALVE AND HYDRANT LOCATIONS, T/WM ELEVATIONS AND ANY ALIGNMENT CHANGES, ETC.

GRADING NOTES

1. ALL CONSTRUCTION WORK FOR THIS PROJECT SHALL COMPLY WITH THE STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY OF OTTAWA, THE ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (O.P.S.S.) AND THE ONTARIO BUILDING CODE (O.B.C.)
2. ALL SURFACE DRAINAGE SHALL BE CONTAINED AT SITE, COLLECTED AND DISCHARGED AT A LOCATION TO BE APPROVED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. DRAINAGE OF ABUTTING PROPERTIES SHALL NOT BE ADVERSELY AFFECTED. UNLESS NOTED OTHERWISE.
3. ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS DIRECTED BY THE CONTRACT ADMINISTRATOR OR GEOTECHNICAL ENGINEER.
4. THE SUBGRADE SHALL BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
5. EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS.
6. ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST RESISTANT AND COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
7. MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
8. MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
9. ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
10. REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
11. CONTRACTOR TO PROVIDE THE CONTRACT ADMINISTRATOR WITH A GRADING PLAN INDICATING AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON THIS PLAN.

WATERMAIN NOTES

1. SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
2. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE CITY OF OTTAWA REPRESENTATIVES.
3. PVC WATERMAINS SHALL BE MINIMUM DR 18 CLASS 235 (AWWA) C900-07
4. BEDDING SHALL BE AS PER CITY OF OTTAWA STANDARD DRAWING W17.
5. THERMAL INSULATION IN SHALLOW TRENCHES AND ADJACENT TO OPEN STRUCTURES SHALL BE AS PER CITY OF OTTAWA STANDARD DRAWING W22 AND W23.
6. MINIMUM COVER ON WATERMAINS SHALL BE 2.4 METRES.
7. PROVISIONS FOR FLUSHING THE WATER LINE PRIOR TO TESTING AND SO FORTH MUST BE PROVIDED WITH AT LEAST A 50mm OUTLET ON 100mm AND LARGER LINES AS PER OPSD1104.03-1. ALL TEES, PLUGS, HORIZONTAL, VERTICAL BENDS, REDUCERS AND HYDRANTS TO HAVE CONCRETE THRUST BLOCKS AS PER OPSD 1103.010 AND 1103.021.
8. PROPOSED WATER SERVICES ARE TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED WATER SERVICES ARE TO BE CONNECTED TO EXISTING PIPING INSTALLED BY WATERMAIN LOOP CONTRACTOR IN Q4 2025., UNLESS OTHERWISE INDICATED.
9. WATERMAINS MUST FOLLOW THE MINISTRY OF THE ENVIRONMENT ENVIRONMENT CONSERVATION AND PARKS (MECP)
10. PROCEDURES THAT GOVERN THE SEPARATION OF SEWERS AND WATERMAINS F-6-1. A MINIMUM VERTICAL CLEARANCE OF 0.30 METER OVER, 0.5 METER UNDER SEWERS AND ALL OTHER UTILITIES WHEN CROSSING. MUST ALSO MAINTAIN 2.5 METRES HORIZONTAL SEPARATION WITH SEWERS.
11. ALL PROPOSED WATER PIPING MUST BE ISOLATED FROM EXISTING LINES IN ORDER TO ALLOW INDEPENDENT PRESSURE TESTING AND CHLORINATING FROM THE EXISTING SYSTEM. FLUSHING, SWABBING AND TESTING OF WATERMAIN AS PER ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS), AS WELL AS CITY OF OTTAWA SPECIFICATION.
12. AFTER PASSING THE HYDROSTATIC PRESSURE TEST AND LEAKAGE TEST, CHLORINATION CAN PROCEED. SAMPLING OF THE NEW MAINS IS TO BE DONE AT THE REQUIRED LOCATIONS PRIOR TO CONNECTING TO THE CITY WATERMAIN SYSTEM. THE TEE FITTING IS TO BE CUT INTO THE EXISTING WATERMAIN TO MAKE THE CONNECTION. TO MAINTAIN THE PRESSURE IN THE NEW MAIN DURING INSTALLATION OF SERVICE, A 50mm BY-PASS WITH AN APPROVED PRESSURE DIFFERENTIAL BACKFLOW PREVENTER, MOUNTED ABOVE GROUND LEVEL IS TO BE INSTALLED AROUND THE CLOSED ISOLATING VALVE.
13. CITY IN-SERVICE WATER VALVES CAN ONLY BE OPERATED BY CITY OF OTTAWA WATER STAFF.
14. WATERMAINS TO BE INSTALLED TO GRADE AS SHOWN ON APPROVED PLANS, COPY OF GRADE SHEET MUST BE SUPPLIED TO INSPECTOR PRIOR TO COMMENCEMENT OF WORK, WHEN REQUESTED BY INSPECTOR.
15. VALVE IN BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA STD. MAINLINE VALVES TO BE RESTRAINED AS PER CITY OF OTTAWA STANDARDS.
16. THE CONTRACTOR SHALL COMPLETE THE NECESSARY WATER TESTING (I.E. PRESSURE TEST, FLUSHING, CHLORINATE, SAMPLING, ETC.)

