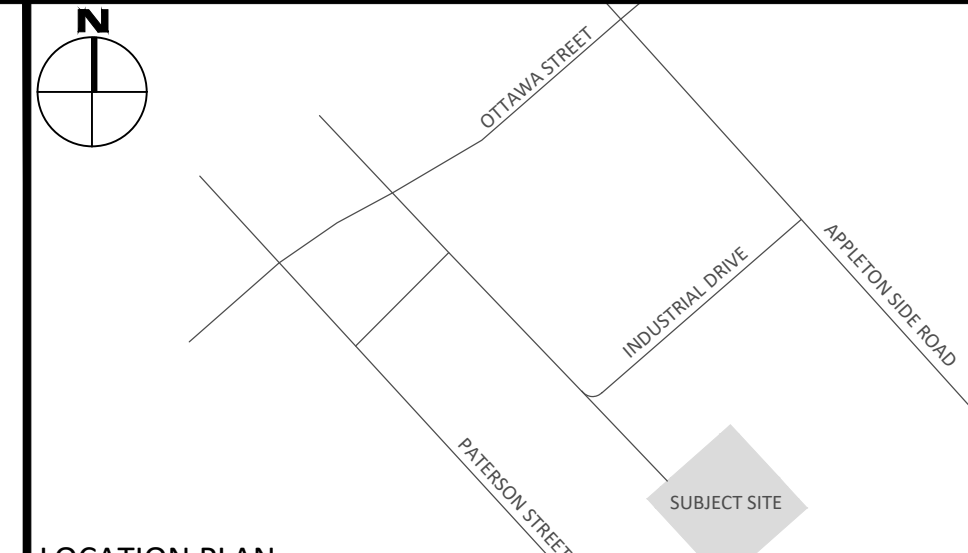


STORM STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
CB1	138.29		SW136.91	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB2	138.39		SW137.01	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB3	138.49		SW137.11	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB4	138.02		SW136.64	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB5	138.02		SW136.64	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB6	138.02		SE137.66	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB7	138.14		NW136.83	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB8	138.15		SE136.73	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB9	138.02		E136.64	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB10	138.10		SW136.64	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB11	138.02		SW136.64	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB12	138.04		SW136.66	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB13	138.04		NE136.56	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB14	138.02		SW136.64	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB15	138.02		NE136.54	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB16	138.01		SW136.63	FRAME OPSD 400.020 STRUC. OPSD 705.010
CB17	138.01		NE136.53	FRAME OPSD 400.020 STRUC. OPSD 705.010
CBMH3	138.02		NE135.87 SE136.67 NW137.33	COVER TYPE B FRAME OPSD 401.010 STRUC. OPSD 701.010
CBMH5	138.02		NW136.49	COVER TYPE B FRAME OPSD 401.010 STRUC. OPSD 701.010
CBMH7	137.94		NW136.76	COVER TYPE B FRAME OPSD 401.010 STRUC. OPSD 701.010
CBMH8	138.26		NE136.94	COVER TYPE B FRAME OPSD 401.010 STRUC. OPSD 701.010
LCB1	138.25		SE137.25	CITY OF OTTAWA STANDARD S31

