

CLV GROUP
 485 Bank Street, Suite 200
 Ottawa, Ontario
 K2P 1Z2

REVISION RECORD

NO.	DESCRIPTION	DATE
1	ISSUED FOR SITE PLAN APPROVAL	2019-10-28
2	ISSUED FOR REVIEW	2019-10-01
3	ISSUED FOR COORDINATION	2019-04-30

ISSUE RECORD

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PARSONS
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 Ottawa, ON

PROJ SCALE DRAWN REVIEWED
 477074 1:300 SS MM

SITE SERVICING PLAN

C101

OIL GRIT SEPARATOR DATA

STRUCTURE	COVER	SIZE	MODEL	T/G	ELEVATION
ST-OGS-02S	OPSD 401.030	182x99	STORMCEPTOR EFO6	67.40	SE 65.83 (300mm) NW 65.80 (300mm)
ST-OGS-01T	OPSD 401.030	121x99	STORMCEPTOR EFO4	67.19	S 65.71 (300mm) N 65.68 (300mm)

WATERMAIN TABLE

STATION	SURFACE ELEVATION	WM DEPTH	TOP OF WM ELEV.	INV. OF WM ELEV.	NOTES
0+000.0	67.24	EXIST	EXIST	EXIST	TEE, 200 x 250, CONNECT TO EXISTING WM
0+002.2	67.27	2.40m	64.87	64.62	VALVE AND VALVE BOX
0+021.1	67.27	2.40m	65.34	65.09	HORIZ. 45° BEND
0+050.0	68.13	2.40m	65.73	65.48	TEE, 250 x 150
0+050.0	68.17	2.40m	65.77	65.62	OFFSET 1.18m, VALVE AND VALVE BOX
0+050.0	68.26	2.40m	65.86	65.71	OFFSET 3.83m, WATER CAP 1.0m FROM BUILDING
0+051.6	68.14	2.40m	65.74	65.49	CR-02, REFER TO CROSSING TABLE
0+071.5	68.13	2.40m	65.73	65.48	VALVE AND VALVE BOX
0+073.1	68.13	2.40m	65.73	65.58	TEE, 250 x 150
0+073.1	68.24	2.40m	65.84	65.69	OFFSET 4.18m, WATER CAP
0+073.1	68.12	2.40m	65.72	65.57	OFFSET 24.15m, WATER CAP
0+073.1	67.99	2.40m	65.59	65.44	OFFSET 29.78m, VALVE AND VALVE BOX
0+073.1	67.91	2.40m	65.51	65.36	OFFSET 32.69m, FIRE HYDRANT
0+077.0	68.15	2.40m	65.75	65.50	TEE, 250 x 250
0+077.0	68.08	2.40m	65.68	65.43	OFFSET 3.27m, CR-04, REFER TO CROSSING TABLE
0+077.0	68.06	2.40m	65.66	65.41	OFFSET 4.34m, VERT. 45° BEND
0+077.0	68.06	2.64m	65.42	65.17	OFFSET 4.58m, VERT. 45° BEND
0+077.0	68.04	2.62m	65.42	65.17	OFFSET 5.27m, CR-03, REFER TO CROSSING TABLE
0+077.0	68.04	2.69m	65.35	65.10	OFFSET 6.93m, VALVE AND VALVE BOX
0+077.0	68.06	2.77m	65.29	65.04	OFFSET 8.43m, REDUCER, 250 x 150
0+077.0	67.16	EXIST	EXIST	EXIST	OFFSET 11.65m, CONNECT TO EXISTING WM
0+085.1	68.15	2.40m	65.75	65.50	VALVE AND VALVE BOX
0+115.8	68.23	2.40m	65.83	65.58	CR-05, REFER TO CROSSING TABLE
0+117.3	68.23	2.40m	65.83	65.58	TEE, 250 x 150
0+117.3	68.28	2.40m	65.88	65.73	OFFSET 1.41m, VALVE AND VALVE BOX
0+117.3	68.31	2.40m	65.91	65.76	OFFSET 2.26m, WATER CAP 1.0m FROM BUILDING
0+118.3	68.23	2.40m	65.83	65.58	VALVE AND VALVE BOX
0+119.3	68.23	2.40m	65.83	65.58	TEE, 250 x 150
0+119.3	68.29	2.40m	65.89	65.74	OFFSET 1.18m, VALVE AND VALVE BOX
0+119.3	68.32	2.40m	65.92	65.77	OFFSET 3.83m, WATER CAP 1.0m FROM BUILDING
0+141.3	68.25	2.40m	65.85	65.60	CR-08, REFER TO CROSSING TABLE
0+146.9	68.20	2.55m	65.65	65.40	TEE, 250 x 250
0+146.9	68.05	2.40m	65.65	65.40	OFFSET 1.50m, VALVE AND VALVE BOX
0+146.9	68.14	2.47m	65.67	65.42	OFFSET 6.57m, CR-13, REFER TO CROSSING TABLE
0+146.9	68.13	2.46m	65.67	65.42	OFFSET 10.29m, WATER CAP
0+148.8	68.00	2.40m	65.60	65.35	VERT. 45° BEND
0+149.3	68.00	2.86m	65.14	64.89	VERT. 45° BEND
0+149.9	67.99	2.85m	65.14	64.89	CR-11, REFER TO CROSSING TABLE
0+150.4	67.99	2.85m	65.14	64.89	VERT. 45° BEND
0+150.9	67.98	2.40m	65.58	65.33	VERT. 45° BEND
0+151.9	67.98	2.40m	65.58	65.33	CR-10, REFER TO CROSSING TABLE
0+153.8	67.98	2.40m	65.58	65.33	VALVE AND VALVE BOX
0+154.5	67.99	2.40m	65.59	65.34	VERT. 45° BEND
0+154.8	67.99	2.00m	65.99	65.74	VERT. 45° BEND
0+155.7	68.01	2.00m	66.01	65.76	REDUCER, 250 x 150
0+156.5	68.02	EXIST	EXIST	EXIST	CONNECT TO EXISTING WM