Last Plotted:
Filename:

SANITARY AND STORM SEWER NOTES

1. SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT STANDARDS AND SPECIFICATIONS OF CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARDS.
2. MAIN LINE PVC PIPE SHALL BE DR 35 AND SERVICE CONNECTION PVC PIPE SHALL BE DR 28.
3. SERVICES ARE TO BE CONSTRUCTED TO BUILDING AND SANITARY AND STORM SERVICES ARE TO BE CONNECTED TO PIPING EXTENDING INTO BUILDING AT A MINIMUM SLOPE OF 1.0%.
4. BEDDING FOR FLEXIBLE PIPE SHALL BE AS PER OPSD 802.010, 802.013 OR 802.014.
5. PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO MINIMUM 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY. THE USE OF CLEAR CRUSHED STONE AS A BEDDING LAYER SHALL NOT BE PERMITTED.
6. MAINTENANCE HOLES AS PER OPSD 701.010 (1200mm), 701.011 (1500mm) AND 701.012 (1800mm).
7. FRAME AND COVER AS PER CITY OF OTTAWA STANDARDS S24, S24.1 AND S25
8. BENCHING SHALL BE AS PER OPSD 701.021.
9. TRENCH WIDTH (SEPARATE TRENCH) AT TOP OF THE PIPE SHALL BE TO CITY OF OTTAWA STANDARD S6. CONTRACTOR IS RESPONSIBLE FOR SUPPLYING ADDITIONAL BEDDING AND/OR STRONGER PIPE IF ACTUAL TRENCH WIDTHS EXCEED DESIGN WIDTHS.
10. ALL SEWERS CONSTRUCTED WITH GRADES 0.50% OR LESS, SHALL BE INSTALLED WITH LASER LEVEL AND CHECKED PRIOR TO BACKFILL AT THE CONTRACTOR'S EXPENSE.
11. INSULATE ALL PIPES THAT HAVE LESS THAN 1.5m COVER WITH HI-40 INSULATION PER INSULATION DETAIL FOR SHALLOW SEWERS. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.CONCRETE PIPE TO BE CLASS 100-D
12. SERVICE CONNECTIONS AND UTILITY CUTS TO BE BACKFILLED WITH UNSHRINKABLE FILL.
13. STORM PIPE LENGTHS ARE TO BARREL OF MANHOLE AND DO NOT INCLUDE BENCHING.
14. CONCRETE PIPES ARE TO HAVE WATERTIGHT JOINTS DESIGNED TO CSA A257.3 / ASTM C443
15. ALL STORM MANHOLES AND CATCHBASIN MANHOLES ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE INDICATED. ALL CATCHBASINS ARE TO HAVE 600mm SUMPS UNLESS OTHERWISE INDICATED.
16. ALL CATCHBASINS, MANHOLES AND/OR CATCHBASIN MANHOLES THAT ARE TO HAVE ICD'S INSTALLED WITHIN THEM ARE TO HAVE 600mm SUMPS.
17. THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
18. CONTRACTOR TO TELEVISE (CCTV) ALL PROPOSED SEWERS, 200mmØ OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.

