DESCRIPTION SITE FEATURES PROPERTY LINE TOP OF SLOPE TERRACING (3:1 TYPICAL) © DITCH/SWALE AND DIRECTION OF FLOW EDGE OF SHOULDER EDGE OF PAVEMENT © ROAD/ALIGNMENT CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3) DEPRESSED CURB	EXISTING	PROPOSED	DESCRIPTION SERVICES AND STRUCTURES SANITARY SEWER COMBINATION SEWER STORM SEWER	EXISTING	PROPOSED 250mmø SAN 300mmø COMB	DESCRIPTION MISCELLANEOUS REMOVED X X X	2. THE LOCATION OF UTILITIES IS APPROXIMA THE MUNICIPAL AUTHORITIES AND UTILITY LOCATION AND STATUS OF UTILITIES AND S FROM DAMAGE. THE CONTRACTOR SHALL IS	ORM TO THE LATEST REVISIONS OF THE STANDARDS AND SPECIFICATIONS OF THE TANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS), WHERE APPLICABLE. ATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF PLANT AND EQUIPMENT BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES HE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.	 ALL STORM SERVICES TO BE EQUIPPED WITH APPROVED BACKWATER VALVES. STORM MANHOLE FRAME AND COVERS SHALL BE AS PER CITY OF OTTAWA STD. S24, S24.1 AND S25. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02. 	
PROPERTY LINE TOP OF SLOPE TERRACING (3:1 TYPICAL) © DITCH/SWALE AND DIRECTION OF FLOW EDGE OF SHOULDER EDGE OF PAVEMENT © ROAD/ALIGNMENT CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)			SANITARY SEWER COMBINATION SEWER				THE MUNICIPAL AUTHORITIES AND UTILITY LOCATION AND STATUS OF UTILITIES AND S FROM DAMAGE. THE CONTRACTOR SHALL I	COMPANIES CONCERNED. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF PLANT AND EQUIPMENT BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES	12. SAFETY PLATFORMS SHALL BE IN ACCORDANCE WITH OPSD 404.02.	<u>.</u>
TOP OF SLOPE TERRACING (3:1 TYPICAL) © DITCH/SWALE AND DIRECTION OF FLOW EDGE OF SHOULDER EDGE OF PAVEMENT © ROAD/ALIGNMENT CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)			COMBINATION SEWER			REMOVED X X X	FROM DAMAGE. THE CONTRACTOR SHALL I	BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ANY SERVICES OR UTILITIES		
TERRACING (3:1 TYPICAL) © DITCH/SWALE AND DIRECTION OF FLOW EDGE OF SHOULDER EDGE OF PAVEMENT © ROAD/ALIGNMENT CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)				EX.300mmø COMB	300mmø COMB	—	DISTURBED DURING CONSTRUCTION, TO THE	HE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION.	40. PRODUCTURES SULL TO USE THE SULL TO USE TH	
© DITCH/SWALE AND DIRECTION OF FLOW EDGE OF SHOULDER EDGE OF PAVEMENT © ROAD/ALIGNMENT CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)			STORM SEWER			RELOCATED	THE CONTRACTOR CHALL VERIEV THE LOC	ATION AND ELEVATION OF EVICTING CEDVICES DRIOD TO ANY CONSTRUCTION	13. DROP STRUCTURES SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA SPECIFICATIONS AND OPSD 1	1003.01.
EDGE OF SHOULDER EDGE OF PAVEMENT © ROAD/ALIGNMENT CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)		_··_·		ststst	375mmø STM	ADJUSTED	ADJ THE CONTRACTOR SHALL CONFIRM LOCAT	ATION AND ELEVATION OF EXISTING SERVICES PRIOR TO ANY CONSTRUCTION. IONS AND ELEVATIONS OF EXISTING SERVICES AND STRUCTURES TO BE IHAT MAY BE DAMAGED OR CAUSE CONFLICTS PRIOR TO CONSTRUCTION OF ANY	14. STORM SEWER MANHOLES SERVING LOCAL SEWERS LESS THAN 900mm SHALL BE CONSTRUCTED W STORM SEWERS 900mm AND OVER USE BENCHING IN ACCORDANCE WITH OPSD 701.021.	VITH A 300m
EDGE OF PAVEMENT © ROAD/ALIGNMENT CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)			STORM SUBDRAIN	EX.150mmø_SUBDRAIN	150mmø SUBDRAIN	HEAVY DUTY PAVEMENT OVER EARTH REFER TO NOTES FOR COMPOSITION	NEW SEWER, WATER AND/OR STORM WATE	ER WORKS. ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED IN THE FIELD BY FOR CONSTRUCTION. ANY DISCREPANCIES, INTERPRETATIONS, CHANGES AND	15. SINGLE AND DOUBLE CATCHBASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S1. AND	D OPSD 705
© ROAD/ALIGNMENT CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)			STORM CULVERT	EX.600mmø CUL <u>VERT</u>	6 <u>00m</u> m <u>ø C</u> UL <u>VER</u> T	HEAVY DUTY PAVEMENT OVER PARKING STRUCTURE	PROCEEDING WITH CONSTRUCTION WORK	BROUGHT TO THE ATTENTION OF THE ENGINEER, WHEN NOTED AND BEFORE S. DO NOT CONTINUE CONSTRUCTION IN AREAS WHERE DISCREPANCIES APPEAR	RESPECTIVELY. FRAMES AND GRATE SHALL BE AS PER CITY OF OTTAWA STD. S19 FOR REAR LOT CA STREET CATCHBASINS.	
