ESCRIPTION	EXISTING	PROPOSED
SITE FEATURES		
ROPERTY LINE		
OP OF SLOPE		
ERRACING (3:1 TYPICAL)		
DITCH/SWALE AND DIRECTION OF FLOW		
DGE OF SHOULDER		
DGE OF PAVEMENT		
ROAD/ALIGNMENT		
HAINLINK FENCE	XX	xx
OST AND RAIL FENCE		<u> </u>
IDEWALK (TYPE AS NOTED ON DRAWINGS)		
ARRIER CURB (SC1.1)		
IOUNTABLE CURB (SC1.3)		
PEPRESSED CURB	DC	
ACTILE WALKING SURFACE INDICATOR "TWSI" (SC7.3)		
GUARDRAIL	II II	II II
ERSEY BARRIERS		
BUILDING ENTRY/EXIT WITH RISERS	▼ xR	▼ ×R
BUILDING ENTRY/EXIT BARRIER FREE	BF	▼ BF
BUILDING ENTRY/EXIT OVERHEAD DOOR		
POST	© POST	© POST
IGN	€ FUST ¢ SIGN	© FOST ∳ SIGN
BOLLARD	© BOLL	© BOLL
/EGETATION	And the	
JTILITY AND STRUCTURES		
IYDRO (OVERHEAD)	OH	OH
IYDRO	———— Н ————	——————————————————————————————————————
OWER	—— P —— P ——	— Р — Р -
LECTRICAL	E	———— E ———
BELL (OVERHEAD)	OB	OB
ELL /	——————————————————————————————————————	———— B ————
ABLE (OVERHEAD)		OC
		C
	C	
ABLE TV	-	
ABLE TV IBRE OPTIC		
CABLE TV IBRE OPTIC STREETLIGHT	FO	SL
CABLE TV IBRE OPTIC STREETLIGHT SASMAIN	FO	SL SL C C
CABLE TV IBRE OPTIC STREETLIGHT GASMAIN OINT USE TRENCH – BELL/CABLE TV	FO	SL
CABLE TV IBRE OPTIC STREETLIGHT GASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV	FO	SL — SL — SL — SL — C — C — C — BC — BC — HBC —
CABLE TV IBRE OPTIC STREETLIGHT GASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS	FO	SL — SL — SL — SL — C — C — C — C — C — BC — — BC — — HBC — — HBC — — HBCG — — — HBCG — — — HBCG — — — — HBCG — — — — HBCG — — — — — HBCG — — — — — — — — HBCG — — — — — — — — — — — — — — — — — — —
CABLE TV IBRE OPTIC STREETLIGHT GASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS	FO	SL — SL — SL — SL — G — G — G — G — G — G — G — G — G —
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS	FO	SL SL G G BC HBC G BCG BCG BCG
ABLE TV BRE OPTIC TREETLIGHT ASMAIN DINT USE TRENCH – BELL/CABLE TV DINT USE TRENCH – HYDRO/BELL/CABLE TV DINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS DINT USE TRENCH – BELL/CABLE TV/GAS UCT CROSSING WITH NUMBER AND TYPE OF DUCTS TREETLIGHT	F0 SL SL SL SL C G G G BC G HBC G HBCG BCG BCG BCG 2H,2C,2B X→ ⊗ O LS	SLSL GG BC HBCG BCG BCG BCG BCG BCG BCG BCG BCG BCG BC
ABLE TV IBRE OPTIC STREETLIGHT GASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT	FO	SLSL G BC HBCC HBCC BCC
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER	F0 SL SL SL SL C G G G HBC G HBCG BCG 2H,2C,2B X O LS D D D	SLSL G BC HBCG HBCG BCG BCG 2H,2C,2B ☆LS SD ↓
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK	F0 SL SL SL SL C G G G BC G HBC G HBCG BCG 2H,2C,2B X O LS 50 ∑ ∑	SLSL GG BCC HBCC HBCC DC BCC DC
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE	F0 SL SL SL SL C C C C BC C HBC C HBCG BCG 2H,2C,2B X O LS SD SD () () () () () () () () () ()	SL SL C C BC HBC G BC BC
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE	F0 SL SL SL SL C C C C BC C HBC C HBC C BCC C 2H,2C,2B X O LS ED D C 0 0 0 0 0 0 0 0 0 0 0 0 0	SLSL
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE HYDRO METER	F0 SL SL SL SL G G BC HBC HBCG HBCG BCG 2H,2C,2B ★ O LS ED D C () () () () () () () () () ()	SLSL
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OUT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE HYDRO METER HILITY POLE AND GUY WIRE FABLE PEDESTAL	F0 SL SL SL SL G G G BC G HBC G HBCG BCG 2H,2C,2B X O LS ED D C 0 € C 0 € C 0 C C C C C C C C C C C C C	SLSL GG BCG HBCG HBCG BCG BCG BCG BCG BCG BCG BCG BCG BCG BCG BCG C ED € € € € € € € € € € € € €
ABLE TV IBRE OPTIC STREETLIGHT ASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE HYDRO METER HTILITY POLE AND GUY WIRE CABLE PEDESTAL	F0 SL SL SL SL C C C C BC C HBC BCC BCC BCC 2H,2C,2B X→ O LS SD N N C OUP C OUP C B	SLSL CC BCC HBCC HBCC BCG BCG BCG BCG BCG BCG BC BC C C E