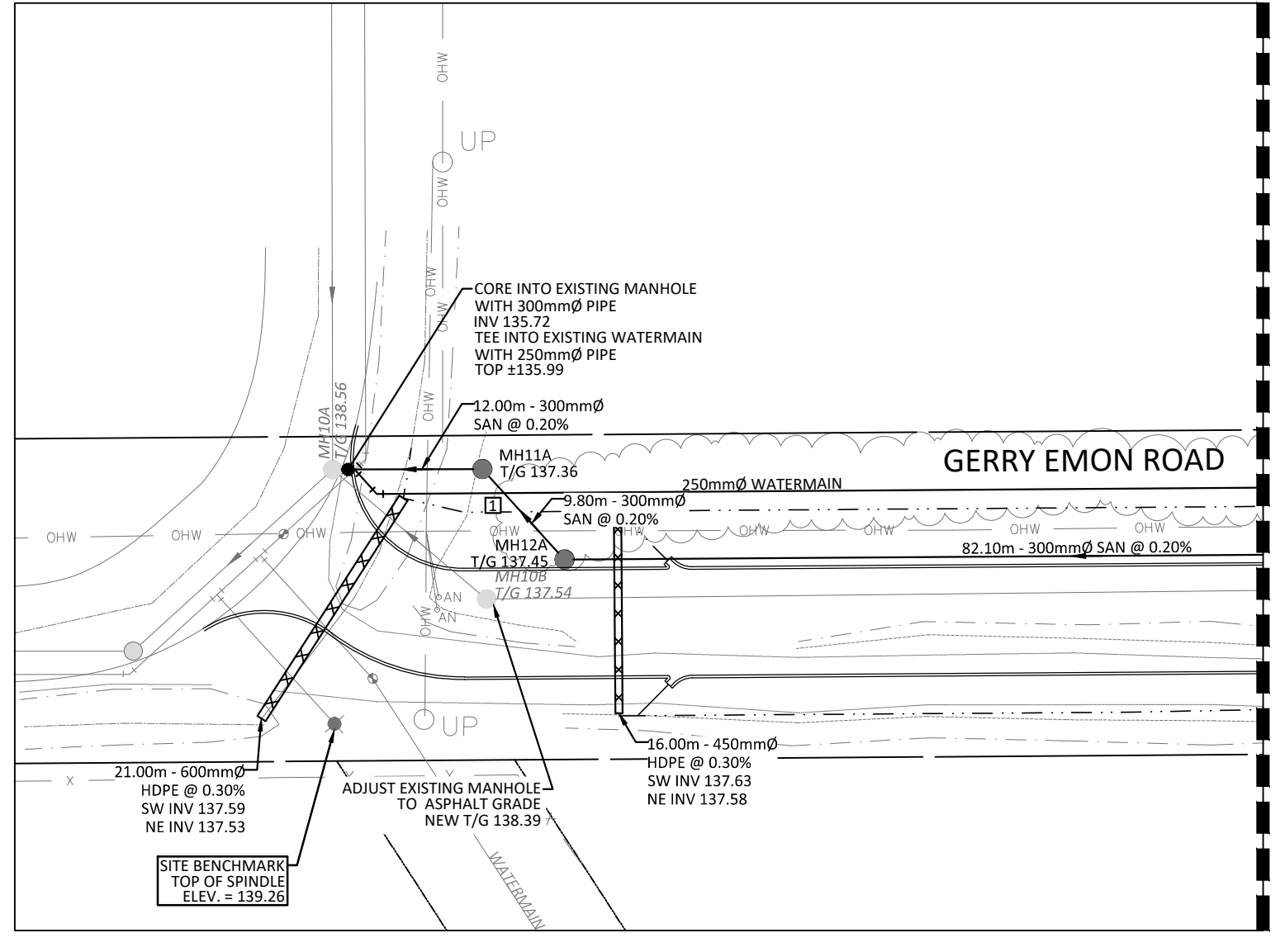
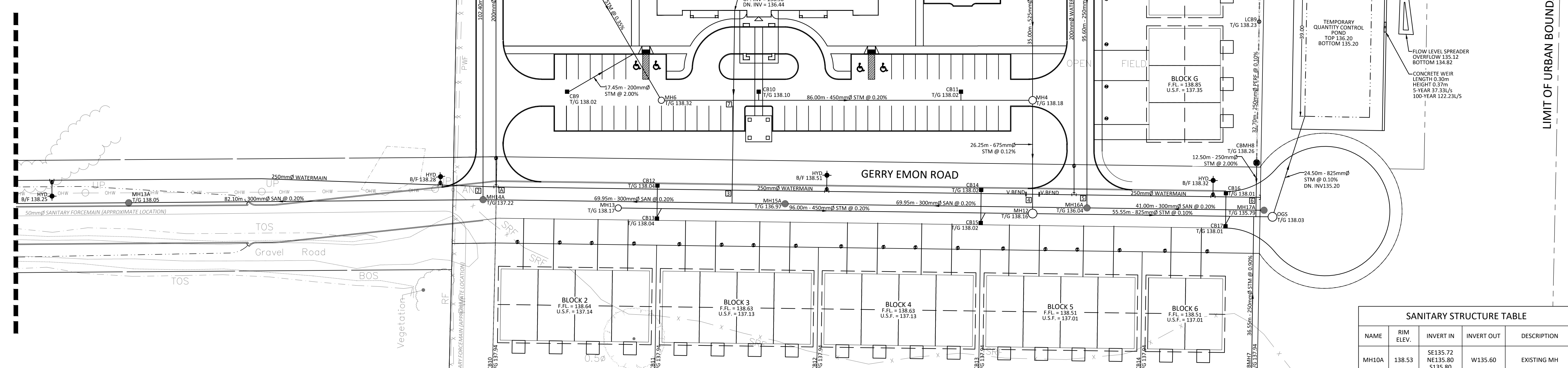
STORM STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
LCB2	138.25		NW137.21	CITY OF OTTAWA STANDARD S30
LCB3	138.25		NW137.18	CITY OF OTTAWA STANDARD S30
LCB4	138.25		NW137.14	CITY OF OTTAWA STANDARD S30
LCB5	138.25		NW137.10	CITY OF OTTAWA STANDARD S30
LCB6	138.70		NW137.07	CITY OF OTTAWA STANDARD S30
LCB7	138.45		NE137.04	CITY OF OTTAWA STANDARD S30
LCB8	138.33		NE137.01	CITY OF OTTAWA STANDARD S30
LCB9	138.23		NE136.97	CITY OF OTTAWA STANDARD S30
LCB10	137.94		SE136.94	CITY OF OTTAWA STANDARD S31
LCB11	137.94		NW136.90	CITY OF OTTAWA STANDARD S30
LCB12	137.94		NW136.86	CITY OF OTTAWA STANDARD S30
LCB13	137.94		NW136.83	CITY OF OTTAWA STANDARD S30
LCB14	137.94		NW136.79	CITY OF OTTAWA STANDARD S30
MH1	138.18		SE136.26	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH2	138.35		NW136.02	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH4	138.18		NW135.74 NE135.67	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.011
MH6	138.32		N136.06	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH12	138.16		NW135.71 NE135.49	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.012
MH13	138.17		SE135.90	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
OGS	138.03		NW135.28	OGS UNIT