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STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
EX CB-3	EX CB RIM = 70.18 SUMP = 67.20 N INV = 67.798 525mm S INV = 67.800 525mm	525 mm CONC INV N=67.80	525 mm CONC INV S=67.80
EX CB1	EX CB RIM = 68.80 SUMP = 67.58 W INV = 68.183 300mm		300 mm CONC CL 65-D INV W=68.18
EX CB2	EX CB RIM = 68.80 SUMP = 67.45 E INV = 68.125 300mm SW INV = 68.050 375mm	300 mm CONC CL 65-D INV E=68.12	375 mm CONC CL 65-D INV SW=68.05
EX CB3	EX CB RIM = 69.85 SUMP = 67.52 SW INV = 68.125 300mm E INV = 68.183 300mm	300 mm CONC CL 100-D INV SW=68.12	300 mm CONC CL 65-D INV E=68.18
EX CB4	EX CB RIM = 69.43 SUMP = 67.52 S INV = 68.125 300mm NE INV = 68.183 300mm	300 mm CONC CL 100-D INV S=68.12	300 mm CONC CL 100-D INV NE=68.18
EX CB5	EX CB RIM = 69.45 SUMP = 67.58 N INV = 68.183 300mm		300 mm CONC CL 100-D INV N=68.18
EX CB7	EX CB RIM = 70.22 SUMP = 67.30 N INV = 67.902 300mm		300 mm CONC CL 100-D INV N=67.90
EX CB8	EX CB RIM = 70.00 SUMP = 66.19 W INV = 68.186 600mm		600 mm CONC CL 65-D INV W=68.19
EX CBMH2	EX CBMH RIM = 68.97 SUMP = 67.26 N INV = 67.790 375mm S INV = 68.077 600mm W INV = 67.565 600mm	375 mm CONC CL 65-D INV N=67.79 600 mm CONC CL 65-D INV S=68.08	600 mm CONC CL 65-D INV W=67.56
EX CBMH3	OPSD RIM = 68.93 SUMP = 65.77 S INV = 67.810 600mm N INV = 67.770 600mm	600 mm CONC CL 65-D INV S=67.81	600 mm CONC CL 65-D INV N=67.77
EX CBMH4	EX CBMH RIM = 69.71 SUMP = 66.19 S INV = 68.186 600mm N INV = 68.186 600mm		600 mm CONC CL 65-D INV S=68.19 600 mm CONC CL 65-D INV N=68.19
EX CBMH5	EX CB RIM = 69.81 SUMP = 67.48 S INV = 68.077 600mm N INV = 68.077 600mm	600 mm CONC CL 65-D INV S=68.08 600 mm CONC CL 65-D INV N=68.08	
EX CBMH6	EX CB RIM = 69.75 SUMP = 66.08 E INV = 68.077 600mm N INV = 68.186 600mm	600 mm CONC CL 65-D INV E=68.08	600 mm CONC CL 65-D INV N=68.19
EX CBMH10	EX CBMH RIM = 69.85 SUMP = 67.64 W INV = 67.940 250mm	250 mm CONC CL 100-D INV W=67.94	
EX HEADWALL	EX HEADWALL RIM = 67.85 SUMP = ??? S INV = 67.080 600mm	600 mm ULTRA RIB INV S=67.08	
EX IN153524	EX MH RIM = 68.81 SUMP = 67.55 NE INV = 67.925 375mm S INV = 67.850 375mm	375 mm CONC CL 65-D INV NE=67.92	375 mm CONC CL 65-D INV S=67.85
EX IN154123	EX CB RIM = 68.95 SUMP = 67.59 W INV = 68.186 600mm		600 mm CONC CL 65-D INV W=68.19
EX MH1	EX 1500mm MH RIM = 70.04 SUMP = 67.24 E INV = 67.545 600mm S INV = 67.536 600mm N INV = 67.545 600mm	600 mm CONC CL 65-D INV E=67.54 600 mm CONC CL 65-D INV S=67.54	600 mm PVC ULTRA-RIB INV N=67.54
EX MH2	EX 1500mm MH RIM = 69.55 SUMP = 67.14 NW INV = 67.440 600mm N INV = 67.444 600mm	600 mm CONC CL 100-D INV NW=67.44	600 mm ULTRA RIB INV N=67.44
EX MHunk	EX STM MH RIM = 68.59 SUMP = 66.48 SE INV = 66.775 600mm	600 mm PVC ULTRA-RIB INV SE=66.78	

