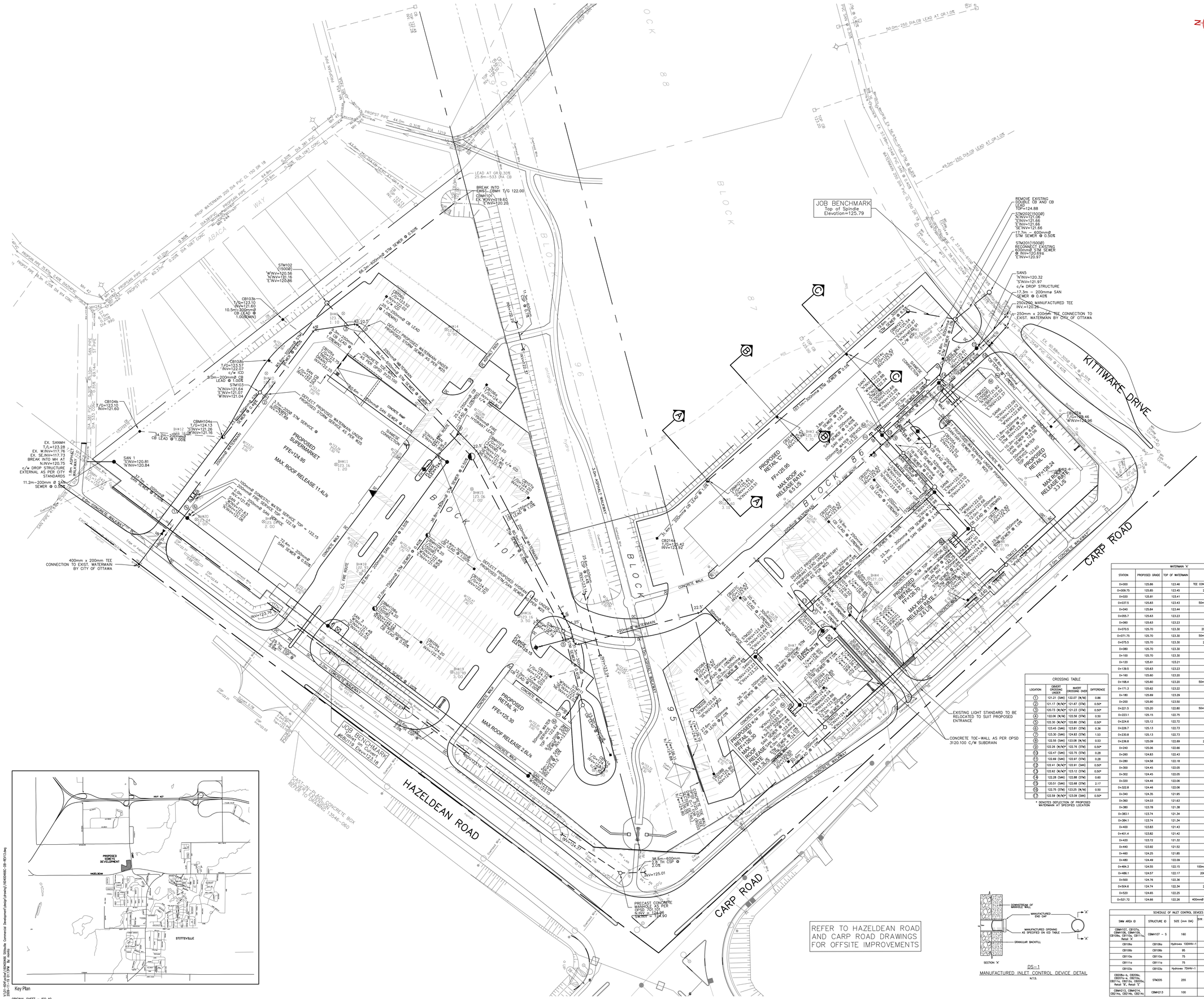

CROSSING TABLE			
LOCATION	CONST. CROSSING UNDER	WATER CROSSING OVER	DIFFERENCE
1	121.21 (SAN)	122.07 (W/M)	0.86
2	121.17 (W/M)*	121.67 (STM)	0.50*
3	120.73 (W/M)*	121.23 (STM)	0.50*
4	122.06 (W/M)	122.56 (STM)	0.50
5	122.30 (W/M)*	122.80 (STM)	0.50*
6	123.45 (SAN)	123.81 (STM)	0.36
7	123.30 (SAN)	124.83 (STM)	1.53
8	122.55 (SAN)	123.08 (W/M)	0.53
9	122.26 (W/M)*	122.76 (STM)	0.50*
10	122.47 (SAN)	122.75 (STM)	0.28
11	122.69 (SAN)	122.97 (STM)	0.28
12	122.41 (W/M)*	122.91 (SAN)	0.50*
13	122.62 (W/M)*	123.12 (STM)	0.50*
14	122.28 (SAN)	122.88 (STM)	0.60
15	120.51 (SAN)	122.68 (STM)	2.17
16	122.75 (STM)	123.25 (W/M)	0.50
17	122.59 (W/M)*	123.09 (SAN)	0.50*

* DENOTES DEFLECTION OF PROPOSED WATERMAIN AT SPECIFIED LOCATION

WATERMAIN 'A'			
STATION	PROPOSED GRADE	TOP OF WATERMAIN	DESCRIPTION
0+000	125.88	123.46	TEE CONNECT TO EXISTING (KITTIWAKE)
0+009.75	125.85	123.45	200mmØ VALVE & BOX
0+020	125.81	123.41	
0+037.5	125.83	123.43	50mmØ WATER SERVICE (TVS)
0+040	125.84	123.44	
0+055.7	125.63	123.23	FIRE HYDRANT TEE
0+060	125.63	123.23	
0+070.5	125.70	123.30	200mmØ x 200mmØ TEE
0+071.75	125.70	123.30	50mmØ WATER SERVICE (TVS)
0+075.5	125.70	123.30	200mmØ VALVE & BOX
0+080	125.70	123.30	
0+100	125.70	123.30	
0+120	125.61	123.21	
0+139.5	125.63	123.23	FIRE HYDRANT TEE
0+160	125.60	123.20	
0+168.4	125.60	123.20	50mmØ WATER SERVICE (TVS)
0+171.3	125.62	123.22	22.5° BEND
0+180	125.69	123.29	
0+200	125.90	123.50	
