1.	NERAL NOTES:	PROPO	SED WAT	ERMAIN (2	50n
	COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.	STATION	SURFACE	T/WM FLEVATION	
2.	DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING	0+000.0	76.54	73.77	
	CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.	0+028.9	76.54	73.66	
3.	DBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.	0+050.0	76.39	73.77	
4.	BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL	0+066.3	76.39	73.77	_
	LIABILITY INSURANCE FOR \$2,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.	0+067.3	76.39	73.77	
5.	RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD	0+069.4	76.39	73.77	
6	ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF MUNICIPAL AUTHORITIES.	0+100.0	76.39	73.77	
б.	REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISCOVED OF AT A LICENSED LANDER LEACH IX	0+130.8	76.39	73.53	0
7	ALL ELEVATIONS ARE GEODETIC	0+150.0	76.39	73.77	_
7.	ALL ELEVATIONS ARE GEODETIC.	0+175.6	76.39	73.77	
о.	GROUP INC. FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION SROUP INC. FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION DECUMPEMENTS, THE CENTERING ALCONSTRUCTION RECOMMENDATIONS AFTER EXCAVATION REFORMANCE TO DECUMPEMENTS, THE CENTERING ALCONSTRUCTION RECOMMENDATIONS AFTER EXCAVATION REFORMANCE TO DECUMPEMENTS, THE CENTERING ALCONSTRUCTION RECOMMENDATIONS AND GEOTECHNICAL INSPECTION DECUMPEMENTS, THE CENTERING ALCONSTRUCTION RECOMMENDATIONS AND FORMATIONS AND ALCONSTRUCTION RECOMMENDATIONS AND ALCONSTRUCTION RECOMMENDATION RECOMMENDATION RECOMENTATION RECONSTRUCTION RECOMMENTATION RECOMPARIANA AN	0+177.7	76.39	73.77	
	PLACEMENTS: THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.	0+179.6	76.39	73.77	
9.	REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARD SURFACE AREAS AND	0+200.0	76.53	73.77	
10		0+250.0	76.55	73.77	0
10.		0+263.1	76.55	73.53	Ċ
11.	R10 AND R25).	0+300.0	76.55	73.53	(
		0+343.3	76.55	73.77	
<u>SE</u>	WER NOTES:	0+350.0	76.55	73.77	
1.	SUPPLY AND CONSTRUCT ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA	0+377.1	76.39	73.77	
2.	SPECIFICATIONS:	0+378.2	76.39	73.77	
	ITEMSPEC. No.REFERENCESANITARY/STORM/CATCHBASIN MANHOLE (12000)701.010OPSD	0+379.2	76.39	73.77	
	STORM MANHOLE (1500Ø) 701.011 OPSD STORM MANHOLE (1800Ø) 701.012 OPSD	0+380.2	76.39	73.77	
	STORM MANHOLE (2400Ø) 701.013 OPSD STORM/CATCHBASIN MH FRAME AND COVER 401.010 - TYPE 'B' OPEN OPSD	0+421.2	76.39	73.53	+
	CATCHBASIN (600x600) 705.010 OPSD CATCHBASIN FRAME AND COVER 400.020 OPSD	0+450.0	76.39	73.77	
	STORM SEWER (375mmØ) PVC DR 35 STORM SEWER (750mmØ) PVC DR 35	0+493.3	76.39	73.77	
	STORM SEWER (864mm x 1346mm) CONC. CLASS HE-II STORM SEWER (965mm x 1524mm) CONC. CLASS HE-II	0+494.4	76.39	73.77	
	SANITARY SEWER PVC DR 35	0+495.4	76.39	73.77	
	COVER (GRANULAR 'A')	0+496.4	76.39	73.77	-