ABLE TV IBRE OPTIC STREETLIGHT ASMAIN OINT USE TRENCH – BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV OINT USE TRENCH – HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH – BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE HYDRO METER FILL PEDESTAL BELL PEDESTAL HELL MANHOLE	F0 SL SL SL SL C C C BC C HBC BCG BCG 2H,2C,2B X→ O LS D N C N C D M C D M C D D D D D D D D D D D D D	SL SL G G BC HBC HBCG BCG BCG BCG 2H,2C,2B SE SE SE SE SE SE SE O P C B B B
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/OAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/OAS OINT USE TRENCH - BELL/CABLE TV/OAS OINT USE TRENCH - BELL/CABLE TV/OAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO MANHOLE HYDRO METER ITILITY POLE AND GUY WIRE CABLE PEDESTAL BELL PEDESTAL BELL MANHOLE HELL GROUND LEVEL BOX	F0 SL SL SL SL C C C C BC C HBC C HBC C BCC C D C C C C C C C C C C C C C	SL SL G G BC HBC HBCG BCG BCG BCG 2H,2C,2B S SE S S
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE HYDRO METER ITILITY POLE AND GUY WIRE SABLE PEDESTAL WELL PEDESTAL WELL GROUND LEVEL BOX NDWALL	F0 SL SL SL SL G G G G BCG HBCG BCG 2H,2C,2B X O LS E D C C C B C B C B C B C B C B C B C C C C C C C C C C C C C	SL SL G G BC HBC HBCG BCG BCG BCG BCG BCG Image: State of the state o
ABLE TV IBRE OPTIC STREETLIGHT ASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OUT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO METER HYDRO METER HYDRO METER ABLE PEDESTAL ABLE PEDESTAL HELL MANHOLE HELL GROUND LEVEL BOX HYDWALL COMMUNITY MAILBOX	F0 SL SL SL SL G G G BCG HBCG HBCG BCG 2H,2C,2B ★ O LS ED ED C O P € C D C D C D C D C D C D C D C D C D C D C C C C C C C C C C C C C	SL SL G G BC HBCG HBCG BCG BCG BCG SE SE
ABLE TV IBRE OPTIC STREETLIGHT SASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/OAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/OAS OINT USE TRENCH - BELL/CABLE TV/OAS OINT USE TRENCH - BELL/CABLE TV/OAS OUT CROSSING WITH NUMBER AND TYPE OF DUCTS STREETLIGHT STREETLIGHT STREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO MANHOLE HYDRO METER STILITY POLE AND GUY WIRE SABLE PEDESTAL SELL PEDESTAL SELL GROUND LEVEL BOX NDWALL COMMUNITY MAILBOX SAS VALVE	F0 SL SL SL SL G G G G BC G HBC G HBC G BCG 2H,2C,2B X O LS E C D C D C D C D C D C D C D C D C D C D C C D C C C C C C C C C C C C C	
ABLE TV IBRE OPTIC ITREETLIGHT ASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OUCT CROSSING WITH NUMBER AND TYPE OF DUCTS ITREETLIGHT ITREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE HYDRO METER ITLITY POLE AND GUY WIRE ABLE PEDESTAL BELL PEDESTAL BELL GROUND LEVEL BOX INDWALL COMMUNITY MAILBOX AS VALVE AS METER	F0 SL SL SL SL G G G BCG HBCG HBCG BCG 2H,2C,2B X O LS E D C D C E B C C B C D C B C C B C C C C C C C C C C C C C	
ABLE TV IBRE OPTIC ITREETLIGHT ASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT OINT MALBOX AS VALVE CAS METER RAFFIC MANHOLE	F0 SL SL SL SL C C C BC C HBC C HBC C BCC C 2H,2C,2B ★ O LS D C D C D C D C D C D C D C D C D C D C D C D C D C D C C D C C D C C C C C C C C C C C C C	SL SL G G BCG HBCG HBCG BCG BCG BCG Image: State of the state of t
ABLE TV IBRE OPTIC ITREETLIGHT ASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OUT CROSSING WITH NUMBER AND TYPE OF DUCTS ITREETLIGHT ITREETLIGHT DISCONNECT HYDRO TRANSFORMER HYDRO SWITCHING KIOSK HYDRO MANHOLE HYDRO METER ITLITY POLE AND GUY WIRE ABLE PEDESTAL HELL GROUND LEVEL BOX HYDWALL COMMUNITY MAILBOX AS VALVE AS METER RAFFIC MANHOLE RAFFIC MANHOLE RAFFIC MANHOLE	F0 SL SL SL SL G G G BCG HBCG HBCG BCG 2H,2C,2B ★ O LS E D C E C E B C C D C E B C C C B C C C C C C C C C C C C C	SL SL C C BC HBCG HBCG BCG BCG BCG ID ID
ABLE TV IBRE OPTIC ITREETLIGHT ASMAIN OINT USE TRENCH - BELL/CABLE TV OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS OINT USE TRENCH - BELL/CABLE TV/GAS OINT OINT MALBOX AS VALVE CAS METER RAFFIC MANHOLE	F0 SL SL SL SL G BC G HBCG HBCG BCG DLS S D C C B C B C B C B C B C C B C C C C C C C C C C C C C	