0+221.5	125.20	122.80	50mmØ WATER SERVICE (TVS)
0+223.1	125.15	122.75	45° BEND
0+224.6	125.12	122.72	45° BEND
0+226.7	125.13	122.73	FIRE HYDRANT TEE
0+230.8	125.13	122.73	11.25° BEND
0+236.8	125.09	122.69	200mmØ VALVE & BOX
0+240	125.06	122.66	
0+260	124.83	122.43	
0+280	124.58	122.18	
0+300	124.45	122.05	
0+302	124.45	122.05	22.5° BEND
0+320	124.46	122.06	
0+322.8	124.46	122.06	FIRE HYDRANT TEE
0+340	124.35	121.95	
0+360	124.03	121.63	
0+380	123.78	121.38	
0+383.1	123.74	121.34	22.5° BEND
0+384.1	123.74	121.34	45° BEND
0+400	123.83	121.43	
0+401.4	123.82	121.42	45° BEND
0+420	123.72	121.32	
0+440	123.92	121.52	
0+460	124.25	121.85	
0+480	124.49	122.09	
0+484.3	124.55	122.15	100mmØ DOMESTIC SERVICE TEE
0+486.1	124.57	122.17	200mmØ FIRE SERVICE TEE
0+500	124.76	122.36	
0+504.6	124.74	122.34	200mmØ VALVE & BOX
0+520	124.65	122.25	
0+521.72	124.66	122.26	400mmØ TVS CONNECTION (HAZELDEAN)

SCHEDULE OF INLET CONTROL DEVICES				
SWM AREA ID	STRUCTURE ID	SIZE (mm DIA)	SYR RELEASE RATE (L/s)	100YR RELEASE RATE (L/s)
CBMH127, CB107a, CBMH126, CBMH128, CB109b, CB111a, Retail 'A'	CBMH107 – S	160	87.8	89.4
CB106a	CB106a	Hydrowex 100MM-1	8.0	8.0
CB106b	CB106b	95	24.6	25.3
CB110c	CB110c	75	8.9	8.9
CB111a	CB111a	75	8.9	8.9
CB103a	CB103a	Hydrowex 75MM-1	4.0	4.0
CB208b-a, CB208a, CB207a-a, CB210a, CB211a, CB212a, CB205a, Retail 'B', Retail 'E'	STM205	255	229.7	233.8
CBMH213, CBMH214, CB214a, CB214b, CB214c	CBMH213	100	34.6	35.3

DS-1
MANUFACTURED INLET CONTROL DEVICE DETAIL
N.T.S.

