

LEGEND

- PROPERTY BOUNDARY
- EXISTING CONTOUR (0.25 m INTERVAL)
- TERRACING (SLOPE AS INDICATED)
- RIP-RAP 200 mmØ, 300 M THICK (NOMINAL) AS PER OPSD 810.010 TYPE 'B'
- DITCH
- 600 mmØ CULVERT OR AS NOTED
- EXISTING CULVERT AS NOTED
- PROPOSED FIREMAIN
- PROPOSED WATERMAIN
- PROPOSED WATERMAIN VALVE
- CATCH BASIN (OPSD 705.010 C/W 600 mm SUMP)
- MAINTENANCE HOLE (OPSD 707.020)
- STORM SEWER LOCATION
- PROPOSED SIAMESE CONNECTION
- PROPOSED FIRE HYDRANT
- PROPOSED DRY HYDRANT

75 mm DIA. HDPE DR17 WATERMAIN FOR W1 TO W5, W20 AND W22 TABLE

WATERMAIN LINE	STATION	PROPOSED ELEVATION	PROPOSED TOP OF WATERMAIN / SERVICE	DESCRIPTION
W1	0+000	77.00	74.60	N/A
0+003.5	77.00	74.60	TEE CONNECTION AT W10 AND W22	
W2	0+000	77.00	74.60	TEE CONNECTION AT W1 AND W10
0+004.8	77.20	74.80	MINOR BEND	
0+038.7	77.20	74.80	MINOR BEND	
0+050	77.25	74.85	N/A	
0+085.6	77.25	74.85	MINOR BEND	
0+095.4	77.25	74.85	TEE CONNECTION AT W3 AND W11	
W3	0+000	77.25	74.85	TEE CONNECTION AT W2 AND W11
0+050	77.15	74.75	N/A	
0+076.3	77.10	74.70	MINOR BEND	
0+100	76.90	74.50	N/A	
0+102.3	76.90	74.50	TEE CONNECTION AT W4 AND W9	
W4	0+000	76.90	74.50	TEE CONNECTION AT W3 AND W9
0+050	76.70	74.30	N/A	
0+100	76.65	74.25	MINOR BEND	
0+143.8	76.50	74.10	TEE CONNECTION AT W5 AND W12	
W5	0+000	76.50	74.10	TEE CONNECTION AT W4 AND W12
0+050	76.70	74.30	N/A	
0+100	76.70	74.30	N/A	
0+150	76.70	74.30	N/A	
0+199.8	76.70	74.30	TEE CONNECTION AT W6 AND W13	
W20	0+000	77.00	74.60	CONNECTION AT BOUNDARY ROAD WM
0+050	77.55	75.15	N/A	
0+100	77.55	75.15	N/A	
0+108.8	77.55	75.15	MINOR BEND	
0+133.5	77.45	75.05	MINOR BEND	
0+150	77.45	75.05	N/A	
0+163.8	77.45	75.05	MINOR BEND	
0+194.2	77.40	75.00	MINOR BEND	
0+200	77.40	75.00	N/A	
0+208.3	77.40	75.00	MINOR BEND	
0+250	77.20	74.80	N/A	
0+261.5	77.20	74.80	MINOR BEND	
0+300	77.20	74.80	N/A	
0+318.5	77.20	74.80	MINOR BEND	
0+350	77.20	74.80	N/A	
0+359.9	77.20	74.80	MINOR BEND	
0+365.3	77.20	74.80	MINOR BEND	
0+400	77.20	74.80	N/A	
0+450	77.20	74.80	N/A	
0+492.8	77.00	74.60	MINOR BEND	
0+494.3	77.00	74.60	MINOR BEND	
0+500	77.00	74.60	N/A	
0+522.2	76.90	74.50	45 DEG. HORZ. BEND	
0+525.1	76.80	74.40	45 DEG. HORZ. BEND	
0+536.3	77.00	74.60	45 DEG. HORZ. BEND	
0+539.1	77.00	74.60	45 DEG. HORZ. BEND	
0+542.1	77.00	74.60	CONNECTION AT CISTERN	
W22	0+000	77.00	74.60	CONNECTION AT W1 AND W10
0+015	77.00	74.60	TEE CONNECTION AT W2 AND W21	

