DESCRIPTION	EXISTING	PROPOSED
SITE FEATURES		
PROPERTY LINE		
TOP OF SLOPE		
TERRACING (3:1 TYPICAL)		
${f Q}$ DITCH/SWALE AND DIRECTION OF FLOW		____
EDGE OF SHOULDER		
EDGE OF PAVEMENT		
ହ ROAD/ALIGNMENT		
CHAINLINK FENCE	XX	XX
POST AND RAIL FENCE	OOO	OOO
SIDEWALK (TYPE AS NOTED ON DRAWINGS)		
BARRIER CURB (SC1.1)		
MOUNTABLE CURB (SC1.3)		
DEPRESSED CURB	<i>DC</i>	DC
TACTILE WALKING SURFACE INDICATOR "TWSI" (SC7.3)		
GUARDRAIL	<u> </u> <u> </u>	<u> </u> <u> </u>
JERSEY BARRIERS	++	
BUILDING ENTRY/EXIT WITH RISERS	▼ xR	▼ xR
BUILDING ENTRY/EXIT BARRIER FREE	BF	W BF
BUILDING ENTRY/EXIT OVERHEAD DOOR	\bigtriangledown	\bigtriangledown
POST	POST	© POST

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COMBINATION SEWER STORM SEWER STORM SUBDRAIN STORM CULVERT SANITARY MANHOLE COMBINATION MANHOLE STORM MANHOLE CATCHBASIN MANHOLE CATCHBASIN DOUBLE CATCHBASIN CATCHBASIN ELBOW (S30) CATCHBASIN TEE (S31) CURB INLET CATCHBASIN DITCH INLET CATCHBASIN WATERMAIN IRRIGATION VALVE AND VALVE BOX VALVE AND VALVE CHAMBER FIRE HYDRANT SIAMESE CONNECTION WATER METER REMOTE WATER METER _____ 45' BEND 22.5 BEND 11.25" BEND TEE REDUCER CROSS

DESCRIPTION

SANITARY SEWER

SERVICES AND STRUCTURES

UTILITY AND STRUCTURES HYDRO (OVERHEAD) HYDRO

SIGN

BOLLARD

VEGETATION

POWER	—— P —— P ——
ELECTRICAL	——————————————————————————————————————
BELL (OVERHEAD)	
BELL	———— В ————
CABLE (OVERHEAD)	0C
CABLE TV	C
FIBRE OPTIC	F0
STREETLIGHT	SL
GASMAIN	GG
JOINT USE TRENCH - BELL/CABLE TV	BC
JOINT USE TRENCH - HYDRO/BELL/CABLE TV	HBC
JOINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS	HBCG
JOINT USE TRENCH – BELL/CABLE TV/GAS	BCG
DUCT CROSSING WITH NUMBER AND TYPE OF DUCTS	2H,2C,2B
STREETLIGHT	X→ O LS
STREETLIGHT DISCONNECT	SD
HYDRO TRANSFORMER	
HYDRO SWITCHING KIOSK	\bigcirc
HYDRO MANHOLE	\oplus
HYDRO METER	
UTILITY POLE AND GUY WIRE	(O UP
CABLE PEDESTAL	C
BELL PEDESTAL	B
BELL MANHOLE	B
BELL GROUND LEVEL BOX	GLB
ENDWALL	
COMMUNITY MAILBOX	
GAS VALVE	⊗GV
GAS METER	© _
	⊘тмн
TRAFFIC HAND HOLE	
TRAFFIC JOINT USE POLE	⊚ JUP
TRAFFIC MAST ARM	=O= MAF
TRAFFIC CONDUIT	— т — т —

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GRADING

CURB STOP

WATER WELL

GROUND ELEVATION SWALE ELEVATION TOP OF GRATE ELEVATION TOP OF WALL ELEVATION BOTTOM OF WALL ELEVATION FINISHED FLOOR ELEVATION TOP OF FOUNDATION ELEVATION BASEMENT FLOOR ELEVATION PARKING LEVEL ELEVATION UNDERSIDE OF FOOTING ELEVATION ORIGINAL GROUND ELEVATION TOP OF ROCK ELEVATION CONTOUR LINES SLOPE AND DIRECTION OF FLOW OVERLAND FLOW ROUTE ONSITE OVERLAND FLOW ROUTE EXTERNAL