CHAINLINK FENCE POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)			SANITARY MANHOLE	○ EX. SAN	SANMH 100	REFER TO NOTES FOR COMPOSITION	UNTIL SUCH DISCREPANCIES HAVE BEEN R		16. CURB INLET TYPE CATCH BASIN (CICB) SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. S3. AN	AND GRATE
POST AND RAIL FENCE SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)			COMBINATION MANHOLE	○ EX.COMB	○ COMBMH 100	LIGHT DUTY PAVEMENT OVER EARTH REFER TO NOTES FOR COMPOSITION	SPECIFIED. ALL DRAWINGS SHOULD NOT BI	ZE METRIC UNITS. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE E SCALED BY THE CONTRACTOR. ANY MISSING OR QUESTIONABLE DIMENSIONS TO BE AN AMOUNT OF THE CONTRACTOR.	PER CITY OF OTTAWA STD. S22 AND S23, UNLESS OTHERWISE NOTED.	
SIDEWALK (TYPE AS NOTED ON DRAWINGS) BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)	XX	XX	STORM MANHOLE	○ EX.STM	O STMMH 200	LIGHT DUTY PAVEMENT OVER PARKING STRUCTURE	ARE TO BE CONTINUED WITH THE ENGINEE		 SINGLE AND DOUBLE CATCHBASIN LEADS SHALL BE 200mm AND 250mmØ (MIN) RESPECTIVELY, 1.0% OTHERWISE NOTED. 	SLOPE (MIN
BARRIER CURB (SC1.1) MOUNTABLE CURB (SC1.3)			STORM MANHOLE C/W ICD	♠ EX.STM		REFER TO NOTES FOR COMPOSITION		E FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF THE SAME.	18. ALL CATCHBASIN MANHOLES SHALL HAVE SUMPS WITH 300mm DEPTH, UNLESS OTHERWISE NOTED.	<i>)</i> .
MOUNTABLE CURB (SC1.3)			CATCHBASIN MANHOLE	○ EX.CBMH	■ CBMH 100	ROAD REINSTATEMENT AS PER CITY STANDARD R10	FOR CONCERNICATION PROJECTOR THE CENT	RDANCE WITH THE "OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS ERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN	19. ALL CATCHBASINS SHALL HAVE SUMPS OF 600mm DEPTH, UNLESS OTHERWISE NOTED.	
, ,			CATCHBASIN	■ EX.CB	■ CB1	RIP-RAP AS PER OPSD 810.010	THE ACT.	CALL EVOLVATION PACKELL AND DEINOTATEMENT OF ALL ADEAD DISTURDED	20. INSTALL 6.0m OF 100mmØ SUBDRAIN AT EACH ROADWAY CATCH-BASIN PER CITY DETAIL R1. SUBDRA	AINS ARE TO
DEPRESSED CURB			CATCHBASIN C/W ICD	■ EX.CB	■ CB1	CONCRETE	DURING CONSTRUCTION TO THE SATISFAC	R ALL EXCAVATION, BACKFILL AND REINSTATEMENT OF ALL AREAS DISTURBED TION OF THE ENGINEER, THE CITY OF OTTAWA AND THE AUTHORITY HAVING	INSTALLED ON THE UPSTREAM SIDE OF THE CATCHBASINS ONLY.	
		<u> </u>	DOUBLE CATCHBASIN	■ EX.DCB	■■ DCB1	* * * * * *	4	E DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ORIGINAL	21. CONTRACTOR SHALL ENSURE THAT CATCHBASINS ARE INSTALLED AT THE LOW POINT OF SAG CURB	3 WORKS.