NOTES: GENERAL

- CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
- ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.
- JOB BENCH MARK - REFER TO SURVEY BY ADV. LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
- ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.
- STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
- ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE. PRIOR TO PLACING NEW PAVEMENT, PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R10.
- CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL S01.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
- RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.
- ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSD STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSD 206.310 & 314. MATERIALS TO OPSD 1001.100 & 1010.
- ABUTTING PROPERTY GRADE TO BE MATCHED.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
- FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASIN.
- REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO: ROAD CUT PERMITS, SEWER PERMITS, WATER MAIN PERMITS, ETC.
- AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.
- REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.
- REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.

NOTES: WATERMAIN

- SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
- ALL WATER MAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE UNLESS OTHERWISE REQUIRED. INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23.
- WATER MAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.
- CONCRETE THRU BLOCKS AND RESTRAINING AS PER DETAILS ON DRAWING C103.
- CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER DETAILS ON DRAWING C103.
- IF WATER MAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.
- EXCAVATION, INSTALLATION, AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.

SANITARY MAINTENANCE HOLE DATA

STRUCTURE	COVER	SIZE	STANDARD	T/G	ELEVATION
SA-MH-01	OPSD 401.030	1200mm	OPSD 701.010	68.02	S 66.62 (150mm) E 66.56 (150mm)
SA-MH-02	OPSD 401.030	1200mm	OPSD 701.010	68.11	W 65.92 (150mm) S 66.30 (150mm) E 65.89 (150mm)
SA-MH-03	OPSD 401.030	1200mm	OPSD 701.010	67.98	W 65.61 (150mm) E 65.61 (150mm) N 65.61 (150mm)
SA-MH-04	OPSD 401.030	1200mm	OPSD 701.010	68.02	N 65.56 (150mm) S 65.56 (150mm)
Ex. MHSA30029	EXIST	EXIST	EXIST	68.19	N 65.52 (150mm) S 65.56 (150mm)

STORM MAINTENANCE HOLE DATA

STRUCTURE	COVER	SIZE	STANDARD	T/G	ELEVATION
ST-MH-01S	OPSD 401.010	1200mm	OPSD 701.010	67.37	SE 65.77 (300mm) N 65.74 (300mm)
ST-CBMH-03S	OPSD 401.010	1500mm	OPSD 701.011	67.33	S 65.85 (600mm) NW 65.85 (300mm)
ST-MH-04S	OPSD 401.010	1500mm	OPSD 701.011	68.18	E 65.93 (525mm) N 65.93 (600mm)
ST-CBMH-05S	OPSD 401.010	1200mm	OPSD 701.010	67.52	E 66.01 (450mm) W 66.08 (525mm)
ST-CBMH-06S	OPSD 401.010	1200mm	OPSD 701.010	67.61	E 66.08 (450mm) W 66.08 (450mm)
ST-CBMH-07S	OPSD 401.010	1200mm	OPSD 701.010	67.98	E 66.18 (250mm) N 66.18 (300mm) W 66.18 (450mm)
ST-CB-08S	OPSD 400.020	600x600mm	OPSD 705.010	67.48	W 66.28 (250mm)
Ex. MHST29586	EXIST	EXIST	EXIST	67.19	N 65.64 (375mm) S 65.67 (300mm)
ST-CBMH-02T	OPSD 401.010	1200mm	OPSD 701.010	67.84	E 65.81 (375mm)
ST-CB-03T	OPSD 400.020	600x600mm	OPSD 705.010	67.07	S 65.97 (250mm)
ST-MH-04T	OPSD 401.010	1200mm	OPSD 701.010	67.96	E 65.91 (375mm) W 65.79 (375mm) N 65.73 (300mm)
ST-CBMH-05T	OPSD 401.010	1200mm	OPSD 701.010	67.85	E 66.01 (375mm) W 65.98 (375mm)
ST-CB-06T	OPSD 400.020	600x600mm	OPSD 705.010	67.19	S 66.30 (250mm)
ST-CBMH-07T	OPSD 401.010	1200mm	OPSD 701.010	67.96	E 66.13 (375mm) W 66.13 (375mm)
ST-MH-08T	OPSD 401.010	1200mm	OPSD 701.010	68.11	E 66.15 (250mm) S 66.15 (300mm) W 66.15 (375mm)
ST-CB-09T	OPSD 400.020	600x600mm	OPSD 705.010	67.71	W 66.17 (250mm)