STORMWATER MANAGEMENT

STORM DRAINAGE AREA BOUNDARY STORM DRAINAGE AREA NUMBER STORM DRAINAGE AREA IN HECTARES RUN-OFF COEFFICENT 5 YEAR PONDING AREA 100 YEAR PONDING AREA

GEOTECHNICAL BOREHOLE

TEST PIT COREHOLE PIEZOMETER MONITORING WELL

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o - z.oz.overani ock.dwg	CAUTION 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							SCALE	BY BY BY BY BY BY BY BY BY BY BY BY BY B	REVIEWED BY	^{CLIENT} 1106 10
Tableexp-64 ences: xref-	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.	REV	REVISION DESCRIPTION	DATE BY	APPD	2 ISSUED FOR REZONING 1 ISSUED FOR R REV REVISION DESCR		MT	BOUNCE OF ONTAN	2020-01-27 DANCE OF ONTARIO	

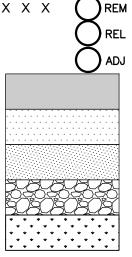
EXISTING

PROPOSED

SASASA	250mmø SAN
EX.300mmø COMB	300mmø COMB
_ <i>EX.375mmø_STM</i> ST	<u>375mmø</u> _STM
EX.150mmø_SUBDRAIN	150mmø_SUBDRAI
EX.600mmø_CULVERT	600mm <u>ø</u> CUL <u>VER</u>
○ EX.SAN	SANMH 100
○ EX.COMB	О СОМВМН 100
○ EX.STM	О STMMH 200
○ ЕХ.СВМН	• СВМН 100
II EX.CB	■ CB1
DDD EX.DCB	DCB1
○ EX.CBE	O CBE
○ EX.CBT	O CBT
EX.CICB	■ CICB 1
III EX.DICB	■ DICB 1
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⊗ V&VC	⊗ V&VC
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DESCRIPTION

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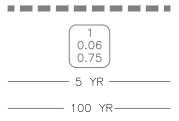


PAVEMENT STRUCTURES

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HEAVY DUTY PAVEMENT STRUC	:TU	RE
(DRIVE LANES/FIRE ROUTES)		
40mm SUPERPAVE 12.5mm 0)R	HL3
50mm SUPERPAVE 19.0mm 0)R	HL8
150mm GRANULAR 'A'		
450mm GRANULAR 'B' TYPE I	I	

X 100.00	X 100.00
X 100.00(S)	X 100.00(S)
T/G=100.00	T/G=100.00
X 100.00 T/W	X 100.00 T/W
X 100.00 B/W	X 100.00 B/W
FF=100.00	FF=100.00
TF=100.00	TF=100.00
BF=100.00	BF=100.00
P1=100.00	P1=100.00
USF=100.00	USF=100.00
<i>OG=100.00</i>	OG=100.00
T/ROCK=100.00	T/ROCK=100.00
100.00	100.00



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GENERAL NOTES

- 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.
- 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.
- 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.
- 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.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE SAME.
- 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.
- 7. 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 JURSIDICTION.
- 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.
- 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. MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST AMENDMENT).
- 10. THE SUPPORT OF ALL UTILITIES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- 11. THERE WILL BE NO SUBSTITUTION OF MATERIALS UNLESS WRITTEN
- APPROVAL BY THE ENGINEER HAS BEEN OBTAINED. 12. EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE SITE.
- 13. THE SITE LAYOUT IS THE RESPONSIBILITY OF THE CONTRACTOR. AS-BUILT SITE SERVICING & GRADING DRAWINGS SHALL BE MAINTAINED ON SITE BY THE CONTRACTOR.
- 14. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT.
- 15. FOR GEOTECHNICAL INFORMATION REFER TO GEOTECHNICAL INVESTIGATION REPORT PREPARED BY EXP SERVICES INC DATED AUGUST 28, 2019, PROJECT NO. OTT-00252625-A0
- 16. THE CONTRACTOR SHALL APPRAISE HIS/HER 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 ANY EXTRA COST DUE TO ANY SUCH GROUND CONDITIONS VARYING FROM THOSE ANTICIPATED BY THE CONTRACTOR.
- 17. DO NOT CONSTRUCT USING DRAWINGS THAT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".
- 18. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY ANIS, O'SULLIVAN, VOLLEBEKK SURVEYING LTD. DATED MAY 1, 2019.
- 19. CIVIL DRAWINGS TO BE READ IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL, LANDSCAPE AND LEGAL DRAWINGS.