TACTILE WALKING SURFACE INDICATOR "TWSI" (SC7.3)			CATCHBASIN ELBOW (S30)	○ <i>EX.CBE</i>	O CBE	LANDSCAPE	* * CONDITION OF PETTER TO THE CATIOFACT	ION OF THE AUTHORITY HAVING JURISDICTION AT THE CONTRACTOR'S EXPENSE.	22. THE STORM SEWER CLASSES HAVE BEEN DESIGNED BASED ON BEDDING CONDITIONS SPECIFIED. W TRENCH WIDTH IS EXCEEDED, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ADDITIONAL BED	EDDING, A DI
GUARDRAIL			CATCHBASIN TEE (S31)	O EX.CBT	O CBT			HE CITY OF OTTAWA REQUIREMENTS FOR TRAFFIC CONTROL WHEN WORKING ON GE MUST CONFORM TO THE M.T.O. BOOK 7 AND T.A.C MANUAL OF UNIFORM	TYPE OF BEDDING OR A HIGHER PIPE STRENGTH AT HIS OWN EXPENSE AND SHALL ALSO BE RESPONTEMPORARY AND/OR PERMANENT REPAIRS MADE NECESSARY BY THE WIDENED TRENCH.	NSIBLE FOR
JERSEY BARRIERS			CURB INLET CATCHBASIN	□ EX.CICB	■ CICB 1		TRAFFIC CONTROL DEVICES (LATEST AMEN	DMENT).	23. THE CONTRACTOR SHALL CONDUCT CCTV INSPECTION OF ALL NEWLY INSTALLED STORM SEWERS A CONNECTED TO. THE TEST SHALL BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.	AND EXISTI
BUILDING ENTRY/EXIT WITH RISERS	▼ xR	▼xR	DITCH INLET CATCHBASIN	■ EX.DICB	■ DICB 1	CEDVICING TRENCHES	 THE SUPPORT OF ALL UTILITIES SHALL BE I JURISDICTION. 	IN ACCORDANCE WITH THE REQUIREMENTS OF THE AUTHORITY HAVING		
BUILDING ENTRY/EXIT BARRIER FREE	₩BF	▼ BF	WATERMAIN	200mmø_WATERMAIN	200mmø WATERMAIN	SERVICING TRENCHES	11. THERE WILL BE NO SUBSTITUTION OF MATE	ERIALS UNLESS WRITTEN APPROVAL BY THE ENGINEER HAS BEEN OBTAINED.	WATERMAIN NOTES	
BUILDING ENTRY/EXIT OVERHEAD DOOR	\bigvee	∇	IRRIGATION	IR IR	IR IR	1-100mm STORM SERVICE (PVC SDR28) 1-19mm WATER SERVICE (TYPE 'K' COPPER OR PEX PIPE) TYPE	'A' 12. EXCESS EXCAVATED MATERIAL SHALL BE F	DEMOVED EDOM THE SITE	 ALL WATERMAIN MATERIALS AND INSTALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE SPECIFICATIONS OF THE CITY OF OTTAWA, ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND 	
POST	⊚ POST	⊚ POST	VALVE AND VALVE BOX	⊗ V&VB	⊗ V&VB	1-135mm SANITARY SERVIČE (PVC SDR28)	12. EXCESS EXCAVATED WATERIAL STIALE BET		(OPSS).	
SIGN	SIGN	> SIGN	VALVE AND VALVE CHAMBER	⊗ v&vc	⊗∨&VC	2-100mm STORM SERVICE (PVC SDR28) 2-19mm WATER SERVICE (TYPE 'K' COPPER OR PEX PIPE) TYPE	MAINTAINED ON SITE BY THE CONTRACTOR	OF THE CONTRACTOR. AS-BUILT SITE SERVICING & GRADING DRAWINGS SHALL BE R.	 NO WORK SHALL COMMENCE UNLESS A CITY WATER WORKS INSPECTOR IS ON SITE. WATERMAIN CO OTTAWA FORCES WITH ALL EXCAVATION BACKFILL AND ROAD REINSTATEMENT BY CONTRACTOR. 	ONNECTIO
BOLLARD	⊕ BOLL	© BOLL	FIRE HYDRANT	-Ó-FH	- Ó -FH	2-135mm SANITARY SERVICE (PVC SDR28)		FOR ADDITIONAL BEDDING OR ADDITIONAL STRENGTH PIPE IF THE MAXIMUM EXCEEDED.	3. ALL PVC WATERMAIN SHALL BE PVC DR18 IN ACCORDANCE WITH AWWA. C-900, CLASS 150 OR PVCO) IN ACCOR
VEGETATION			SIAMESE CONNECTION	Ƴsc	Ƴsc			S SHALL BE COMPLETED AY THE CONTRACTOR. REVIEW WITH ENGINEER AND THE	AWWA C-909, WITH AWWA/CSA PRESSURE RATING OF 235 PSI (1620 kPa) OR APPROVED EQUAL.	
			WATER METER	\bigcirc	M		CITY OF OTTAWA PRIOR TO ANY TREE CUT		4. WATERMAINS TRENCH AND BEDDING SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD OTHERWISE SPECIFIED. BEDDING AND COVER MATERIAL SHALL BE SPECIFIED BY PROJECT GEOTEC	,
			REMOTE WATER METER	RM	RM	DAVING OTBUGGET CONTRACTOR	 ALL EDGES OF DISTURBED PAVEMENT SHA PAVEMENT. 	ILL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW	5. ALL PVC WATERMAINS SHALL BE INSTALLED WITH A 10 GAUGE STRANDED COPPER TWU OR RWU TRA	RACER WIR
			45° BEND	< _→ 45°	ن 45°	PAVING STRUCTURE COMPOSITION	17. ALL BOREHOLES SHOWN ON THE DRAWING	SS ARE FOR INFORMATION ONLY. FOR GEOTECHNICAL INFORMATION REFER TO	ACCORDANCE WITH CITY OF OTTAWA STD. W36.	