3.	PIPE BEDDING, COVER AND BACKFILL ARE TO BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY	0+549.6	76.59	73.53	
4.	FLEXIBLE CONNECTIONS ARE REQUIRED FOR CONNECTING PIPES TO MANHOLES (FOR EXAMPLE KOR-N-SEAL, PSX: POSITIVE	0+564.5	76.39	73.77	
	SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.	0+569.3	76.43	73.77	С
5.	ALL STORM MANHOLES MANHOLES WITH PIPE SIZES LESS THAN 900mm ARE TO HAVE 300mm SUMPS UNLESS OTHERWISE NDICATED. ALL STORM MANHOLES WITH PIPE SIZES 900mm AND LARGER ARE TO BE BENCHED.	0+573.5	76.45	73.77	
6.	CONTRACTOR TO TELEVISE ALL PROPOSED SEWERS 200mm OR GREATER IN DIAMETER TO ENSURE THAT THEY ARE CLEAN AND OPERATIONAL LIPON COMPLETION OF CONTRACT, THE CONTRACTOR IS DESPONDED FOR FUEL AND OF FAMILY AND AND AND A	0+580.7	76.52	73.90	
	AND OF ERATIONAL. OF ON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES, OBTAIN APPROVAL FROM THE CITY'S SEWER OPERATIONS, PROVIDE THE CCTV INSPECTION AND REPORT TO THE ENCINEER FOR BEVIEW AND APPROVAL	0+600.0	76.66	74.26	
7.	CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL.	0+650.0	76.80	74.40	
	AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS. STRUCTURE LOCATIONS AND ANY ALIGNMENT CHANGES. FTC	0+689.2	76.72	74.32	
8.	THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY CONTROL OF	0+690.2	76.72	74.32	
	ALL SANTI ARY 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	0+693.9	76.81	74.41	
	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.	0+698.5	76.73	74.33	
9.	NSULATE ALL STORM SEWERS WITH 100mm THICK LAYER OF HL-40 RIGID INSULATION EXTENDING HORIZONTALLY MINIMUM	0+743.9	76.58	73.90	CF OF
	.2m BEYOND THE OUTSIDE FACE OF THE PIPE.	0+757.8	76.45	74.05	
• -		0+762.1	76.38	73.90	
W	ATERMAIN NOTES:	0+780.7	76.13	73.73	
1.	SUPPLY AND CONSTRUCT ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS	0+800.0	76.13	73.73	
2.	SPECIFICATIONS:	0+839.4	76.13	73.73	OF
	ITEMSPEC. No.REFERENCEWATERMAIN TRENCHINGW17CITY OF OTTAWA	0+852.5	76.13	73.73	
	THERMAL INSULATION IN SHALLOW TRENCHESW22CITY OF OTTAWATHERMAL INSULATION BY OPEN STRUCTURESW23CITY OF OTTAWA	0+854.6	76.13	73.73	+
	75mmØ WATER SERVICE HDPE DR17 32mmØ WATER SERVICE TYPE 'K' COPPER	0+873.0	76.13	73.73	CI
	50mmØ WATER SERVICE TYPE 'K' COPPER	0+968.7	76.13	73.73	
3.	SUPPLY AND CONSTRUCT ALL WATERMAINS AND APPURTENANCES IN ACCORDANCE WITH THE CITY OF OTTAWA STANDARD AND SPECIFICATIONS, EXCAVATION, INSTALLATION, BACKFILL AND RESTORATION OF ALL WATERMAINS BY THE	0+969.8	76.13	73.73	
	CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN AND CHLORINATION OF THE WATER SYSTEM SHALL BE PERFORMED BY CITY OFFICIALS	0+970.8	76.13	73.73	
4.	WATERMAIN SHALL BE MINIMUM 2.4m DEPTH BELOW GRADE UNLESS OTHERWISE INDICATED.	1+050.0	76.28	73.73	
5.	PROVIDE MINIMUM 0.5m CLEARANCE BETWEEN OUTSIDE OF PIPES AT ALL CROSSINGS.	1+100.0	76.13	73.73	