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
EX MH1A	EX SAN MH RIM = 68.86 SUMP = 66.86 NE INV = 67.350 200mm N INV = 67.200 200mm SE INV = 67.160 200mm	200 mm EX PVC INV NE=67.35 200 mm EX PVC INV N=67.20 200 mm EXPVC INV SE=67.16	
EX MHSA30014	EX SAN MH RIM = 69.85 SUMP = 65.58 SE INV = 65.969 200mm NW INV = 65.883 375mm	200 mm EXPVC INV SE=65.97	375 mm EXPVC INV NW=65.88
EX SAMH30012	EX SAN MH RIM = 69.10 SUMP = 66.09 W INV = 66.394 375mm		375 mm EXPVC INV W=66.39
EX SAMH30013	EX SAN MH RIM = 70.43 SUMP = 65.87 E INV = 66.172 375mm NW INV = 66.172 200mm	375 mm EXPVC INV E=66.17	200 mm EXPVC INV NW=66.17
EXMHSA30015	EX SAN MH RIM = 69.31 SUMP = 65.34 SE INV = 65.642 375mm	375 mm EXPVC INV SE=65.64	
MH1A	OPSD 701.010 RIM = 70.37 SUMP = 67.36 NW INV = 67.660 300mm N INV = 67.930 200mm SE INV = 67.830 200mm	300 mm PVC SDR 35 INV NW=67.66 200 mm PVC SDR 35 INV N=67.93	200 mm PVC SDR 35 INV SE=67.83
MH2A	OPSD 701.010 RIM = 70.48 SUMP = 67.01 NW INV = 67.770 200mm N INV = 67.600 200mm W INV = 67.313 200mm	200 mm PVC SDR 35 INV NW=67.77 200 mm PVC SDR 35 INV N=67.60	200 mm PVC SDR 35 INV W=67.31
MH3A	OPSD 701.010 RIM = 70.59 SUMP = 66.51 E INV = 67.190 200mm S INV = 67.108 200mm	200 mm PVC SDR 35 INV E=67.19	200 mm PVC SDR 35 INV S=67.11
MH4A	OPSD 701.010 RIM = 70.38 SUMP = 66.22 N INV = 66.595 200mm S INV = 66.520 200mm	200 mm PVC SDR 35 INV N=66.60	200 mm PVC SDR 35 INV S=66.52
MH5A	OPSD 701.010 RIM = 70.10 SUMP = 65.73 N INV = 66.134 200mm SE INV = 66.033 200mm NW INV = 66.032 200mm	200 mm PVC SDR 35 INV N=66.13 200 mm EXPVC INV SE=66.03	200 mm EXPVC INV NW=66.03