UTILITY AND STRUCTURES			22.5° BEND	⊱ ₁ 22°	~ 22*	STREETS 1, 2, 3 AND 4		REPARED BY EXP. SERVICES INC, DATED MAY 14, 2021.	6. WATER SERVICES ARE TO BE TYPE K SOFT COPPER, OR PEX TUBING AS PER CITY OF OTTAWA STD. \ OTHERWISE SPECIFIED. ALL WATER SERVICES CROSSING SEWERS ARE TO BE INSTALLED AS PER CI	CITY OF OT
JOINT UTILITY OVERHEAD LINE			11.25° BEND	<i>⊢</i> ₁11°	⊢11°	HEAVY DUTY PAVEMENT STRUCTURE FOR NEW ACCESS LANES SHALL	BE AS AND SHALL CARRY OUT THEIR OWN TEST F	ER SELF OF ALL SURFACE AND SUBSURFACE CONDITIONS TO BE ENCOUNTERED PITS AS REQUIRED TO MAKE THEIR OWN INDEPENDENT ASSESSMENT OF GROUND	W38. WATER SERVICES SHALL BE MARKED WITH A "50mm X IOOmm", EXTENDING FROM THE INVERT T PAINTED BLUE. STAND POSTS/SHUT-OFFS SHALL BE INSTALLED AT THE PROPERTY LINE.	10 1.0m AB
HYDRO (OVERHEAD)	——————————————————————————————————————	——————————————————————————————————————	TEE	∴ 200X150 TEE	т 200X150 TEE	FOLLOWS: 40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRET	CONDITIONS, THE CONTRACTOR SHALL NO	OT MAKE ANY CLAIM FOR ANY EXTRA COST DUE TO ANY SUCH GROUND	7. CATHODIC PROTECTION IS REQUIRED ON ALL METALLIC FITTINGS AS PER CITY OF OTTAWA STD. W40	₊0 AND W42
HYDRO	————Н————	———н———	REDUCER	>200X100 RED	▶200X100 RED	50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRET	-	AT ARE NOT MARKED "ISSUED FOR CONSTRUCTION".	8. VALVE BOXES SHALL BE INSTALLED AS PER CITY OF OTTAWA DETAIL W24.	
			CROSS	⊕300X200 CROSS	⊕300X200 CROSS	150mm BASE – OPSS GRANULAR A CRUSHED STONE 400mm SUBBASE – OPSS GRANULAR B TYPE II	20. FOR TOPOGRAPHICAL INFORMATION REFE	R TO PLAN PREPARED BY FAIRHALL MOFFAT WOODLAND LIMITED. DATED	9. ALL FIRE HYDRANTS TO BE INSTALLED AS PER CITY STANDARD W19 AND LOCATED AS PER CITY STAN	ANDARD W
POWER	— P — P —	— P — P —	CURB STOP	\otimes	•	SUBGRADE - EITHER FILL, IN SITU SOIL OR OPSS GRANUALR B TYP	E I OR II JANUARY 14, 2020.		CITY STANDARD CROSS SECTIONS.	
ELECTRICAL PLANTS OF THE PROPERTY OF THE PROPE	E	E	WATER WELL	(®	BLOCKS 27 AND 47	21. CIVIL DRAWINGS TO BE READ IN CONJUNCT	TION WITH ARCHITECTURAL, LANDSCAPE AND LEGAL DRAWINGS.	10. ALL WATERMAINS TO BE INSTALLED AT MINIMUM COVER OF 2.4m.	
BELL (OVERHEAD)	OB	OB				HEAVY DUTY PAVEMENT STRUCTURE FOR NEW ACCESS LANES OVER		S SHALL BE COMPLETED BY THE CONTRACTOR. REVIEW WITH CONTRACT	11. THRUST BLOCKS AND RESTRAINT AS PER CITY OF OTTAWA DWGS: W25.3 AND W25.4, W25.5 AND W25	
BELL	———В———	————B————	ODADINO			SHALL BE AS FOLLOWS: 40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRE	ADMINISTRATOR AND THE CITY OF OTTAWA	PRIOR TO ANY TREE CUTTING.	12. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECT HALF THAT RECOMMENDED BY THE MANUFACTURER.	ION USED
CABLE (OVERHEAD)		oc	GRADING			50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRET	23 STREET LIGHTING SHALL BE TO CITY OF OT	rawa standards.	13. DISINFECTION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDA	ARDS.