6.	WATER SERVICE IS TO BE CONSTRUCTED TO WITHIN 1.0m OF FOUNDATION WALL AND CAPPED, UNLESS OTHERWISE INDICATED.	1+136.7	76.13	73.73	
		1+137.7	76.13	73.06	
	WATERMAIN NOTES ARE APPLICABLE FOR	1+138.8	76.13 76.12	73.73	
	AND SPECIFICATIONS PREPARED BY CIVELEC	1+121.3	76.13	73.73	+
	CONSULTANTS INC. FOR FIRE PROTECTION	1+150.0	76.13	73.73	
		1+200.0	76.13	73.73	
		1+250.0			
		1+250.0	76.13	73.73	
		1+252.1	76.13 76.13 76.13	73.73 73.73 73.73	
		1+250.0 1+252.1 1+253.2 1+254.2	76.13 76.13 76.13 76.13	73.73 73.73 73.73 73.73 73.73	
		1+252.1 1+253.2 1+254.2 1+300.0	76.13 76.13 76.13 76.13 76.13	73.73 73.73 73.73 73.73 73.73 73.73	
CRO	CRITICAL SEWER PIPE CROSSING TABLE ISSING LOWER PIPE HIGHER PIPE CLEARANCE	1+252.1 1+253.2 1+254.2 1+300.0 1+329.9	76.13 76.13 76.13 76.13 76.13 76.94	73.73 73.73 73.73 73.73 73.73 73.73 73.73 74.38	
CRO	CRITICAL SEWER PIPE CROSSING TABLE SSING LOWER PIPE HIGHER PIPE CLEARANCE ① 150mmØ SAN OBV=74.22 750mmØ STM INV =74.76 ±0.5m ① 150mmØ SAN OBV=74.22 750mmØ STM INV =74.76 ±0.5m	1+252.1 1+253.2 1+254.2 1+300.0 1+329.9 1+334.2	76.13 76.13 76.13 76.13 76.13 76.94 76.78	73.73 73.73 73.73 73.73 73.73 73.73 73.73 73.73 74.38 74.38	
CRO	CRITICAL SEWER PIPE CROSSING TABLESSINGLOWER PIPEHIGHER PIPECLEARANCE①150mmØ SAN OBV=74.22750mmØ STM INV =74.76±0.5m②150mmØ SAN OBV=74.22750mmØ STM INV =74.68±0.5m③150mmØ SAN OBV=74.22864x1346mmØ STM INV =74.31*±0.1m	1+252.1 1+253.2 1+253.2 1+254.2 1+300.0 1+329.9 1+334.2 1+350.0	76.13 76.13 76.13 76.13 76.13 76.94 76.78 76.84	73.73 73.73 73.73 73.73 73.73 73.73 74.38 74.38 74.44	
	CRITICAL SEWER PIPE CROSSING TABLE SSING LOWER PIPE HIGHER PIPE CLEARANCE ① 150mmØ SAN OBV=74.22 750mmØ STM INV =74.76 ±0.5m ② 150mmØ SAN OBV=74.22 750mmØ STM INV =74.68 ±0.5m ③ 150mmØ SAN OBV=74.22 864x1346mmØ STM INV =74.31* ±0.1m ④ 250mmØ SAN OBV=72.39 965x1524mmØ STM INV =74.27* ±1.9m ⑤ 150mmØ SAN OBV=74.21 750mmØ STM INV =74.59 ±0.4m	1+250.0 1+250.1 1+250.2 1+254.2 1+300.0 1+329.9 1+334.2 1+350.0 1+400.0 1+450.0	76.13 76.13 76.13 76.13 76.13 76.94 76.78 76.78 76.84 76.75 76.91	73.73 73.73 73.73 73.73 73.73 74.38 74.38 74.44 74.35 74.51	
	CRITICAL SEWER PIPE CROSSING TABLE SSING LOWER PIPE HIGHER PIPE CLEARANCE ① 150mmØ SAN OBV=74.22 750mmØ STM INV =74.76 ±0.5m ② 150mmØ SAN OBV=74.22 750mmØ STM INV =74.68 ±0.5m ③ 150mmØ SAN OBV=74.22 864x1346mmØ STM INV =74.31* ±0.1m ④ 250mmØ SAN OBV=72.39 965x1524mmØ STM INV =74.27* ±1.9m ⑤ 150mmØ SAN OBV=74.21 750mmØ STM INV =74.31* ±0.4m ⑥ 150mmØ SAN OBV=74.21 864x1346mmØ STM INV =74.31* ±0.4m ⑥ 150mmØ SAN OBV=74.21 864x1346mmØ STM INV =74.31* ±0.1m ⑨ 150mmØ SAN OBV=74.21 864x1346mmØ STM INV =74.31* ±0.4m ⑨ 150mmØ SAN OBV=74.21 864x1346mmØ STM INV =74.31* ±0.1m	1+252.1 1+253.2 1+253.2 1+254.2 1+300.0 1+329.9 1+334.2 1+350.0 1+400.0 1+450.0 1+500.0	76.13 76.13 76.13 76.13 76.94 76.94 76.78 76.84 76.75 76.91 76.67	73.73 73.73 73.73 73.73 73.73 74.38 74.38 74.44 74.35 74.51 74.27	