CROSSING CONFLICT TABLE		
LOCATION	DESCRIPTION	SEPARATION
1	300mm SAN SEWER INV 135.78 250mm WATERMAIN OBV 135.07	0.71
2	250mm SAN SEWER INV 135.22 250mm WATERMAIN OBV 135.88	0.34
3	150mm SAN SERVICE INV 136.47 250mm WATERMAIN OBV 135.76	0.71
4	450mm STM SEWER INV 135.45 250mm WATERMAIN OBV 135.15	0.30
5	250mm SAN SEWER INV 136.53 450mm STM SEWER INV 135.95	0.75
6	250mm WATERMAIN OBV 135.61 250mm STM SEWER INV 135.95	0.34
7	250mm WATERMAIN OBV 135.61 450mm STM SEWER INV 135.92	0.36
8	375mm STM SEWER INV 135.92 150mm WATER SERVICE OBV 135.62	0.30

WATER COVER TABLE				
LOCATION	STATION	FINISHED GRADE	TOP OF PIPE	COVER
A - 250 X 200 TEE	1+000.00		138.38	2.40
VALVE	1+006.70	138.38	135.98	2.40
45° BEND	1+089.48	138.44	136.04	2.40
45° BEND	1+099.29	138.52	136.12	2.40
HYDRANT	1+144.63	138.50	136.10	2.40
45° BEND	1+219.34	138.63	136.23	2.40
45° BEND	1+229.11	138.54	136.14	2.40
HYDRANT	1+240.35	138.41	136.01	2.40
B - 200 X 150 TEE	1+245.90	138.35	135.95	2.40
VALVE	1+313.75	138.27	135.87	2.40
250 X 200 TEE	1+320.45	138.17	135.77	2.40
B - 200 X 150 TEE	2+000.00	138.35	135.95	2.40
VALVE	2+001.00	138.34	135.94	2.40
VERTICAL BEND	2+008.40	138.35	135.95	2.40
VERTICAL BEND	2+010.78	138.35	135.95	2.40
BUILDING	2+046.45	138.35	135.95	2.40