50 mm DIA. HDPE DR17 WATER SERVICE FOR W10, W12 TO W17 TABLE

WATERMAIN LINE	STATION	PROPOSED ELEVATION	PROPOSED TOP OF WATERMAIN / SERVICE	DESCRIPTION
W10	0+000	77.00	74.60	TEE CONNECTION AT W1 AND W22
0+037.90	77.38	74.98	CONNECTION AT BUILDING	
W12	0+000	76.50	74.10	TEE CONNECTION AT W4 AND W5
0+050	77.00	74.60	N/A	
0+100	77.00	74.60	N/A	
0+125.8	77.00	74.60	45 DEG. HORZ. BEND	
0+128.7	77.00	74.60	45 DEG. HORZ. BEND	
0+150	77.10	74.70	N/A	
0+200	77.15	74.75	N/A	
0+219.7	77.25	74.85	TEE CONNECTION AT W3 AND W11	
W13	0+000	76.70	74.30	TEE CONNECTION AT W5 AND W6
0+050	77.10	74.70	N/A	
0+100	77.10	74.70	N/A	
0+110.5	77.20	74.80	45 DEG. HORZ. BEND	
0+113.3	77.20	74.80	45 DEG. HORZ. BEND	
0+150	77.15	74.75	N/A	
0+200	77.15	74.75	N/A	
0+232.5	77.25	74.85	CONNECTION AT BUILDING	
W14	0+000	76.70	74.30	TEE CONNECTION AT W7 AND W15
0+050	76.80	74.40	N/A	
0+056.5	76.80	74.40	45 DEG. HORZ. BEND	
0+059.4	76.85	74.45	45 DEG. HORZ. BEND	
0+062	76.90	74.50	CONNECTION AT BUILDING	
W16	0+000	77.20	74.80	TEE CONNECTION AT W8 AND W17
0+025.2	77.20	74.80	CONNECTION AT BUILDING	
W17	0+000	77.20	74.80	TEE CONNECTION AT W8 AND W16
0+050	77.15	74.75	N/A	
0+100	77.10	74.70	N/A	
0+150	76.50	74.10	N/A	
0+0155.9	76.50	74.10	45 DEG. HORZ. BEND	
0+185	76.80	74.40	45 DEG. HORZ. BEND	
0+190	76.80	74.40	CONNECTION AT BUILDING	

25 mm DIA. HDPE DR17 WATER SERVICE FOR W15 TABLE

WATERMAIN LINE	STATION	PROPOSED ELEVATION	PROPOSED TOP OF WATERMAIN / SERVICE	DESCRIPTION
W15	0+000	76.70	74.30	TEE CONNECTION AT W7 AND W14
0+050	76.55	74.15	N/A	
0+100	76.45	74.05	N/A	
0+105.5	76.45	74.05	N/A	
0+123	76.55	74.15	45 DEG. HORZ. BEND	
0+125.9	76.55	74.15	45 DEG. HORZ. BEND	
0+150	76.40	74.00	N/A	
0+200	76.70	74.30	N/A	
0+236.9	76.65	74.25	45 DEG. HORZ. BEND	
0+239.8	76.00	73.60	45 DEG. HORZ. BEND	
0+250	76.90	74.50	N/A	
0+281.5	76.90	74.50	CONNECTION AT BUILDING	