DESCRIPTION

SANITARY SEWER

GRADING

GROUND ELEVATION SWALE ELEVATION AOV TOPO TOP OF WALL 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 EMERGANCY 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

				7	REVISED PER CITY COMMENTS	09/12/22	SAB E	BMT SCALE	DESIGNED BY	REVIEWED BY	CLIENT
방문 THE POSITION OF ALL POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER				6	REVISED PER CITY COMMENTS	17/11/22	AC E	ЗМТ			1106
의 CONDUTS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES 위험 중 AND STRUCTURES IS NOT NECESSARILY	12 REVISED F	PER CITY COMMENTS 16/02/24	AC BMT	5	REVISED PER CITY COMMENTS	15/09/22	AC E	ЗМТ			10
원드 및 SHOWN ON THE CONTRACT DRAWINGS, AND	11 REVISED F	PER CITY COMMENTS 19/12/23	AC BMT	4	REVISED PER CITY COMMENTS	10/12/21	AC	JD			
WHERE SHOWN, THE ACCURACY OF THE	10 RESUE	UBMITTED TO CITY 30/10/23	AC BMT	3	REVISED PER CITY COMMENTS	27/05/21	AC E	BMT ^{NORTH}			<u>.</u>
ာမ္ကိုတ္ခ်ိဳမ်ိဳး STRUCTURES IS NOT GUARANTEED. BEFORE မိုက္က်မ္က်ိဳး STARTING WORK, DETERMINE THE EXACT	9 REVISED	ED PER ARCH PLAN 11/08/23	AC BMT	2 15	SSUED FOR REZONING APPLICATION	27/01/20	MZG E	ЭМТ			
家語語 LOCATION OF ALL SUCH UTILITIES AND 真認語語 STRUCTURES AND ASSUME ALL LIABILITY FOR	8 REVISED F	PER CITY COMMENTS 06/06/23	AC BMT	1	ISSUED FOR REVIEW	12/09/19	SAB E	ВМТ			
E S E DAMAGE TO THEM.	REV REVISI	SION DESCRIPTION DATE	BY APPD	REV	REVISION DESCRIPTION	DATE	BY A	PPD			