	COMMENTS	COMMENTS	T/WM ELEVATION	SURFACE ELEVATION	ATION
	TEE CONNECTION TO EX. 100mmØ WM	TEE CONNECTION TO EX. 100mm@	75.15	77.55	000.0
	1500mm x 1800mm WATER CHAMBER	1500mm x 1800mm WATER CHAMBE	74.95	77.35	019.0
	- CROSS BELOW BOX CULVERT (+0.50m CLEARANCE)	- CROSS BELOW BOX CUI VERT (+0.50m CLE	74.75	77.70	0.50.0
ΙΓ	INSULATE PER CITY OF OTTAWA STANDARD W21		74.20	75.38	077.5
	45° HORIZONTAL BEND	45° HORIZONTAL BEND	74.76	77.16	087.7
	-		74.75	77.15	100.0
	-	-	74.50	76.90	125.0
	-	-	74.42	76.82	150.0
	-	-	74.48	76.88	175.0
		-	74.39	76.79	200.0
	-		74.49	76.89	250.0
	-	-	74.38	76.78	275.0
	-	-	74.31	76.71	300.0
	-	-	74.16	76.56	325.0
	45° HORIZONTAL BEND		74.10	76.50	333.6
	-		73.71	76.33	375.0
	- 1		73.71	76.33	400.0
	-	-	73.71	76.33	425.0
	-		73.71	76.33	450.0
		-	73.71	76.33	175.0
		- -	73.71	76.33	500.0 525.0
			73.71	76.33	550.0
L			73.71	76.33	575.0
	-	_	73.71	76.33	600.0
	-	-	73.71	76.33	625.0
	-	-	73.71	76.33	350.0
	45° HORIZONTAL BEND	- 45° HORIZONTAL BEND	73.71	76.33	575.0
	45° HORIZONTAL BEND	45° HORIZONTAL BEND	73.73	76.35	685.4
	CROSS ABOVE 250mmØ SAN	CROSS ABOVE 250mmØ SAN (+0.65m CLEARANCE)	73.73	76.36	687.0
	CROSS BELOW 250mmØ WM	CROSS BELOW 250mmØ WM	73.22	76.56	690.0
	CROSS BELOW 864mm x 1346mm STM	CROSS BELOW 864mm x 1346mm ST	73.81	76.57	694.0
	CAP 1.0m FROM BUILDING FACE	CAP 1.0m FROM BUILDING FACE	73.84	77.44	696.0
				11	
	IN (32mmØ DOMESTIC) TABLE	N (32mmØ DOMESTIC) TABLE	VATERMA	OPOSED	PR
		COMMENTS	T/WM	SURFACE	
			ELEVATION	ELEVATION	
	CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM	CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST	73.84	76.24	001.0
	(±0.50m CLEARANCE)	(±0.50m CLEARANCE)	73.80	76.20	005.0
	CROSS ABOVE 250mm@ SAN		73.76	76.16	009.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE)	(±0.50m CLEARANCE)			
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEA	73.15	76.13	012.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) -	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - -	73.15 73.60 73.35	76.13 76.00 75.75	012.0 025.0 050.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - - CROSS BELOW 250mmØ SWALE SUBDRAIN	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEA - - CROSS BELOW 250mmØ SWALE SUBDR	73.15 73.60 73.35 72.58	76.13 76.00 75.75 74.98	012.0 025.0 050.0 068 7
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE)	73.15 73.60 73.35 72.58 74.60	76.13 76.00 75.75 74.98 77.00	012.0 025.0 050.0 068.7 075.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR	73.15 73.60 73.35 72.58 74.60 72.68	76.13 76.00 75.75 74.98 77.00 75.08	012.0 025.0 050.0 068.7 075.0 087.3
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLEARANCE)	73.15 73.60 73.35 72.58 74.60 72.68 74.63	76.13 76.00 75.75 74.98 77.00 75.08 77.03	012.0 025.0 050.0 068.7 075.0 087.3
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLEARANCE) - - CAP 1.0m FROM BUILDING FACE	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLÉARANCE) - CAP 1.0m FROM BUILDING FACE	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CAP 1.0m FROM BUILDING FACE	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE N (50mmØ DOMESTIC) TABLE	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CAP 1.0m FROM BUILDING FACE	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE N (50mmØ DOMESTIC) TABLE COMMENTS	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.63 74.80 VATERMAI	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CAP 1.0m FROM BUILDING FACE	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.63 74.80 VATERMAI	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46	012.0 025.0 055.0 068.7 075.0 087.3 100.0 102.0 PR
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLÉARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDF (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.57	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDF (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.22	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.57 76.55	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDF (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE)	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.22 73.56	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.57 76.55 76.34	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 TION 000.0 001.6 005.6 008.6