CROSSING TABLE

CROSSING No.	SEWER ELEV. AT CROSSING	WM, TOP. AT CROSSING	CLEARANCE
CR-01	STM, INV. 65.77	WM, TOP. 64.97	0.80m
CR-02	SAN, INV. 66.65	WM, TOP. 65.74	0.91m
CR-03	STM, INV. 65.92	WM, TOP. 65.42	0.50m
CR-04	SAN, INV. 66.31	WM, TOP. 65.68	0.63m
CR-05	SAN, INV. 66.33	WM, TOP. 65.83	0.50m
CR-06	STM, INV. 66.80	STM, OBV. 66.50	0.30m
CR-07	STM, INV. 66.82	SAN, OBV. 65.78	1.04m
CR-08	STM, INV. 66.84	WM, TOP. 65.85	0.99m
CR-09	STM, INV. 66.12	SAN, OBV. 65.74	0.38m
CR-10	STM, INV. 66.13	WM, TOP. 65.58	0.55m
CR-11	STM, INV. 65.64	WM, TOP. 65.14	0.50m
CR-12	STM, INV. 66.16	SAN, OBV. 65.86	0.30m
CR-13	STM, INV. 66.17	WM, TOP. 65.67	0.50m

ICD DATA

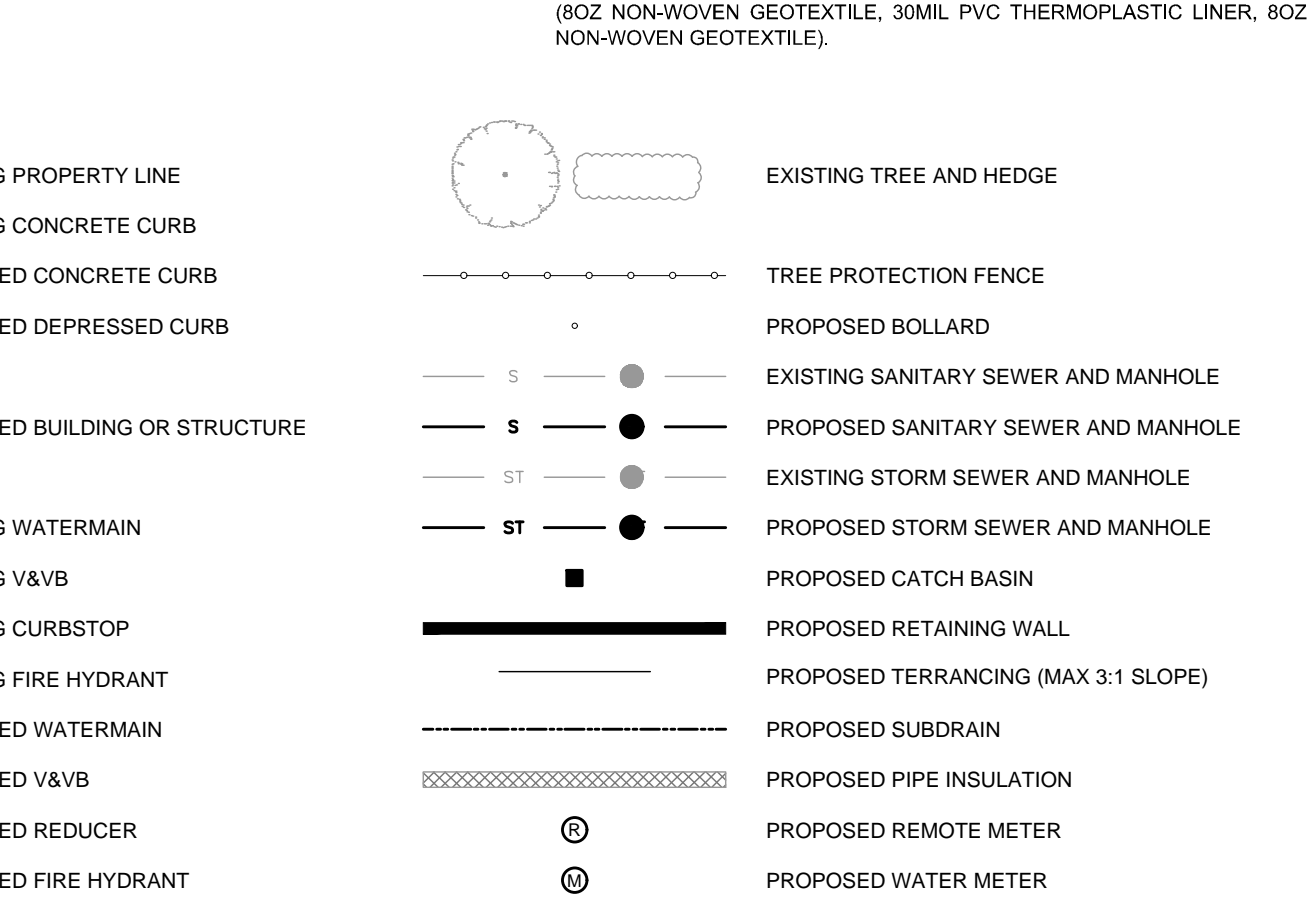
ICD ID	LOCATION	OUTLET DIAMETER	FLOW (L/s)	HEAD	EQUIVALENT DIAMETER	MODEL	STORAGE VOLUME REQUIRED
1	ST-CBMH-03S	300mm	22.2 (100-YEAR) 20.7 (5-YEAR)	0.97m 1.34m	102mm	TEMPEST MHP	158.0 cu.m (100-YEAR) 54.4 cu.m (5-YEAR)
2	ST-MH-04T	300mm	17.2 (100-YEAR) 14.3 (5-YEAR)	0.84m 0.93m	83mm	TEMPEST MHP	79.7 cu.m (100-YEAR) 27.9 cu.m (5-YEAR)

ROOF DRAIN DATA

LOCATION	No. OF DRAINS	CONTROLLED FLOW (L/s)	MAX PONDING DEPTH (mm)	STORAGE VOLUME (cu.m)