LEGEND	
DC	CONCRETE BARRIER CURB
---	DEPRESSED CURB
---	MOUNTABLE CURB
---	EASEMENT
○	STORM MANHOLE
○	CATCHBASIN OR DITCH INLET
○	LANDSCAPE CATCHBASIN
○	SANITARY MANHOLE
○	PERFORATED PIPE
○	WATER VALVE/CHAMBER
○	FIRE HYDRANT
○	SILT FENCE (AS PER OPSD 219.110)
○	SEDIMENT CONTROL DEVICE
○	STRAM BALE CHECK DAM (AS PER OPSD 219.180)
---	CENTERLINE OF SWALE
---	CENTERLINE OF DITCH
---	SLOPING AT 3:1 (UNLESS SPECIFIED)
---	PROPOSED ELEVATION
---	EXISTING ELEVATION
---	SWALE ELEVATION
---	TOP OF WALL ELEVATION
---	BOTTOM OF WALL ELEVATION
---	F.F.L. FINISHED FLOOR
---	T.F.D. TOP OF FOUNDATION
---	UNDERSIDE OF FOOTING
---	EMERGENCY OVERLAND FLOW ROUTE



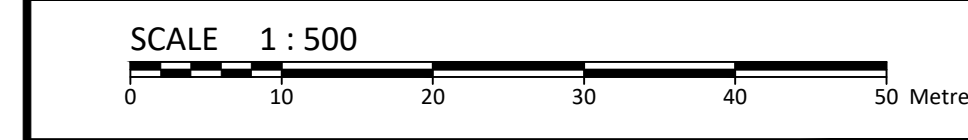
- SEWER NOTES**
- CONSTRUCT ALL SEWERS AND APPURTENANCES TO CITY OR MUNICIPAL STANDARDS (IF AVAILABLE) OR AS PER OPSD STANDARDS.
 - SEWER TRENCHING AND BEDDING SHALL CONFORM TO OPSD 802.010 AND 802.013 UNLESS NOTED OTHERWISE.
 - BEDDING SHALL BE A MINIMUM 150mm OF GRANULAR "A", COMPACTED TO MINIMUM 95% STANDARD PROCTOR DRY DENSITY. CLEAR STONE BEDDING SHALL NOT BE PERMITTED.
 - SUB-BEDDING, IF REQUIRED SHALL BE AS PER THE DIRECTION OF A GEOTECHNICAL ENGINEER.
 - BACKFILL TO AT LEAST 300mm ABOVE TOP OF PIPE WITH GRANULAR "A" OR SAND.
 - TO MINIMIZE DIFFERENTIAL FROST HEAVING, TRENCH BACKFILL (FROM PAVEMENT SUBGRADE TO 2.0m BELOW FINISHED GRADE) SHALL MATCH EXISTING SOIL CONDITIONS.
 - SEWERS AND CONNECTIONS 150mm DIAMETER AND SMALLER TO BE PVC SDR 28 OR APPROVED EQUIVALENT. SEWERS AND CONNECTIONS 200mm DIAMETER AND LARGER TO BE PVC SDR 35 OR APPROVED EQUIVALENT.
 - INSULATE ALL SEWERS AND/OR SERVICES THAT HAVE LESS THAN 1.5m OF COVER WITH THERMAL INSULATION AS PER OPSD 1109.030.
 - INSTALL AND INSTALL ALL PIPING AND APPURTENANCES AS SHOWN AND DETAILED TO WITHIN 1.0m OF BUILDING. ALL ENDS OF SERVICES TO BE PROPERLY CAPPED AND LOCATED WITH 2"x4"x8" LONG MARKER.
 - CONTRACTOR TO TELETYPE (CTV) ALL PROPOSED SEWERS ON-SITE, OUTLET CONNECTION TO THE MAIN AND PIPES 150mm OR GREATER PRIOR TO BASE COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS & APPURTENANCES.
 - DEYE TESTING IS TO BE COMPLETED ON SANITARY SERVICE TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN.
 - ALL CATCHBASINS AND CATCHBASIN MANHOLES LEADS ARE TO BE MINIMUM 200mm WITH MINIMUM 1.0% SLOPE UNLESS OTHERWISE NOTED.
 - ALL CATCHBASINS EXCLUDING LANDSCAPE CATCHBASINS ARE TO HAVE 150 mm PERFORATED PIPE FOR 3.0m ON ALL AVAILABLE SIDES AS PER CITY OF OTTAWA STANDARD DRAWING "R1".