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLÉARANCE) - CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLÉARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE)	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.22 73.56 73.84	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.57 76.55 76.34 76.34	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6 005.6 008.6 025.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDF (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) -	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.22 73.56 73.84 73.84 73.84	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.57 76.55 76.34 76.34 76.34	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6 005.6 008.6 025.0 050.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ SAN (±0.50m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE)	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.84 73.84 73.84 73.84 73.84	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.57 76.55 76.34 76.34 76.34 76.34	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6 005.6 008.6 025.0 050.0 065.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLÉARANCE) - CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDF (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE)	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.22 73.56 73.84 73.84 73.84 73.84 73.84 73.84 73.84	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.57 76.55 76.34 76.34 76.34 76.34 76.34	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6 005.6 005.6 005.6 025.0 055.0 055.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLÉARANCE) CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS ABOVE 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) -	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDR (±1.9m CLÉARANCE) CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS BELOW 250mmØ SWALE SUBDR (±0.50m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE)	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.22 73.56 73.84 73.84 73.84 73.84 73.84 73.84 73.84	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.03 77.04 8 77.03 77.04 76.55 76.34 76.34 76.34 76.90 76.95	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6 005.6 005.6 005.6 005.0 005.0 050.0 055.0 055.0 0075.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ SAN (±0.50m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE)	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDF (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS ABOVE 250mmØ SWALE SUBDR (±0.50m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) -	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.85 74.50 74.55 74.55 74.55	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.55 76.34 76.34 76.34 76.90 76.95	012.0 025.0 055.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6 005.6 005.6 005.6 005.0 055.0 055.0 055.0 055.0 005.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE CASS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) -	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDF (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) - -	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI LEVATION 73.86 73.84 73.84 73.84 73.84 73.84 73.84 73.84 73.84 73.84 73.84 73.84 73.84 74.50 74.55 74.55	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.20 OPOSED SURFACE ELEVATION 76.46 76.57 76.54 76.34 76.34 76.34 76.34 76.90 76.95 76.95 76.95	012.0 025.0 050.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6 005.6 008.6 025.0 005.0 065.0 065.0 065.0 075.0 100.0 125.0
	CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.9m CLEARANCE) - CAP 1.0m FROM BUILDING FACE CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm STM (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLEARANCE) CROSS BELOW 250mmØ SAN (±0.50m CLEARANCE) - CROSS BELOW 250mmØ SWALE SUBDRAIN (±1.7m CLEARANCE) - -	(±0.50m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDF (±1.9m CLEARANCE) CAP 1.0m FROM BUILDING FACE COMMENTS CAP 1.0m FROM BUILDING FACE CROSS BELOW 864mm x 1346mm ST (±0.61m CLEARANCE) CROSS BELOW 250mmØ WM (±0.30m CLE/ CROSS ABOVE 250mmØ SAN (±0.50m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE) CROSS BELOW 250mmØ SWALE SUBDR (±1.7m CLEARANCE)	73.15 73.60 73.35 72.58 74.60 72.68 74.63 74.80 VATERMAI ELEVATION 73.86 73.84 73.84 73.84 73.84 73.84 73.84 73.84 74.50 74.55 74.55 74.55	76.13 76.00 75.75 74.98 77.00 75.08 77.03 77.03 77.04 8 77.03 77.04 8 76.05 76.46 76.55 76.34 76.34 76.34 76.34 76.34 76.90 76.95 76.95 76.95 76.95 76.95 76.95	012.0 025.0 055.0 068.7 075.0 087.3 100.0 102.0 PR TION 000.0 001.6 005.6 005.6 025.0 055.0 00000000