BUILDING A	4	0.71	1.35	108.7
BUILDING B	5	0.70	1.33	107.0

SANITARY SEWER DATA

FROM	TO	DIAMETER	MATERIAL	CLASS	LENGTH	INVERT ELEVATIONS
CAP	SA-MH-01	150mm	PVC	SDR-35	7.2m	66.69 66.62
SA-MH-01	SA-MH-02	150mm	PVC	SDR-35	64.3m	66.56 65.92
CAP	SA-MH-02	150mm	PVC	SDR-35	5.4m	66.35 66.30
SA-MH-02	SA-MH-03	150mm	PVC	SDR-35	27.7m	66.89 65.61
CAP	SA-MH-03	150mm	PVC	SDR-35	16.2m	65.77 65.61
SA-MH-03	SA-MH-04	150mm	PVC	SDR-35	6.8m	65.61 65.56
SA-MH-04	Ex. MHSA30029	150mm	PVC	SDR-35	5.5m	65.56 65.52



STORM SEWER DATA

LOCATION	FROM	TO	DIAMETER	MATERIAL	CLASS	LENGTH	INVERT ELEVATIONS
ST-MH-01S	Ex. MHST29908		300mm	PVC	SDR-35	9.0m	65.74 65.71
ST-OGS-02S	ST-MH-01S		300mm	PVC	SDR-35	8.9m	65.80 65.77
ST-CBMH-03S	ST-OGS-02S		300mm	PVC	SDR-35	5.9m	65.85 65.83
ST-MH-04S	ST-CBMH-03S		600mm	CONC	50-D	32.3m	65.93 65.85
ST-CBMH-05S	ST-MH-04S		525mm	CONC	50-D	38.6m	66.01 65.93
ST-CBMH-06S	ST-CBMH-05S		450mm	CONC	50-D	33.3m	66.08 66.01
ST-CBMH-07S	ST-CBMH-06S		450mm	CONC	50-D	48.1m	66.18 66.08
CAP	ST-CBMH-07S		300mm	PVC	SDR-35	3.3m	66.19 66.18
ST-CB-08S	ST-CBMH-07S		250mm	PVC	SDR-35	24.0m	66.28 66.18