EXISTING

PROPOSED



LAISTING	FNOFUSLD
	250mmø SAN
EX.300mmø COMB	300mmø COMB
st	375mmø STM
STSTST	150mmø SUBDRAIN
EX.600mmø_CULVERT	600mmø_CUL <u>VER</u> T
○ <i>EX.SAN</i>	SANMH 100
○ <i>EX.COMB</i>	Осомвин 100
○ EX.STM	О STMMH 200
○ ЕХ.СВМН	СВМН 100
III EX.CB	_ ■ CB1
IIII EX.DCB	DCB1
o ex.cbe	O CBE
○ <i>EX.CBT</i>	O CBT
II EX.CICB	■ CICB 1
III EX.DICB	■ DICB 1
200mmø_WATERMAIN	200mmø_WATERMAIN
IR IR	IR IR
⊗ V&VB	⊗ V&VB
⊗ V&VC	⊗ ∨&∨C
- Ó - FH	-Ó-FH
Ƴsc	Ƴsc
M	M
RM	RM
∼ ₁ 45 °	<u>ત્</u> ય 45 '
⊷ 22*	~ 22*
ы 11 °	м 11 °
卉 200X150 TEE	퍼 200X150 TEE
⊳200X100 RED	▷200X100 RED
⊕300X200 CROSS	⊕300X200 CROSS
⊗ CS	● CS
⊗ CS	● CS
⊗ CS ®	● CS ®
⊗ CS ®	• CS © X 100.00
⊗ CS ® X 100.00 X 100.00(S)	• CS © X 100.00
⊗ CS ® X 100.00 X 100.00(S) X 100.00*	• CS © X 100.00 X 100.00(S)
⊗ CS (************************************	● CS ♥ X 100.00 X 100.00(S) T/G=100.00
⊗ CS	● CS
⊗ CS	• CS
⊗ CS	• CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00 TF=100.00	• CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00 TF=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00 TF=100.00 BF=100.00	• CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00 TF=100.00 BF=100.00
<pre></pre>	• CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00 TF=100.00 BF=100.00 P1=100.00
<pre></pre>	• CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00 TF=100.00 BF=100.00 P1=100.00 USF=100.00
<pre></pre>	• CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 P1=100.00 USF=100.00 OG=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 TF=100.00 BF=100.00 DIF=100.00 0G=100.00 T/ROCK=100.00	• CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 P1=100.00 USF=100.00 OG=100.00 T/ROCK=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 BF=100.00 USF=100.00 0G=100.00 T/ROCK=100.00 100.00	 CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 P1=100.00 USF=100.00 OG=100.00 T/ROCK=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 BF=100.00 USF=100.00 0G=100.00 T/ROCK=100.00 100.00	 CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 P1=100.00 USF=100.00 OG=100.00 T/ROCK=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 BF=100.00 USF=100.00 0G=100.00 T/ROCK=100.00 100.00	 CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 P1=100.00 USF=100.00 OG=100.00 T/ROCK=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 BF=100.00 USF=100.00 0G=100.00 T/ROCK=100.00 100.00	 CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 P1=100.00 USF=100.00 OG=100.00 T/ROCK=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 BF=100.00 USF=100.00 0G=100.00 T/ROCK=100.00 100.00	 CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 P1=100.00 USF=100.00 OG=100.00 T/ROCK=100.00
⊗ CS X 100.00 X 100.00(S) X 100.00* T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 BF=100.00 USF=100.00 0G=100.00 T/ROCK=100.00 100.00	 CS X 100.00 X 100.00(S) T/G=100.00 X 100.00 T/W X 100.00 T/W X 100.00 B/W FF=100.00 FF=100.00 BF=100.00 P1=100.00 USF=100.00 OG=100.00 T/ROCK=100.00
\otimes CS \times 100.00 X 100.00(S) X 100.00 X T/G = 100.00 X 100.00 X X 100.00 B/W FF = 100.00 FF = 100.00 BF = 100.00 USF = 100.00 C/ROCK = 100.00 1/ROCK = 100.00	• CS × 100.00 × 100.00(S) T/G=100.00 × 100.00 T/W × 100.00 B/W FF=100.00 FF=100.00 BF=100.00 USF=100.00 0G=100.00 T/ROCK=100.00 100.00 100.00
\otimes CS \times 100.00 \times 100.00(S) \times 100.00 * T/G = 100.00 \times 100.00 T/W \times 100.00 B/W FF = 100.00 FF = 100.00 P1 = 100.00 USF = 100.00 C = 100.00 T/ROCK = 100.00	• CS × 100.00 × 100.00(S) T/G=100.00 × 100.00 T/W × 100.00 B/W FF=100.00 FF=100.00 BF=100.00 DG=100.00 CG=100.00 T/ROCK=100.00 100.00