CABLE TV	C	c	GROUND ELEVATION	X 100.00	X 100.00	150mm BASE — OPSS GRANULAR A CRUSHED STONE 400mm SUBBASE — OPSS GRANULAR B TYPE II	SANITARY SEWER NOTES		14. WATER METERS TO BE INSTALLED AS PER W30 FOR WATER SERVICES.	
FIBRE OPTIC	F0	F0	SWALE ELEVATION	X 100.00(S)	X 100.00(S)	SUBGRADE — EITHER FILL, IN SITU SOIL OR OPSS GRANUALR B TYP	 ALL SANITARY SEWER MATERIALS AND INS 	TALLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS	15. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY CAPS, PLUGS AND BLOW-OFFS AND NOZZLES R	REQUIRED
STREETLIGHT	SL	SL	TOP OF GRATE ELEVATION	T/G=100.00	T/G=100.00	LIGHT DUTY PAVEMENT STRUCTURE FOR NEW PARKING OVER EARTH AS FOLLOWS:	SHALL BE (OPSS).	JN TARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS	AND DISINFECTION OF THE WATERMAN.	
GASMAIN	G		TOP OF WALL ELEVATION	X 100.00 T/W	X 100.00 T/W	65mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRET	E 2. ALL SANITARY SEWERS SHALL BE PVC SDR AMENDMENT, UNLESS OTHERWISE NOTED.	35, IPEX "RING-TITE" (OR EQUIVALENT), AS PER CSA STANDARD 8182.2 OR LATEST	 INSULATION FOR WATERMAIN CROSSING OVER AND BELOW SEWER SHALL BE IN ACCORDANCE WITH W25.2 AND W25, RESPECTIVELY, WHERE WATERMAN COVER IS LESS THAN 2.4m. 	H CITY OF
JOINT USE TRENCH - BELL/CABLE TV	BC	BC	BOTTOM OF WALL ELEVATION	X 100.00 B/W	X 100.00 B/W	150mm BASE — OPSS GRANULAR A CRUSHED STONE 300mm SUBBASE — OPSS GRANULAR B TYPE II			17. WHERE THE SEPARATION BETWEEN SERVICES AND MANHOLES IS LESS THAN 1.2m, WATER SERVICE:	ES ARE TO
JOINT USE TRENCH - HYDRO/CABLE TV	——————————————————————————————————————	———нс———	FINISHED FLOOR ELEVATION	FF=100.00	FF=100.00	SUBGRADE — EITHER FILL, IN SITU SOIL OR OPSS GRANUALR B TYP	E I OR II 3. SANITARY SEWER TRENCH AND BEDDING S OTHERWISE NOTED.	SHALL BE AS PER CITY OF OTTAWA STD. S6 AND S7, CLASS 'B BEDDING UNLESS	AS PER CITY OF OTTAWA STD. W23.	
JOINT USE TRENCH - HYDRO/BELL/CABLE TV	HBC	HBC	TOP OF FOUNDATION ELEVATION	TF=100.00	TF=100.00	HEAVY DUTY PAVEMENT STRUCTURE FOR NEW ACCESS LANES AREAS PARKING STRUCTURES SHALL BE AS FOLLOWS:	4. ALL SANTANT EXTENDED AND TO BET VOS	DR 28, IPEX "RING-TITE" (OR EQUIVALENT), ANY COLOR EXCEPT WHITE AND	18. AS PER CITY GUIDELINE, THE MINIMUM VERTICAL CLEARANCE BETWEEN WATERMAIN AND SEWER / U CROSSING OVER THE SEWER, AS PER CITY STD W25.2. FOR CROSSING UNDER SEWER, THE MINIMUM	
JOINT USE TRENCH - HYDRO/BELL/CABLE TV/GAS		——— НВСС ————	BASEMENT FLOOR ELEVATION	BF=100.00	BF=100.00	40mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRET	Ε	MARKER, EXTENDING FROM THE INVERT TO 1.0m ABOVE GRADE PAINTED RED.	IS 0.50M AS PER CITY STD. W25. FOR CROSSING UNDER SEWER, ADEQUATE STRUCTURAL SUPPORT I REQUIRED TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING. THE LENGTH OF WATER	R PIPE SHA
JOINT USE TRENCH - BELL/CABLE TV/GAS	BCG	BCG	UNDERSIDE OF FOOTING ELEVATION	USF=100.00	USF=100.00	50mm HL-8 OR SUPERPAVE (PG) 58-34 19.0 ASPHALTIC CONCRETION BASE - OPSS GRANULAR A CRUSHED STONE	ARE BELOW THE GROUNDWATER TABLE.	S6 & S7. GRANULAR 'A' BEDDING TO BE INCREASED TO 300mm WHERE SEWERS	CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AND AS FAR AS SEWER.	POSSIBLE