- WATERMAIN NOTES**
- CONSTRUCT ALL WATERMANS AND APPURTENANCES IN ACCORDANCE WITH OPSD STANDARDS AND SPECIFICATIONS, AS WELL AS CITY OR MUNICIPAL STANDARDS.
 - INDUSTRIAL/COMMERCIAL SERVICE CONNECTIONS TO BE 50mm COPPER PIPING AND SHALL CONFORM TO ASTM B88 TYPE "K" SOFT.
 - WATERMANS AND/OR WATER SERVICES ARE TO HAVE A MINIMUM COVER OF 2.4m. OTHERWISE THERMAL INSULATION IS REQUIRED AS PER CITY OR MUNICIPAL STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
 - IF THE WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS EQUAL TO OR LESS THAN THAT WHICH IS RECOMMENDED BY THE MANUFACTURER.
 - USE APPROVED SADDLE CONNECTION WITH MAIN (CORPORATION) STOP AS PER CITY OF OTTAWA STANDARD DRAWING "W26".
 - ALL CONNECTIONS TO EXISTING MAINS ARE TO BE COORDINATED WITH THE MUNICIPALITY A MINIMUM OF 72 HOURS IN ADVANCE TO ARRANGE FOR A MUTUALLY ACCEPTABLE DATE AND TIME. CONNECTIONS ARE TO BE PERFORMED BY THE CONTRACTOR IN THE PRESENCE OF A LICENSED MUNICIPAL STAFF. THE CONNECTIONS SHALL BE SCHEDULED SO AS TO REDUCE INCONVENIENCE AND DISRUPTIONS TO PROPERTY OWNERS AND TRAFFIC. ALL CONNECTIONS SHALL BE MADE IN ACCORDANCE WITH ANS/AWWA C651-05.
 - THERMAL INSULATION OF WATERMANS AT OPEN STRUCTURES AS PER CITY OR MUNICIPAL STANDARDS (IF AVAILABLE) OR OPSD 1109.030.
 - THERMAL INSULATION OF WATERMANS UNDER ROAD SIDE DITCHES AS PER CITY OF OTTAWA STANDARD DRAWING "W21".
 - ALL SWABBING, CHLORINATION, PRESSURE TESTING AND BACTERIOLOGICAL TESTING SHALL BE COMPLETED PRIOR TO CONNECTION TO THE EXISTING DRINKING WATER SYSTEM, TO THE SATISFACTION OF THE MUNICIPALITY AS PER AWWA STANDARDS.

FOR REVIEW ONLY
NOT FOR CONSTRUCTION

No.	Revisions	Date
1	ISSUED FOR MUNICIPAL REVIEW	JUL 28, 2021

Check and verify all dimensions before proceeding with the work. Do not scale drawings.



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Client: **HOUCAIMI HOLDINGS INC.**
21 HAMPEL CRESCENT
STITTSVILLE, ON K2S 1E4

Project: **MILL VALLEY RETIREMENT COMMUNITY**

Drawing Title: **GENERAL PLAN OF SERVICES**

Scale: 1:500 Project Number: CCO-20-0034

Drawn By: P.G.K. Checked By: R.P.K. Designed By: P.G.K.

SANITARY STRUCTURE TABLE				
NAME	RIM ELEV.	INVERT IN	INVERT OUT	DESCRIPTION
MH10A	138.53	SE135.72 NE135.80 S135.80	W135.60	EXISTING MH
MH10B	137.38	SE135.96	N135.93	EXISTING MH
MH11A	137.36	S135.77	NW135.74	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH12A	137.45	SE135.82	N135.79	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH13A	138.05	SE136.00	NW135.99	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH14A	137.22	SE136.17 NE136.21	NW136.16	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH15A	136.97	SE136.33	NW136.31	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH16A	136.04	NE136.52 SE136.48	NW136.47	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH17A	135.79		NW136.56	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH21A	136.96	SE136.50	SW136.47	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH22A	136.69	SE136.69	NW136.66	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH23A	136.18		NW136.86 S136.82	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010
MH24A	136.13	N136.79	SW136.76	COVER TYPE A FRAME OPSD 401.010 STRUC. OPSD 701.010

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