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
EX STMH	EX STM MH RIM = 69.39 SUMP = 67.22 W INV = 67.570 675mm S INV = 67.520 600mm N INV = 67.520 600mm	675 mm CONC CL 100-D INV W=67.57 600 mm PVC ULTRA-RIB INV S=67.52	600 mm CONC CL 100-D INV N=67.52
EX STMH2	EX CBMH RIM = 70.80 SUMP = 67.69 NW INV = 67.987 450mm	450 mm CONC CL 100-D INV NW=67.99	
EX STMH3	EX CBMH RIM = 70.13 SUMP = 67.21 NW INV = 67.508 600mm NE INV = 67.730 375mm SE INV = 67.658 450mm		600 mm CONC CL 100-D INV NW=67.51 375 mm CONC CL 100-D INV NE=67.73 450 mm CONC CL 100-D INV SE=67.66
EX STMH3A	EX CBMH RIM = 69.90 SUMP = 67.45 SW INV = 67.750 375mm E INV = 67.800 250mm	375 mm CONC CL 100-D INV SW=67.75	250 mm CONC CL 100-D INV E=67.80
EX STMH4	EX CBMH RIM = 69.38 SUMP = 66.70 SE INV = 67.048 600mm NW INV = 66.998 600mm	600 mm CONC CL 100-D INV SE=67.05	600 mm PVC ULTRA-RIB INV NW=67.00
PR CB2	OPSD 705.010 RIM = 69.32 SUMP = 67.48 E INV = 68.082 300mm		300 mm CONC CL 100-D INV E=68.08
PR CB3	OPSD 705.010 RIM = 69.54 SUMP = 67.60 NW INV = 68.203 300mm		300 mm CONC CL 100-D INV NW=68.20
PR CBMH1	OPSD 701.010 RIM = 69.92 SUMP = 67.64 N INV = 67.937 600mm S INV = 68.750 450mm		600 mm CONC CL 100-D INV N=67.94 450 mm CONC CL 100-D INV S=68.75
PR CBMH2	OPSD 701.013 RIM = 69.90 SUMP = 67.54 S INV = 67.915 600mm SE INV = 67.840 675mm	600 mm CONC CL 100-D INV S=67.92	675 mm CONC CL 100-D INV SE=67.84
PR CBMH3	OPSD 701.011 RIM = 69.61 SUMP = 67.47 NW INV = 67.820 675mm E INV = 67.770 675mm	675 mm CONC CL 100-D INV NW=67.82	675 mm CONC CL 100-D INV E=67.77
PR CBMH4	OIPSD 701.011 RIM = 69.41 SUMP = 67.38 W INV = 67.734 675mm W INV = 67.930 300mm SE INV = 67.681 675mm	675 mm CONC CL 100-D INV W=67.73 300 mm CONC CL 100-D INV W=67.93	675 mm CONC CL 100-D INV SE=67.68
PR CBMH7	OPSD 701.011 RIM = 69.98 SUMP = 67.96 N INV = 68.670 450mm E INV = 68.260 300mm S INV = 68.260 675mm	450 mm CONC CL 100-D INV N=68.67 300 mm PVC INV E=68.26	675 mm CONC CL 100-D INV S=68.26
PR CBMH8	OPSD 701.011 RIM = 69.96 SUMP = 67.89 N INV = 68.220 675mm E INV = 68.198 300mm S INV = 68.186 675mm	675 mm CONC CL 100-D INV N=68.22 300 mm PVC INV E=68.20	675 mm CONC CL 100-D INV S=68.19
PR CBMH9	OPSD 701.013 RIM = 69.95 SUMP = 67.76 N INV = 68.110 675mm SE INV = 68.060 675mm	675 mm CONC CL 100-D INV N=68.11	675 mm CONC CL 100-D INV SE=68.06
PR CBMH11	OPSD 701.011 RIM = 70.33 SUMP = 67.60 NW INV = 67.930 675mm E INV = 67.903 675mm	675 mm CONC CL 100-D INV NW=67.93	675 mm CONC CL 100-D INV E=67.90
PR CBMH12	OPSD 701.012 RIM = 69.76 SUMP = 67.42 N INV = 67.721 600mm		600 mm CONC CL 100-D INV N=67.72
PR CBMH13	OPSD 701.013 RIM = 70.14 SUMP = 67.28 SE INV = 67.584 600mm SW INV = 67.720 450mm N INV = 67.580 600mm	600 mm CONC CL 65-D INV SE=67.58 450 mm CONC CL 100-D INV SW=67.72	600 mm CONC CL 65-D INV N=67.58
PR CBMH15	OPSD 701.012 RIM = 69.54 SUMP = 67.45 NW INV = 67.750 600mm SE INV = 68.050 300mm	600 mm CONC CL 100-D INV NW=67.75 300 mm CONC CL 100-D INV SE=68.05	
PR DCMH5	OPSD 701.012 RIM = 69.28 SUMP = 67.31 NW INV = 67.660 675mm W INV = 67.869 300mm E INV = 67.610 675mm	675 mm CONC CL 100-D INV NW=67.66 300 mm CONC CL 100-D INV W=67.87	675 mm CONC CL 100-D INV E=67.61
PR DICB1	OPSD 705.030 RIM = 69.58 SUMP = 67.30 E INV = 67.900 300mm		300 mm CONC CL 100-D INV E=67.90

CURB, SIDEWALK, AND PAVEMENT NOTES

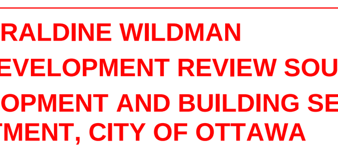
1. ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1). MOUNTABLE CURBS ARE TO BE PER CITY OF OTTAWA STANDARD (SC1.3).
2. THE GRANULAR SUB-BASE AND BASE SHALL BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
3. PROVIDE LINE/PARKING PAINTING.
4. PAVEMENT STRUCTURE FOR PARKING LOT AND BUS ACCESS ROADWAYS
   - 60mm HL3/SP12.5 CAT. D (PG 64-34)
   - 90mm HL8/SP19 CAT. D (PG64-34)
   - 150mm OF OPSS GRANULAR A BASE
   - 600mm OF OPSS GRANULAR B TYPE SUBBASE

GEOTECHNICAL NOTE

1. THE CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS OF THE GEOTECHINICAL INVESTIGATION REPORT PREPARED BY EXP SERVICES INC., DATED NOV 14 2025 AND OTHER AVAILABLE REPORTS SPECIFIC TO THE SUBJECT SITE.