DUCT CROSSING WITH NUMBER AND TYPE OF DUCTS	2H,2C,2B	2H,2C,2B	MINIMUM UNDERSIDE OF FOOTING ELEVATION	MUSF=100.00	MUSF=100.00	100mm SUBBASE — OPSS GRANULAR B TYPE II BELOW GRANULAR B REFER TO ARCHITECTURAL PLANS	*	NCHED AS PER OPSD 701.021. SANITARY MANHOLE FRAME AND COVERS SHALL S25. SAFETY PLATFORMS SHALL BE AS PER OPSD 404.02. DROP STRUCTURES	ROADWAY SPECIFICATIONS	
STREETLIGHT (c/w GROUND ROD WHERE REQUIRED)	¤——⊗ oρ Ls	sı ∯ Q —∺	PARKING LEVEL ELEVATION	P1=100.00	P1=100.00	LIGHT DUTY PAVEMENT STRUCTURE FOR NEW ACCESS LANES AREAS	SHALL BE IN ACCORDANCE WITH CITY OF C	TTAWA SPECIFICATIONS AND OPSD 1003.01.	ALL TOPSOIL AND ORGANIC MATERIAL SHALL BE STRIPPED WITHIN THE ROAD ALLOWANCE PRIOR TO	O THE COM
STREETLIGHT DISCONNECT	SD	SD	ORIGINAL GROUND ELEVATION	OG=100.00	OG=100.00	PARKING STRUCTURES SHALL BE AS FOLLOWS: 65mm HL-3 OR SUPERPAVE (PG) 58-34 12.5 ASPHALTIC CONCRET	THE CONTRACTOR SHALL CONDUCT INFILT	RATION/EXFILTRATION (AS PER CURRENT OPSS) TESTING ON ALL NEWLY SHALL BE PERFORMED IMMEDIATELY AFTER SEWER INSTALLATION AND VIEWED	OF CONSTRUCTION. ALL UNSUITABLE MATERIAL SUCH AS FILL, PEAT AND MARL WITHIN THE ROADWA EXCAVATED, REMOVED AND REPLACED WITH ENGINEERED FILL. EXCAVATION AND BACKFILLING WOL	
HYDRO TRANSFORMER			TOP OF ROCK ELEVATION	T/ROCK=100.00	T/ROCK=100.00	150mm BASE – OPSS GRANULAR A CRUSHED STONE	BY THE ENGINEER.		COMPLETED AS PER THE GEOTECHNICAL REPORT PREPARED BY EXP SERVICES INC. AND SHALL BE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER. SITE GRADING WORK WITHIN THE FOOTPRINT	NTS OF PRO
HYDRO SWITCHING KIOSK				100.00	100.00	100mm SUBBASE — OPSS GRANULAR B TYPE II BELOW GRANULAR B REFER TO ARCHITECTURAL PLAN		INSPECTION OF ALL NEWLY INSTALLED SANITARY SEWERS AND EXISTING BE PERFORMED IMMEDIATELY AFTER SEWERS INSTALLED.	BULDINGS, SERVICES AND ROADWAYS SHOULD CONSIST OF THE REMOVAL OF FILL, PEAT AND MARL BEDROCK OR NATIVE SOIL, WHICHEVER OCCURS FIRST.	_ TO THE S
HYDRO MANHOLE	\oplus	$oldsymbol{\Theta}$	SLOPE AND DIRECTION OF FLOW	2.0%	2.0%	ROADWAY CURB DETAILS & SUMMARY	ALL SERVICE CONNECTIONS TO BE CONST.		2. ALONG ROADWAYS, FOLLOWING THE REMOVAL OF ALL PEAT/ORGANIC AND FILL MATERIAL TO SUBG	
HYDRO METER	♦	•	SLOPE AND DIRECTION OF FLOW	-				EXIBLE SANITARY SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013.	SUBGRADE SHOULD BE PROOFROLLED USING A 10-TON VIBRATORY ROLLER IN THE PRESENCES OF A SOFT AREAS DETECTED SHOULD BE SUBEXCAVATED AND REPLACED WITH IMPORTED MATERIAL, OR MATERIAL WHICH IS FREE OF ORGANICS. BOULDERS AND/OR COBBLES. APPROVED SUBGRADE FILL.	R BY APPR
UTILITY POLE AND GUY WIRE	(—OUP	(—OUP				(BARRIER CURB PER SC1.1) (MOUNTABLE CURB PER SC1.3		R SHALL PROTECT THE PIPES FROM HEAVY CONSTRUCTION EQUIPMENT.	300mm LIFTS AND COMPACTED TO 98% SPMDD.	SHOULD
CABLE PEDESTAL	C	C	STORMWATER MANAGEMENT			BC MC		UIPPED WITH SANITARY BACKWATER VALVES INSTALLED PER CITY OF OTTAWA	3. CONCRETE CURB SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. SCI.1.1(BARRIER CURB) AN CURB), AS NOTED. PROVISION SHALL BE MADE FOR CURB DEPRESSIONS AT SIDEWALKS AND DRIVEY	
BELL PEDESTAL	B	 B				ROADWAY CURB SUMMARY	STANDARD DRAWING S14.1.			