SANITARY SEWER NOTES:

- . 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).
- 2. ALL SANITARY SEWERS SHALL BE PVC SDR 35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD 8182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE NOTED.
- 3. SANITARY SEWER TRENCH AND BEDDING SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B BEDDING UNLESS OTHERWISE NOTED.
- 4. 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.
- 5. 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% SPMDD.
- 6. ALL ABANDONED EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATIONS.

- 7. ALL SANITARY BUILDING CONNECTIONS TO BE EQUIPPED WITH A SANITARY BACKWATER VALVE. REFER TO MECHANICAL DRAWINGS.
- 8. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.
- 9. ALL UNDERGROUND PARKING FLOOR DRAINAGE IS TO BE DIRECTED TO THE SANITARY SEWER AS PER THE CITY OF OTTAWA SEWER DESIGN GUIDE LINES, CLAUSE 6.1.10.

STORM SEWER NOTES:

- 1. ALL STORM 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).
- 2. ALL PVC STORM SEWERS ARE TO BE SDR 35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE SPECIFIED.
- THE CONTRACTOR SHALL CONSTRUCT FLEXIBLE STORM 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% SPMDD.
- 4. SEWER BEDDING AS PER CITY STANDARD S6 & S7.
- 5. ALL ABANDONED EXISTING SEWERS TO BE CAPPED AT THE PROPERTY LINE TO THE SATISFACTION OF THE CITY OF OTTAWA'S SEWER OPERATIONS.
- 6. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.
- 7. ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES. REFER TO MECHANICAL DRAWINGS.
- 8. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS AND EXISTING SEWERS CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.

WATERMAIN NOTES:

- 1. ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVICIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
- 2. NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CONNECTIONS BY CITY OF OTTAWA FORCES WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR.
- 3. WATERMAINS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W17, UNLESS OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTECHNICAL ENGINEER.
- 4. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40. ALL ANODES SHALL BE A Z-24-48 AS PER CITY OF OTTAWA STD. W44.
- 5. ALL WATERMAINS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.
- 6. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- 7. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
- 8. WATER METER TO BE INSTALLED AS PER W32.
- 9. INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. W25.2 AND W25, RESPECTIVELY, WHERE WATERMAN COVER IS LESS THAN 2.4m.

ROAD NOTES:

- 1 PAVEMENT REINSTATEMENT FOR SERVICE AND LITUITY CLITS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R10 AND OPSD 509.010, OPSS 310.
- 2. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300mm AROUND ALL STRUCTURES WITHIN PAVEMENT AREA.
- 3. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR MAXIMUM DRY DENSITY.

4. PAVEMENT STRUCTURE:

- PARKING AREAS: - 50mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 150mm GRANULAR "A" CRUSHED LIMESTONE (OPSS 1010) - 300mm GRANULAR "B" TYPE II (OPSS 1010)
- 5. PAVEMENT DESIGN TYPE:
- ACCESS LANES AND HEAVY DUTY AREA: – 40mm SUPERPAVE 12.5 ASPHALTIC CONCRETE
- 50mm SUPERPAVE 19.0 ASPHALTIC CONCRETE
- 150mm GRANULAR "A" CRUSHED LIMESTONE (OPSS 1010) – 450mm GRANULAR "B" TYPE II (OPSS 1010)

100-768 S	CANADA INCORPORATED ST. JOSEPH BOULVEVARD EAU, QC. J8Y 4B8	BASEPLAN SAB DESIGN BMT CHECKED BMT	PROJECT 11061917 CANADA INC RESIDENTIAL DEVELOPMENT 365 FOREST STREET OTTAWA, ONTARIO.	PROJECT No. OTT-252570-A0 SURVEY AOV DATE JAN 2020
exp.	exp Services Inc. t: +1.613.688.1899 f: +1.613.225.7330 2650 Queensview Drive, Unit 100 Ottawa, ON K2B 8H6 Canada www.exp.com • BUILDINGS • EARTH & ENVIRONMENT • ENERGY • • INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •	CAD SAB PROJECT MANAGER BMT APPROVED BMT	NOTES AND LEGEND SHEET	drawing no.