

DESCRIPTION	EXISTING	PROPOSED	DESCRIPTION	EXISTING	PROPOSED
SITE FEATURES			SERVICES AND STRUCTURES		
PROPERTY LINE	[Symbol]	[Symbol]	SANITARY SEWER	<i>EX-250mm SAN</i>	250mm SAN
TOP OF SLOPE	[Symbol]	[Symbol]	COMBINATION SEWER	<i>EX-300mm COMB</i>	300mm COMB
TERRACING (3:1 TYPICAL)	[Symbol]	[Symbol]	STORM SEWER	<i>EX-375mm STM</i>	375mm STM
EDGE OF SHOULDER	[Symbol]	[Symbol]	STORM SUBDRAIN	<i>EX-150mm SUBDRAIN</i>	150mm SUBDRAIN
EDGE OF PAVEMENT	[Symbol]	[Symbol]	STORM CULVERT	<i>EX-600mm CULVERT</i>	600mm CULVERT
ROAD/ALIGNMENT	[Symbol]	[Symbol]	SANITARY MANHOLE	EX-SAN	SANMH 100
CHAINLINK FENCE	[Symbol]	[Symbol]	COMBINATION MANHOLE	EX-COMB	COMBHM 100
LANDSCAPE FENCE	[Symbol]	[Symbol]	STORM MANHOLE	EX-STM	STMHM 200
SIDEWALK (TYPE AS NOTED ON DRAWINGS)	[Symbol]	[Symbol]	CATCHBASIN MANHOLE	EX-CBMH	CBMH 100
BARRIER CURB (SC1.1)	[Symbol]	[Symbol]	CATCHBASIN	EX-CB	CB1
MOUNTABLE CURB (SC1.3)	[Symbol]	[Symbol]	DOUBLE CATCHBASIN	EX-DCB	DCB1
DEPRESSED CURB	[Symbol]	[Symbol]	CATCHBASIN ELBOW (S30)	EX-CBE	CBE
TACTILE WALKING SURFACE INDICATOR "TWSI" (SC7.3)	[Symbol]	[Symbol]	CATCHBASIN TEE (S31)	EX-CBT	CBT
GUARDRAIL	[Symbol]	[Symbol]	CURB INLET CATCHBASIN	EX-CICB	CICB 1
JERSEY BARRIERS	[Symbol]	[Symbol]	DITCH INLET CATCHBASIN	EX-DICB	DICB 1
BUILDING ENTRY/EXIT WITH RISERS	[Symbol]	[Symbol]	WATERMAIN	200mm WATERMAIN	200mm WATERMAIN
BUILDING ENTRY/EXIT BARRIER FREE	[Symbol]	[Symbol]	IRRIGATION	IR	IR
BUILDING ENTRY/EXIT OVERHEAD DOOR	[Symbol]	[Symbol]	VALVE AND VALVE BOX	V&VB	V&VB
POST	[Symbol]	[Symbol]	VALVE AND VALVE CHAMBER	V&VC	V&VC
SIGN	[Symbol]	[Symbol]	FIRE HYDRANT	FH	FH
BOLLARD	[Symbol]	[Symbol]	SIAMSESE CONNECTION	SC	SC
VEGETATION	[Symbol]	[Symbol]	WATER METER	WM	WM
UTILITY AND STRUCTURES			GRADING		
JOINT UTILITY OVERHEAD LINE	[Symbol]	[Symbol]	GROUND ELEVATION	X 100.00	X 100.00
HYDRO (OVERHEAD)	[Symbol]	[Symbol]	SWALE ELEVATION	X 100.00(S)	X 100.00(S)
HYDRO	[Symbol]	[Symbol]	TOP OF GRATE ELEVATION	T/G=100.00	T/G=100.00
POWER	[Symbol]	[Symbol]	TOP OF WALL ELEVATION	X 100.00 T/W	X 100.00 T/W
ELECTRICAL	[Symbol]	[Symbol]	BOTTOM OF WALL ELEVATION	X 100.00 B/W	X 100.00 B/W
BELL (OVERHEAD)	[Symbol]	[Symbol]	FINISHED FLOOR ELEVATION	FF=100.00	FF=100.00
BELL	[Symbol]	[Symbol]	TOP OF FOUNDATION ELEVATION	TF=100.00	TF=100.00
CABLE (OVERHEAD)	[Symbol]	[Symbol]	BASEMENT FLOOR ELEVATION	BF=100.00	BF=100.00
CABLE TV	[Symbol]	[Symbol]	PARKING LEVEL ELEVATION	P1=100.00	P1=100.00
FIBRE OPTIC	[Symbol]	[Symbol]	UNDERSIDE OF FOOTING ELEVATION	USF=100.00	USF=100.00
STREETLIGHT	[Symbol]	[Symbol]	ORIGINAL GROUND ELEVATION	OG=100.00	OG=100.00
GASMAIN	[Symbol]	[Symbol]	TOP OF ROCK ELEVATION	T/ROCK=100.00	T/ROCK=100.00
JOINT USE TRENCH - BELL/CABLE TV	[Symbol]	[Symbol]	CONTOUR LINES	[Symbol]	[Symbol]
JOINT USE TRENCH - HYDRO/CABLE TV	[Symbol]	[Symbol]	SLOPE AND DIRECTION OF FLOW	[Symbol]	[Symbol]
JOINT USE TRENCH - HYDRO/BELL/CABLE TV	[Symbol]	[Symbol]	OVERLAND FLOW ROUTE ONSITE	[Symbol]	[Symbol]
JOINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS	[Symbol]	[Symbol]	OVERLAND FLOW ROUTE EXTERNAL	[Symbol]	[Symbol]