BELL MANHOLE	(B)	$\overline{\mathbb{B}}$	MAJOR OVERLAND FLOW ROUTE ONSITE			CTATION	12. WITHIN THE FROST ZONE, THE BACKFILL IN DIFFERENTIAL FROST HEAVING IN THE SUB	THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE IGRADE.	4. ROAD SUBDRAINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STD. R1. SUBDRAINS SHALL BE CATCHBASINS. SUBDRAINS SHALL BE INSTALLED BOTH SIDES AT LOWPOINTS AND ON THE HIGH SIDE CATCHBASINS.	
BELL GROUND LEVEL BOX	GLB	GLB	MAJOR OVERLAND FLOW ROUTE OFFSITE		\leftarrow	STREET SIDE CURB TYPE FROM TO		ECT SEWERS FROM FROST DAMAGE. IN AREAS WHERE ADEQUATE FROST COVER	CATCHBASINS.	V 05 05
ENDWALL			EMERGENCY OVERLAND FLOW ROUTE		<u>\</u> -<^11	LEFT BARRIER (SC1.1) 1+000 1+1	CANNOT BE ACHIEVED. EQUIVALENT THER	MAL INSULATION TO BE INSTALLED AS PER OPSD 514.010	 PAVEMENT REINSTATEMENT FOR SERVICE AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH CITY AND OPSD 509.010, OPSS 310. 	UF OTTA
COMMUNITY MAILBOX	CMB	<u>CMB</u>			_ 	STREET 1 RIGHT BARRIER (SC1.1) 1+000 1+1	14. SERVICE LATERALS TO BE INSTALLED AS P	ER CITY OF OTTAWA DETAIL S11.1. VERTICAL RISER CONNECTIONS MAY BE IAL SEPARATION BETWEEN SANITARY LATERALS AND STORM SEWER MAIN.	6. GRANULAR "A" SHALL BE PLACED TO A MINIMUM THICKNESS OF 300MM AROUND ALL STRUCTURES W	NITHIN PA
GAS VALVE	▼ ⊗ GV	⊗ GV	STORM DRAINAGE AREA NUMBER			BARRIER (SC1.1) 0+000 0+1			7. ALL GRANULAR FOR ROADS SHALL BE COMPACTED TO A MINIMUM OF 98% STANDARD PROCTOR DEN	.NSITY.
GAS METER	_	©	STORM DRAINAGE AREA NUMBER STORM DRAINAGE AREA IN HECTARES RUN-OFF COEFFICENT		0.06 0.75	LEFT MOUNTABLE (SC1.3) 0+131 0+8	. 	LIATION OUNT CONFORM TO THE CONFORMATION OF TH	8. ASPHALT WEAR COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECES BEEN CARRIED OUT TO THE SATISFACTION OF THE ENGINEER.	.SSARY RE
TRAFFIC MANHOLE	→ TMH		SPILL ELEVATION		— · — · — · —	BARRIER (SC1.3) 0+131 0+8	SPECIFICATIONS OF THE CITY OF OTTAWA,	LLATION SHALL CONFORM TO THE LATEST REVISIONS OF THE STANDARDS AND ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS	9. SUB- EXCAVATE SOFT AREAS AND FILL WITH GRANULAR 'B' COMPACTED IN MAXIMUM 300MM LIFTS.	
TRAFFIC HAND HOLE	□ HH	□ HH	5 YEAR PONDING AREA		5 YR	STREET 2 BARRIER (SC1.1) 0+000 0+1 MOUNTABLE (SC1.3) 0+132 0+3		ER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL	9. SUB- EXCAVATE SOFT AREAS AND FILL WITH GRANULAR B COMPACTED IN MAXIMUM 300MM LIFTS. 10. PAVEMENT STRUCTURE: REFER TO LEGEND.	
TRAFFIC JOINT USE POLE	⊚ JUP	⊚ JUP	100 YEAR PONDING AREA		——— 5 TK ———————————————————————————————	RIGHT - · · ·	NON-REINFORCED CONCRETE STORM SEW	ER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.2 (LATEST AMENDMENT). ALL /ER PIPE SHALL BE IN ACCORDANCE WITH CSA A257.L (LATEST AMENDMENT). PIPE SKETS AS PER CSA A257.3 (LATEST AMENDMENT).		