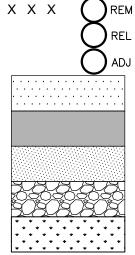
 — 5 YR —
 — 100 YR—

ө-вн	- Ө-вн
TP	🛱 ТР
ф сн	-ф- сн
I PIZ	ф PIZ
<u>→</u> ww	⊕м₩

_____ 100 YR_____

DESCRIPTION

MISCELLANEOUS	
REMOVED	2
RELOCATED	
ADJUSTED	
PAVEMENT OVER PARKING GARAGE REFER TO NOTES FOR COMPOSITION	
PAVEMENT OVER EARTH REFER TO NOTES FOR COMPOSITION	
ROAD REINSTATEMENT AS PER CITY STANDARD R10	
RIP-RAP AS PER OPSD 810.010	
LANDSCAPE REINSTATEMENT	



PAVEMENT STRUCTURE: HEAVY DUTY PAVEMENT STRUCTURE AREAS OVER PARKING STRUCTURES: 40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRETE 50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRETE 150mm BASE – OPSS GRANULAR A CRUSHED STONE 100mm SUBBASE – OPSS GRANULAR B TYPE II BELOW GRANULAR B REFER TO ARCHITECTURAL PLANS

> HEAVY DUTY PAVEMENT STRUCTURE AREAS OVER EARTH: 40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRETE 50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRETE 150mm BASE – OPSS GRANULAR A CRUSHED STONE 450mm SUBBASE – OPSS GRANULAR B TYPE II

SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANUALR B TYPE I OR II

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
- 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 JUNE 14, 2021 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".
- 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.

<u>SANITARY SEWER NOTES:</u>

ON SITE BY THE CONTRACTOR.

- 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 B182.2 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. BENCHING IN SANITARY MANHOLES TO BE INSTALLED IN SANITARY MANHOLES AS PER OPSD 701.021
- 9. WITHIN THE FROST ZONE, THE BACKFILL IN THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE DIFFERENTIAL FROST HEAVING IN THE SUBGRADE.
- 10. 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.
- 3. 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 AND INSULATION IS REQUIRED WHERE COVER IS LESS THAN 2.0m.
- 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 PVC WATERMAIN SHALL BE PVC DR18 IN ACCORDANCE WITH AWWA. C-900 CLASS 150 OR PVCO IN ACCORDANCE WITH AWWA C-909, WITH AWWA/CSA PRESSURE RATING OF 235 PSI (1620 kPa).
- 2. 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).
- 3. 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.
- 4. 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.
- 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.
- 6. ALL WATERMAINS TO BE INSTALLED AT MINIMUM COVER OF 2.4m. 7. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT
- RECOMMENDED BY THE MANUFACTURER. 18. FOR TOPOGRAPHICAL INFORMATION REFER TO PLAN PREPARED BY ANIS, 8. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.
 - 9. WATER METER TO BE INSTALLED AS PER W32.
 - 10. 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.
 - 11. WATERMAIN TO BE BLANKED AT MAIN, NOT AT PROPERTY LINE.

12. ALL FIRE HYDRANTS TO BE INSTALLED IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W18.

ROAD NOTES: 1. PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS 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. FOR PAVEMENT STRUCTURE DETAILS REFER TO LEGEND

D61917 CANADA INCORPORATED 100–768 ST. JOSEPH BOULVEVARD GATINEAU, 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.	