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Legend

- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED CROSSING (SEE TABLE)
- PROPOSED WATERMAIN
- PROPOSED HYDRANT
- PROPOSED VALVE CHAMBER
- PROPOSED VALVE BOX
- PROPOSED FENCE (SEE ARCHITECTURE / LANDSCAPING DRAWINGS)
- 126.24 / bh0121 — BOREHOLE NO, ELEVATION AND DEPTH, DEPTH / END OF BOREHOLE AMEC 2007 INVESTIGATION; AMEC EARTH & ENVIRONMENTAL REPORT# TJ7007 18 OCTOBER, 2007
- BH#18 / 120.93 / 2.40 — BOREHOLE NO, ELEVATION AND DEPTH, DEPTH / END OF BOREHOLE AMEC 2004 INVESTIGATION; AMEC EARTH & ENVIRONMENTAL REPORT# TH029 22 APRIL, 2004

Notes

GENERAL NOTES

1 ALL WORK SHALL BE CARRIED OUT IN COMPLIANCE WITH THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.

2 ALL WORK AND MATERIALS TO CONFORM WITH CURRENT MINISTRY OF THE ENVIRONMENT & ENERGY OF ONTARIO, CITY OF OTTAWA AND ONTARIO PROVINCIAL STANDARD AND SPECIFICATIONS. LOCAL UTILITY STANDARDS AND MINISTRY OF TRANSPORTATION STANDARDS WILL APPLY WHERE REQUIRED.

3 THE CONTRACTOR IS ADVISED THAT WORKS BY OTHERS MAY BE ONGOING DURING THE PERIOD OF THIS CONTRACT. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES AND COORDINATION WITH ALL OTHER CONTRACTORS AND PRESENT CONSTRUCTION CONFLICTS.

4 THE INFORMATION SHOWN FOR EXISTING UTILITIES WAS PROVIDED BY OTHERS, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES DURING CONSTRUCTION. ALL EXISTING UTILITIES MUST BE LOCATED AND VERIFIED BY EACH UTILITY PRIOR TO COMMENCEMENT OF WORK. ANY DAMAGE TO UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR. CONTRACTOR TO CONFIRM UTILITY LOCATIONS AND NOTIFY THE ENGINEER OF POSSIBLE CONFLICTS PRIOR TO CONSTRUCTION WILL BE AT THE CONTRACTORS EXPENSE.

5 ALL CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT.

6 THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED AND TO BEAR THE COST OF SAME INCLUDING WATER PERMIT AND ASSOCIATED COSTS.

7 ALL DISTURBED AREAS SHALL BE REINSTATED TO EQUAL OR BETTER CONDITION TO THE SATISFACTION OF THE CONSULTANT AND THE RESPECTIVE AUTHORITIES RESPONSIBLE FOR SEWAGS AND UTILITY CUTS SHALL BE IN ACCORDANCE WITH OPSD 509.010 AND OPSD 310.

8 FOR DETAILS RELATING TO STORMWATER MANAGEMENT AND ROOF DRAINAGE, SEE THE STORMWATER MANAGEMENT REPORT PREPARED BY STANTEC CONSULTING LTD. ROOF DRAINAGE TO BE PROVIDED VIA RESTRICTED RELEASE ROOF DRAINS AS DETAILED IN THE REPORT.

9 BENCHMARKS: IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THAT THE SITE BENCHMARK(S) HAS NOT BEEN ALTERED OR DISTURBED AND THAT ITS RELATIVE ELEVATION AND DESCRIPTION AGREES WITH THE INFORMATION SHOWN ON DRAWING GP-1.

WATERMAIN

1 WATERMAIN SHALL BE POLYVINYL CHLORIDE (PVC) CLASS 150 DR-18 PIPE MANUFACTURED TO AWWA C900/AWWA AND CSA CAN/ B137.3-M1986 WITH GASKETED BELL END C/W 8 #14 AWG SOLID COPPER TRACER WIRE.