PIPE REFERENCE TABLE FOR F1 TO F7

PIPE	DESCRIPTION
F1	422.0 m - 300 mm DIA. HDPE DR17 PIPE
F2	118.0 m - 375 mm DIA. HDPE DR17 PIPE
F3	17.0 m - 375 mm DIA. HDPE DR17 PIPE
F4	236.0 m - 375 mm DIA. HDPE DR17 PIPE
F5	164.0 m - 200 mm DIA. HDPE DR17 PIPE
F6	173.0 m - 200 mm DIA. HDPE DR17 PIPE
F7	5.0 m - 150 mm DIA. HDPE DR17 PIPE
F8	99.0 m - 200 mm DIA. HDPE DR17 PIPE
F9	56.0 m - 200 mm DIA. HDPE DR17 PIPE
F10	3.0 m - 150 mm DIA. HDPE DR17 PIPE
F11	3.0 m - 150 mm DIA. HDPE DR17 PIPE
F12	20.0 m - 150 mm DIA. HDPE DR17 PIPE
F13	20.0 m - 150 mm DIA. HDPE DR17 PIPE

50 mm DIA. HDPE DR17 WATERMAIN FOR W6 TO W8 TABLE

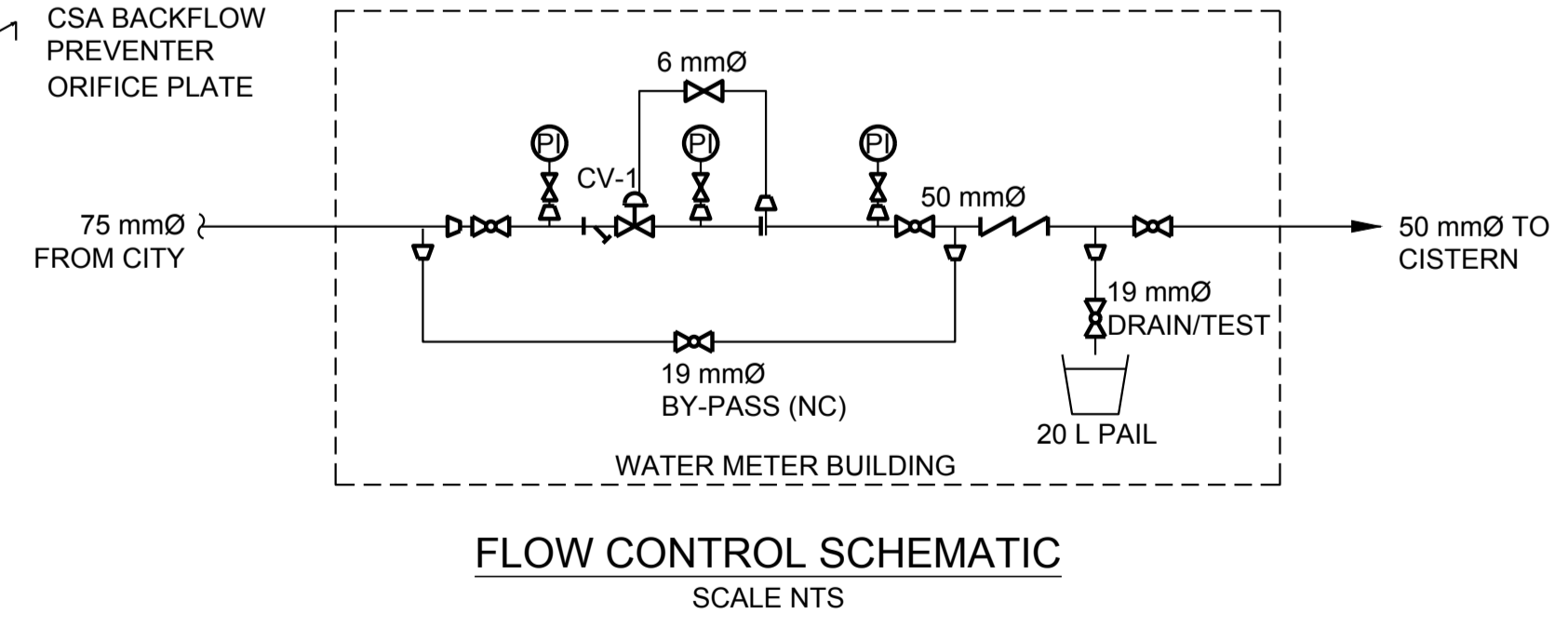
WATERMAIN LINE	STATION	PROPOSED ELEVATION	PROPOSED TOP OF WATERMAIN / SERVICE	DESCRIPTION
W6	0+000	76.70	74.30	TEE CONNECTION AT W5 AND W13
0+050	76.70	74.30	N/A	
0+100	76.70	74.30	N/A	
0+150	76.70	74.30	N/A	
0+168.5	76.70	74.30	TEE CONNECTION AT W7 AND W8	
W7	0+000	76.70	74.30	TEE CONNECTION AT W6 AND W15
0+050	76.70	74.30	N/A	
0+100	76.70	74.30	N/A	
0+126.4	76.70	74.30	TEE CONNECTION AT W14 AND W15	
W8	0+000	76.70	74.30	TEE CONNECTION AT W6 AND W7
0+050	77.00	74.60	N/A	
0+083.6	76.00	73.60	45 DEG. HORZ. BEND	
0+091.9	76.00	73.60	45 DEG. HORZ. BEND	
0+100	77.40	75.00	N/A	
0+150	77.10	74.70	N/A	
0+170.2	77.10	74.70	TEE CONNECTION AT W16 AND W17	