JOINT USE TRENCH - BELL/CABLE TV/GAS	[Symbol]	[Symbol]	STORMWATER MANAGEMENT		
DUCT CROSSING WITH NUMBER AND TYPE OF DUCTS	[Symbol]	[Symbol]	STORM DRAINAGE AREA BOUNDARY	[Symbol]	[Symbol]
STREETLIGHT (c/w GROUND ROD WHERE REQUIRED)	[Symbol]	[Symbol]	STORM DRAINAGE AREA NUMBER	[Symbol]	[Symbol]
STREETLIGHT DISCONNECT	[Symbol]	[Symbol]	STORM DRAINAGE AREA IN HECTARES	[Symbol]	[Symbol]
HYDRO TRANSFORMER	[Symbol]	[Symbol]	RUN-OFF COEFFICIENT	[Symbol]	[Symbol]
HYDRO SWITCHING KIOSK	[Symbol]	[Symbol]	MISCELLANEOUS		
HYDRO MANHOLE	[Symbol]	[Symbol]	REMOVED	[Symbol]	[Symbol]
HYDRO METER	[Symbol]	[Symbol]	RELOCATED	[Symbol]	[Symbol]
UTILITY POLE AND GUY WIRE	[Symbol]	[Symbol]	ADJUSTED	[Symbol]	[Symbol]
CABLE PEDESTAL	[Symbol]	[Symbol]	LIGHT DUTY PAVEMENT	[Symbol]	[Symbol]
BELL PEDESTAL	[Symbol]	[Symbol]	REFER TO NOTES FOR COMPOSITION		
BELL MANHOLE	[Symbol]	[Symbol]	HEAVY DUTY PAVEMENT	[Symbol]	[Symbol]
BELL GROUND LEVEL BOX	[Symbol]	[Symbol]	REFER TO NOTES FOR COMPOSITION		
ENDWALL	[Symbol]	[Symbol]	ROAD REINSTATEMENT AS PER CITY STANDARD R10	[Symbol]	[Symbol]
COMMUNITY MAILBOX	[Symbol]	[Symbol]	SIDEWALK REINSTATEMENT AS PER CITY STANDARD SC4	[Symbol]	[Symbol]
GAS VALVE	[Symbol]	[Symbol]	PAVEMENT COMPOSITION NOTES		
GAS METER	[Symbol]	[Symbol]	LIGHT DUTY PAVEMENT STRUCTURE (PARKING STALLS)		
TRAFFIC MANHOLE	[Symbol]	[Symbol]	85mm HL3 (PC58-34)		
TRAFFIC HAND HOLE	[Symbol]	[Symbol]	150mm GRANULAR 'A'		
TRAFFIC JOINT USE POLE	[Symbol]	[Symbol]	300mm GRANULAR 'B' TYPE II (OVERBURDEN)		
TRAFFIC MAST ARM	[Symbol]	[Symbol]	OR 200mm GRANULAR 'B' TYPE II (BEDROCK)		
TRAFFIC CONDUIT	[Symbol]	[Symbol]	HEAVY DUTY PAVEMENT STRUCTURE (ROADWAY)		
GEOTECHNICAL			40mm SP12.5mm ASPHALT (PC58-34)		
BOREHOLE	[Symbol]	[Symbol]	50mm SP19.0mm ASPHALT (PC58-34)		
MONITORING WELL	[Symbol]	[Symbol]	150mm GRANULAR 'A'		
CAUTION			400mm GRANULAR 'B' TYPE II (OVERBURDEN)		
<p>THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.</p>			OR 300mm GRANULAR 'B' TYPE II (BEDROCK)		
			<p>REFER TO LEGAL SURVEY PLAN PREPARED BY FARLEY, SMITH & DENIS SURVEYING INC. DATED APRIL 22, 2022.</p> <p>1. ELEVATIONS SHOWN ARE GEODETIC AND ARE REFERRED TO GEODETIC DATUM CGVD-1928 11978.</p> <p>2. ELEVATIONS DERIVED FROM MONUMENT NO. 01919680092 HAVING A PUBLISHED ELEVATION OF 84.082 METRES. LOCATION: ±340 METRES NORTH OF COLONADE ROAD, ±15.3 METRES EAST OF THE EASTERLY FOG LINE ON PRINCE OF WALES DRIVE.</p> <p>3. IT IS THE RESPONSIBILITY OF THE USER OF THIS INFORMATION TO VERIFY THAT THE BENCHMARK HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON THIS DRAWING.</p>		

GENERAL NOTES	STORM SEWER NOTES	DESIGNED BY	DEVELOPER	BASE PLAN	PROJECT	PROJECT NO.