STRUCTURE TABLE

STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT
PR MH10	OPSD 701.012 RIM = 70.06 SUMP = 67.54 W INV = 67.880 675mm N INV = 67.840 675mm S INV = 67.880 300mm	675 mm CONC CL 100-D INV W=67.88 675 mm CONC CL 100-D INV N=67.84 300 mm CONC CL 100-D INV S=67.88	
PR MH12	OPSD 701.012 RIM = 69.78 SUMP = 67.32 S INV = 67.700 600mm W INV = 68.000 300mm SE INV = 67.700 600mm NW INV = 67.620 600mm	600 mm CONC CL 100-D INV S=67.70 300 mm CONC CL 100-D INV W=68.00	600 mm CONC CL 100-D INV SE=67.70 600 mm CONC CL 65-D INV NW=67.62
PR MH14	OPSD 701.010 RIM = 69.86 SUMP = 67.69 E INV = 67.992 450mm		450 mm CONC CL 100-D INV E=67.99
PR MH15	OPSD 701.010 RIM = 70.23 SUMP = 67.72 S INV = 68.070 300mm E INV = 68.019 300mm	300 mm CONC CL 100-D INV S=68.07	300 mm CONC CL 100-D INV E=68.02
PR MH16	OPSD 701.011 RIM = 70.24 SUMP = 67.45 NW INV = 67.830 450mm S INV = 67.800 300mm NE INV = 67.746 450mm	450 mm CONC CL 100-D INV NW=67.83 300 mm PVC INV S=67.80	450 mm CONC CL 100-D INV NE=67.75
PR MH17	OPSD 701.010 RIM = 70.34 SUMP = 67.82 W INV = 68.120 150mm N INV = 68.121 300mm		150 mm PVC INV W=68.12 300 mm CONC CL 100-D INV N=68.12
PR MH18	OPSD 701.012 RIM = 70.08 SUMP = 67.23 S INV = 67.830 675mm		675 mm CONC CL 100-D INV S=67.83
PR MH19	OPSD 701.011 RIM = 69.51 SUMP = 67.55 W INV = 67.853 450mm SE INV = 67.853 450mm	450 mm CONC CL 100-D INV W=67.85	450 mm CONC CL 100-D INV SE=67.85
PR OGS1	STORMCEPTOR EFO10 RIM = 69.42 SUMP = 64.22 S INV = 67.470 600mm SE INV = 67.500 600mm	600 mm CONC CL 100-D INV S=67.47	600 mm CONC CL 100-D INV SE=67.50



GERALDINE WILDMAN
MANAGER, DEVELOPMENT REVIEW SOUTH
PLANNING, DEVELOPMENT AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA

APPROVED
By wildmange at 9:42 pm, Jun 04, 2026

File Number D07-12-25-0095
Plan Number 19357

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

CONSULTANT

PRIME:
AECOM Canada Architects Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4

SUBCONSULTANT:
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Ottawa, Ontario, K1N 9K1

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NUMBER NUMÉRO	MILESTONE/FAIT SAILLANT	DATE: (Y/M/D) (A/M/J)	INITIALS INITIALES
3	ISSUED FOR SPA	2026/03/26	TG
2	REISSUED FOR TENDER	2026/03/12	TG
1	ISSUED FOR TENDER	2025/12/15	TG

DESIGNED BY / CONCU PAR: Checker
CHECKED BY / VERIFIE PAR: Approver
DRAWN BY / DESSINE PAR: SS
SCALE / ECHELLE: 1 : 500

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

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ARCHITECT / ARCHITECTE

CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL

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PROJECT / LOCATION / PROJET / ENDROIT
OTC ZEB-New Garage

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OTTAWA, ONTARIO

DRAWING / DESSIN
GENERAL NOTES

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ
BUILDING NUMBER / NUMÉRO DU BÂTIMENT
OMF1

SHEET NO. / FEUILLE No.
C002

CITY PROJECT NO. / NUMÉRO DE PROJET
60716350

CONS_PROJECT NO. / NUMÉRO DE PROJET