19 mm DIA. HDPE DR 17 WATER SERVICE FOR W9, W11 AND W21 TABLE

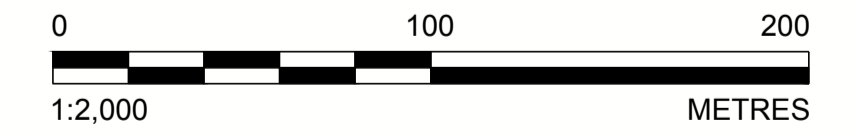
WATERMAIN LINE	STATION	PROPOSED ELEVATION	PROPOSED TOP OF WATERMAIN / SERVICE	DESCRIPTION
W11	0+000	77.15	74.75	TEE CONNECTION AT W2 AND W3
0+009.7	77.25	74.85	45 DEG. HORZ. BEND	
W9	0+000	76.90	74.50	45 DEG. HORZ. BEND
0+048.5	77.10	74.70	MINOR BEND	
0+050	77.10	74.70	N/A	
0+100	76.80	74.40	N/A	
0+150	76.60	74.20	N/A	
0+200	76.50	74.10	N/A	
0+203.2	76.50	74.10	MINOR BEND	
0+204.8	76.50	74.10	MINOR BEND	
0+221.8	76.50	74.10	MINOR BEND	
0+246	76.90	74.50	45 DEG. HORZ. BEND	
0+247.5	76.90	74.50	45 DEG. HORZ. BEND	
0+250	77.00	74.60	MINOR BEND	
0+252.2	77.15	74.75	CONNECTION AT BUILDING	
W21	0+000	76.90	74.50	TEE CONNECTION AT W2 AND W22
0+044.2	76.90	74.50	MINOR BEND	
0+045.6	76.90	74.50	MINOR BEND	
0+050	76.90	74.50	N/A	
0+100	77.20	74.80	N/A	
0+150	77.20	74.80	N/A	
0+173.1	77.20	74.80	MINOR BEND	
0+178.5	77.20	74.80	MINOR BEND	
0+197.4	77.30	74.90	45 DEG. HORZ. BEND	
0+198.8	77.40	75.00	45 DEG. HORZ. BEND	
0+200	77.50	75.10	N/A	
0+202.9	77.50	75.10	CONNECTION AT BUILDING	