<p>1. ALL WORKS AND MATERIALS SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE.</p> <p>2. THE LOCATION OF UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE LOCATION AND STATUS OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF PLANT AND EQUIPMENT FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES DISTURBED DURING CONSTRUCTION, TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.</p> <p>3. THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONFIRM LOCATIONS AND ELEVATIONS OF EXISTING SERVICES AND STRUCTURES TO BE CONNECTED TO AND EXISTING SERVICES THAT MAY BE DAMAGED OR CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF ANY NEW SEWER, WATER AND/OR STORM WATER WORKS. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND ADDITIONS TO THESE DRAWINGS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER, WHEN NOTED AND BEFORE PROCEEDING WITH CONSTRUCTION WORKS. DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR UNTIL SUCH DISCREPANCIES HAVE BEEN RESOLVED.</p> <p>4. ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE SPECIFIED. ALL DRAWINGS SHOULD NOT BE SCALED BY THE CONTRACTOR. ANY MISSING OR QUESTIONABLE DIMENSIONS ARE TO BE CONFIRMED WITH THE ENGINEER IN WRITING.</p> <p>5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE SAME.</p> <p>6. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS". THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.</p> <p>7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION TO THE SATISFACTION OF THE ENGINEER, THE CITY OF OTTAWA AND THE AUTHORITY HAVING JURISDICTION.</p> <p>8. ANY AREAS BEYOND THE LIMIT OF THE SITE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.</p> <p>9. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON CITY STREETS. ALL CONSTRUCTION SIGNAGE MUST CONFORM TO THE M.T.O. BOOK 7 AND T.A.C. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).</p> <p>10. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.</p> <p>11. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.</p> <p>12. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.</p> <p>13. THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR. AS-BUILT SITE SERVICING & GRADING DRAWINGS SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.</p> <p>14. THE CONTRACTOR WILL BE RESPONSIBLE FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM TRENCH WIDTH, AS SPECIFIED BY OPSD, IS EXCEEDED.</p> <p>15. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH ENGINEER AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING.</p> <p>16. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.</p> <p>17. ALL BOREHOLES SHOWN ON THE DRAWINGS ARE FOR INFORMATION ONLY. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY EXP. SERVICES INC. DATED NOVEMBER 5, 2019.</p> <p>18. THE CONTRACTOR SHALL APPRAISE HISHER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED AND SHALL CARRY OUT THEIR OWN TEST PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND CONDITIONS. THE CONTRACTOR SHALL NOT MAKE ANY CLAIM FOR AN EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.</p> <p>19. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".</p> <p>20. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY FARLEY, SMITH & DENIS LTD. DATED APRIL 18, 2022.