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RY HYDRANT INST SURFACE WATER

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2 모묘

SERVICE POST AS PER W35 LOCATED WITHIN -

CITY WATERMAIN ---

CITY WATERMAIN ---

REDUCER -

1.0m OF CHAMBER

APPROVED 50mmØ

REDUCER –

CURB STOP



TYPICAL INSULATION DETAIL (STORM SEWERS ONLY) SCALE = 1:50

				SCALE	DESIGN	FOR REVIEW ONLY
					MS CHECKED	OFESSION
5.	REVISED PER CITY AND MTO COMMENTS	JUN 29/18	LGB	AS NOTED	MS/JLS	Sopre Ulland the
4.	ISSUED FOR EXCAVATION, FOUNDATION AND SUPERSTUCTURE PERMIT	APR 25/18	LKS			M. SAVIC
3.	ISSUED FOR SITE PLAN APPLICATION	APR 12/18	LKS		CHECKED	
2.	ISSUED FOR FINAL COORDINATION	APR 9/18	LKS		MS/JLS	3 29/06/18 8
1.	ISSUED FOR FINAL COORDINATION	APR 2/18	LKS		APPROVED	VINCE OF ONTIN
No.	REVISION	DATE	BY		MS	

OmmØ FIRE PROTECTION) TABLE
COMMENTS
45° HORIZONTAL BEND
CROSS BELOW 100mmØ SAN AS PER CITY OF OTTAWA STANDARD W25 (±0.50m CLEARANCE) -
HYDRANT CONNECTION
250mm x 250mm x 250mm TEE
PIV 250mm x 250mm x 250mm TEE
-
CROSS BELOW 100mmØ SAN AS PER CITY OF OTTAWA STANDARD W25 (±0.50m CLEARANCE)
250mm x 250mm x 250mm TEE
250mm x 250mm x 250mm TEE
HYDRANT CONNECTION
-
- CROSS BELOW 150mmØ SAN AS PER CITY OF OTTAWA STANDARD W25 (±0.50m CLEARANCE)
- CROSS BELOW 150mmØ SAN AS PER CITY OF
OTTAWA STANDARD W25 (±0.50m CLEARANCE) CROSS ABOVE 75mmØ WM (±0.30m CLEARANCE)
- 250mm x 250mm x 250mm TFF
PIV
250mm x 250mm x 250mm TEE
HYDRANT CONNECTION
- CROSS BELOW 100mmØ SAN AS PER CITY OF OTTAWA STANDARD W25 (±0.50m CLEARANCE)
- 250mm x 250mm x 250mm TEE
PIV
250mm x 250mm x 250mm TEE
HYDRANT CONNECTION
CROSS ABOVE 50mmØ WM (±0.3m CLEARANCE)
OTTAWA STANDARD W25 (±0.50m CLEARANCE)
45° HORIZONTAL BEND
45° HORIZONTAL BEND
CROSS BELOW 956mm x 1524mm STM
(10.3011 OLEARANGE)
250mm x 250mm x 250mm TEE
(±0.50m CLEARANCE)
250mm x 250mm x 250mm TEE
CROSS BELOW 956mm x 1524mm STM AS PER CITY
45° HORIZONTAL BEND
45° HORIZONTAL BEND
250mm x 250mm x 250mm TEE
- CROSS ABOVE 200mmØ SAN AS PER CITY DF OTTAWA STANDARD W25.2 (±0.50m CLEARANCE)
250mm x 250mm x 250mm TEE
250mm x 250mm x 250mm TEE
CROSS ABOVE 32mmØ WM (±0.30m CLEARANCE)
250mm x 250mm x 250mm TEE
PIV
250mm x 250mm x 250mm TEE
-
250mm x 250mm x 250mm TEE
PIV 250mm x 250mm x 250mm TEE
PIV
250mm x 250mm x 250mm TEE
-
250mm x 250mm x 250mm TEE
PIV
250mm x 250mm x 250mm TEE
- 45° HORIZONTAL REND
45° HORIZONTAL BEND
-