LEGEND

- GATE VALVE
- STRAINER
- REDUCER
- BALL VALVE
- CONTROL VALVE
- CSA BACKFLOW PREVENTER
- ORIFICE PLATE



- WATERMAIN AND FIRE SERVICE**
- CONSTRUCTION SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND SPECIFICATIONS AND ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS WHERE APPLICABLE. ONTARIO PROVINCIAL STANDARDS SHALL APPLY WHERE NO CITY STANDARDS ARE AVAILABLE. ALL DRAWINGS TO BE CHECKED FOR CONFIRMATION WITH APPLICABLE BUILDING CODES. NO ALTERATION OR GRADING OF SITE IS TO OCCUR PRIOR TO APPROVAL BY CITY.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO SATISFY ENGINEERING AND LANDSCAPE WORKS. CONTRACTOR TO OBTAIN PERMIT FOR CONNECTING TO SEWERS AND CONNECTION TO WATERMAIN. CONTRACTOR TO VISIT SITE PRIOR TO TENDERING AND CONFIRM SITE CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND BEAR COST OF SAME.
 - LOCATION OF SERVICES ARE NOT ALL SHOWN. LOCATION OF UTILITIES AND UNDERGROUND WORKS THAT ARE SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY LOCATION AND ELEVATION OF ALL SERVICES, UTILITIES AND UNDERGROUND STRUCTURES PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REINSTATEMENT.
 - THE CONTRACTOR SHALL CONSTRUCT WATERMAINS, FIREMANS WATER SERVICES, CONNECTION, AND APPURTENANCES AS PER THE CITY SPECIFICATIONS AND SHALL COORDINATE AND PAY ALL RELATED COSTS INCLUDING THE COST OF CONNECTION, INSPECTION, DISINFECTION AND WATER METER SUPPLY AND INSTALLATION BY CITY PERSONNEL. WATERMAINS SHALL BE INSTALLED AS PER W17, W25, W25.3, W25.4, W25.5 AND W25.6. HYDRANTS TO BE INSTALLED AS PER W18, W19 AND W20. SERVICE CONNECTION SHALL BE INSTALLED A MINIMUM 2400 mm FROM ANY CATCH BASIN, MANHOLE OR OBJECT THAT MAY CONTRIBUTE TO FREEZING. THERMAL INSULATION SHALL ONLY BE INSTALLED WHERE SHOWN ON THE DRAWING OR OTHERWISE APPROVED BY THE CITY AS PER THE CITY SPECIFICATIONS W21, W22 AND W23. (WATER METER AND APPURTENANCES AS PER W-30, 31 AND 32)
 - ALL DISTURBED AREAS TO BE REINSTATED TO EQUAL OR BETTER CONDITION. PAVEMENT REINSTATEMENT FOR UTILITY CUTS SHALL BE IN ACCORDANCE WITH R10. ALL NEW WORK SHALL BLEND INTO EXISTING (TO BE APPROVED BY CONSULTANT).
 - ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED. DRAWINGS SHOULD NOT BE SCALED BY THE CONTRACTOR. ANY MISSING OR QUESTIONABLE DIMENSIONS ARE TO BE CONFIRMED WITH THE CONSULTANT IN WRITING.
 - SITE WORKS CONTRACTOR IS RESPONSIBLE FOR ALL WORKS, UTILITY AND SERVICE CONNECTIONS TO THE BUILDING. CONNECTIONS TO BE COORDINATED WITH BUILDING CONTRACTOR.
 - THE CONTRACTOR SHOULD ENSURE THAT THESE DRAWINGS ARE SUPPLEMENTED FOR ARCHITECTURAL, AND STRUCTURAL HEATING/AIR CONDITIONING, AND ELECTRICAL, REQUIREMENTS TO SUIT MUNICIPAL, AND PROVINCIAL REQUIREMENTS.
 - SIDE SLOPE OF EXCAVATIONS SHOULD BE SLOPED IN ACCORDANCE WITH THE REQUIREMENTS OF ONT. REG. 213/91 UNDER THE OCCUPATIONAL HEALTH AND SAFETY ACT. REFER TO GEOTECHNICAL REPORT FOR CONSTRUCTION DETAILS.



REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED
2	2018-12-14	REVISED FOR SITE PLAN APPROVAL	MHK	MLF	DVK	DVK
1	2018-06-15	ISSUED FOR SITE PLAN APPROVAL	MHK	MLF	DVK	DVK

SEAL CLIENT PROJECT TITLE

TAGGART MILLER ENVIRONMENTAL SERVICES CAPITAL REGION RESOURCE RECOVERY CENTRE

CONSULTANT

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PROJECT NO. CONTROL REV. of DRAWING

1787048 0007 2 SS1

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI D



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