</p> <p>21. CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, LANDSCAPE AND LEGAL DRAWINGS.</p> <p>22. ALL NECESSARY CLEARING AND GRUBBING SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT ADMINISTRATOR AND THE CITY OF OTTAWA PRIOR TO ANY TREE CUTTING.</p> <p>23. THE CONTRACTOR IS RESPONSIBLE TO KEEP ROADS CLEAR OF MUD AND DEBRIS.</p>	<p>1. ALL SANITARY SEWER MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).</p> <p>2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.</p> <p>3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B' BEDDING UNLESS OTHERWISE NOTED.</p> <p>4. ALL SANITARY LATERALS ARE TO BE PVC SDR 28, IPEX "RING-TITE" (OR EQUIVALENT), ANY COLOR EXCEPT WHITE AND MARKED WITH A 50mm X 100mm WOODEN MARKER, EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE PAINTED RED.</p> <p>5. SEWER BEDDING AS PER CITY STANDARD S6 & S7. GRANULAR 'A' BEDDING TO BE INCREASED TO 300mm WHERE SEWERS ARE BELOW THE GROUNDWATER TABLE.</p> <p>6. SANITARY SEWER MANHOLES SHALL BE BENCH AS PER OPSD 701.021. SANITARY MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24 AND S25. SAFETY PLATFORMS SHALL BE AS PER OPSD 404.02. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1003.01.</p> <p>7. THE CONTRACTOR SHALL CONDUCT INFILTRATION/EXFILTRATION (AS PER CURRENT OPSS) TESTING ON ALL NEWLY INSTALLED SANITARY SEWERS. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWER INSTALLATION AND VIEWED BY THE ENGINEER.</p> <p>8. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.</p> <p>9. ALL SERVICE CONNECTIONS TO BE CONSTRUCTED AS PER CITY STANDARD S11 & S11.1.</p> <p>10. THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% SPMD.</p> <p>11. ALL SANITARY BUILDING DRAINS TO BE EQUIPPED WITH SANITARY BACKWATER VALVES INSTALLED PER CITY OF OTTAWA STANDARD DRAWING S14.1.</p> <p>12. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.</p> <p>13. MINIMUM SOIL COVER TO BE 2.5m TO PROTECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER CANNOT BE ACHIEVED, EQUIVALENT THERMAL INSULATION TO BE INSTALLED AS PER CITY STANDARD S35.</p> <p>14. CCTV OF THE EXISTING SANITARY LATERAL FOR 288 CARRUTHERS AVE IS REQUIRED TO ACCESS EXISTING CONDITION. THE CCTV REPORT WILL BE SUBMITTED TO THE ENGINEER FOR REVIEW TO DETERMINE IF LATERAL IS ACCEPTABLE FOR RE-USE OR WILL REQUIRE REPLACEMENT TO THE SEWER MAIN.</p>	<p>REV</p> <p>REVISION DESCRIPTION</p> <p>DATE</p> <p>BY</p> <p>APPD</p>	<p>DESIGNED BY</p> <p>DEVELOPER</p> <p>McCormick Park Developments 1600 LAPERRIERE AVENUE, SUITE 205 OTTAWA, ON. K1M 2H9 613.421.1515</p> <p>exp. Services Inc. 1-877-668-1899 T: 613.225.7330 1000 St. Jacques Street, Unit 100 Ottawa, ON K2B 8H6 Canada www.exp.com</p> <p>• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •</p>	<p>SAB</p> <p>BMT</p> <p>BMT</p> <p>BMT</p> <p>SAB</p> <p>BMT</p> <p>SAB</p> <p>BMT</p> <p>BMT</p> <p>BMT</p>	<p>CARRUTHERS AVENUE DEVELOPMENT 266-268 CARRUTHERS OTTAWA, ONTARIO.</p>	<p>OTT-22014656-AG</p> <p>DATE</p> <p>JUNE 2022</p> <p>DRAWING NO.</p> <p>C001</p>