TRAFFIC MAST ARM	=O= MAF	÷O= MAF	TOO TEAN FUNDING AREA		IUU TK	BARRIER (SC1.1) 0+392 0+4	8		GENERAL NOTES FOR GRADING	
TRAFFIC CONDUIT	т т	— т — т —				MOUNTABLE (SC1.3) 0+408 0+8	SPECIFIED.	35 APPROVED PER C.S.A. B182.2 OR LATEST AMENDMENT, UNLESS OTHERWISE	 IT SHALL BE THE BUILDER'S RESPONSIBILITY TO ENSURE THAT GRADING AROUND HYDRANTS, TRANS PEDESTALS, ETC., MEET CURRENT CITY OF OTTAWA, HYDRO AND UTILITY COMPANY REQUIREMENTS 	
						STREET 3 LEFT MOUNTABLE (SC1.3) 4+000 4+1	4. THE CONTRACTOR SHALL CONSTRUCT FLE	EXIBLE STORM SEWERS IN ACCORDANCE WITH OPSD 802.010 AND 802.013. RIGID	ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW F	
			GEOTECHNICAL			RIGHT MOUNTABLE (SC1.3) 4+000 4+1	SHALL PROTECT THE PIPES FROM HEAVY C	CCORDANCE WITH OPSD 802.030. DURING CONSTRUCTION THE CONTRACTOR CONSTRUCTION EQUIPMENT. BEDDING AND BACKFILL SHALL BE COMPACTED TO	APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.	-
			BOREHOLE	-ф- вн	⊕ ВН	LEFT MOUNTABLE (SC1.3) 5+000 5+1	5 SEWED DEDDING AS DED CITY STANDARDS	S6 & S7	 CONTRACTOR TO ADJUST EXISTING CATCH BASINS, MANHOLES, FIRE HYDRANTS, VALVE CHAMBERS FINAL GRADE AS REQUIRED. 	3 AND VAL
			TEST PIT	-PD-TP	TP	STREET 4 BARRIER (SC1.1) 5+193 5+2	6 ALL STORMLATERALS SHALL BE DVC SOR	28, WHITE IN COLOR AND MARKED WITH A 50mm X IOOmm WOODEN MARKER	4. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT EXISTING FOUNDATIONS OF)F ADJACE
			COREHOLE	ф сн	⊕ сн	RIGHT BARRIER (SC1.1) 5+000 5+2	6. ALL STORM LATERALS SHALL BE PVC SDR 2 EXTENDING FROM THE INVERT TO 1.0M ABO		DURING EXCAVATION AND CONSTRUCTION PERIOD.	
			PIEZOMETER	⊕ PIZ	⊕ PIZ	SAMANTHA LEFT MOUNTABLE (SC1.3) 7+000 7+0	7. ALL SERVICE CONNECTIONS TO BE CONSTI	RUCTED AS PER CITY STANDARD S11 & S11.1.	GRADING IN GRASSED AREAS WILL BE BETWEEN 2% TO 7%. GRADES IN EXCESS OF 7% WILL REQUIR TERRACING.	RE A MAXI
			MONITORING WELL			EASTOP RIGHT MOUNTABLE (SC1.3) 7+000 7+0		I THE SERVICE TRENCHES SHOULD MATCH THE SOIL ON SIDES TO MINIMIZE		
			MUNITURING WELL	₩W	₩М	REFER TO GRADING PLAN (C200 & C201) FOR TRANSITION LOCATI	DIFFERENTIAL FROST HEAVING IN THE SUB	IRAUE		
ITION IOR RENI	CH MARK JBM 🛦					SCALE DESIGNED	REVIEWED BY	OWNER	BASEPLAN PROJECT	PRO
POSITION OF ALL POLE LINES, TOP OF HEAD OF	F MAGNETIC NAIL SET IN SIDE OF C	ONCRETE SIGN						LATITUDE HOMES	HAZELDEAN HORIZONS	SURI
ERGROUND AND OVERGROUND UTILITIES NORTHING=50145	/E GRADE ELEVATION=120.77 575.29 EASTING=349007.23							1202 CARP ROAD	JLF 6171 HAZELDEAN ROAD	Z (2476
STRUCTURES IS NOT NECESSARILY	PHIC INFORMATION							STITTSVILLE, ON. K2S 1B9	CHECKED OTTAWA, ONTARIO.	DATE
ITION OF SUCH UTILITIES AND PART OF LO	OT 12, CONCESSION 12,	GEOGRAPHIC		3 REV	/ISED AS PER CITY COMMENTS 14/	10/22 AC BMT NORTH		exp Services Inc. t: +1.613.688.1899 f: +1.613.225.7330	CAD TITLE SK	DRAW
	OF GOULBOURN, CITY OF	OTTAWA.		2		D7/22 SAB BMT		t: +1.613.688.1899 f: +1.613.225.7330 2650 Queensview Drive, Unit 100 Ottawa, ON K2B 8H6 Canada	PROJECT MANAGER LEGENDS AND NOTES	
	FORMATION PROVIDED BY FAIRHALL NEED O.L.S (TP388Z) SURVEY DATED J.				ISSUED FOR APPROVAL 12/0	05/22 SAB BMT		www.exp.com	ULT	