2 ALL WATERMAINS, WATER SERVICES, CONNECTIONS AND APPURTENANCES AS PER CITY OF OTTAWA STANDARDS. THE CONTRACTOR SHALL CO-ORDINATE AND PAY ALL RELATED COSTS INCLUDING THE INSPECTION AND CHLORINATION/BACTERIOLOGICAL TESTING BY CITY OF OTTAWA PERSONNEL. WORKS TO BE IN ACCORDANCE WITH CITY OF OTTAWA W17.

3 ALL WATERMAINS SHALL HAVE MIN. COVER OF 2.4m. WATERMAINS ARE TO BE INSTALLED TO THE ELEVATIONS SHOWN ON THE APPROVED SITE SERVICING DRAWING. WHERE SPECIFIC WATERMAIN ELEVATIONS ARE NOT SHOWN ON SERVICING DRAWINGS, A MINIMUM COVER OF 2.4m FROM PROPOSED GRADE SHALL BE MAINTAINED. WHERE WATERMAIN CROSSES SEWERS AND WHERE THE MINIMUM 2.4m MEAS COVER TO BE FROM PROPOSED ELEVATIONS, ADEQUATE FROST PROTECTION TO BE PROVIDED PER CITY OF OTTAWA STANDARDS WHERE DEPTH OF COVER OVER TOP OF WATERMAINS IS LESS THAN 2.4m.

4 ALL WATERMAIN BENDS, JOINTS, TEES AND PLUGS SHALL BE MECHANICALLY RETRAINED IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS.

5 ALL FIRE HYDRANT INSTALLATIONS SHALL BE PER CITY OF OTTAWA W19. HYDRANTS SHALL BE PAINTED IN ACCORDANCE WITH OTTAWA STANDARDS. CONTRACTOR SHALL HYDRANTS AS DIRECTED BY LOCAL FIRE DEPARTMENT.

6 ALL BOTTOM OF HYDRANT FLANGE ELEVATIONS TO BE INSTALLED 0.15m ABOVE PROPOSED FINISHED GRADE AT HYDRANT.

7 BUILDING SERVICE TO BE CAPPED 2.0m OFF THE FACE OF THE BUILDING UNLESS OTHERWISE NOTED AND MUST BE RESTRAINED A MINIMUM OF 10m BACK FROM STUB.

8 WATERMAINS MUST COMPLY WITH MINIMUM HORIZONTAL AND VERTICAL CLEARANCES IN ACCORDANCE WITH LOCAL PROVINCIAL GUIDELINES AND THE APPLICABLE BUILDING AND PLUMBING CODE. WHERE WATERMAINS CROSS SEWERS, THE MINIMUM VERTICAL CLEARANCE AS ENGINEER MUST BE OBTAINED AND A MINIMUM 500mm VERTICAL SEPARATION MUST BE MAINTAINED.

9 ALL WATERMAINS SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES UNLESS OTHERWISE DIRECTED. PROVISIONS FOR FLUSHING WATER LINE PRIOR TO TESTING, ETC MUST BE PROVIDED.

10 ALL WATERMAINS SHALL BE BACTERIOLOGICALLY TESTED IN ACCORDANCE WITH THE CITY OF OTTAWA AND ONTARIO GUIDELINES. ALL CHLORINATED WATER TO BE DISCHARGED AND PRETREATED TO ACCEPTABLE LEVELS PRIOR TO DISCHARGE. ALL DISCHARGED WATER MUST BE CONTROLLED AND DIRECTED SO AS NOT TO ADVERSELY EFFECT THE ENVIRONMENT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL MUNICIPAL AND/OR PROVINCIAL REGULATIONS ARE FOLLOWED.

11 ALL WATERMAIN STUBS SHALL BE TERMINATED WITH A PLUG AND 50mm BLOW OFF UNLESS OTHERWISE NOTED.

12 CATHODIC PROTECTION PER CITY OF OTTAWA W40 AND W42.

STORM AND SANITARY SEWERS

1 STORM AND SANITARY MANHOLES SHALL BE IN ACCORDANCE WITH OPSD 701.010 TO 701.014. STORM MANHOLES TO HAVE FRAME AND COVER PER OPSD 401.030. CATCH BASIN MANHOLES TO HAVE FRAME AND GRATE PER OPSD 400.020 UNLESS OTHERWISE SPECIFIED. CATCH BASIN LEADS TO HAVE MINIMUM GRADE OF 1.0% OPSD 401.030. SAFETY PLATFORM TO BE INSTALLED IN ALL MANHOLES WHERE DEPTH EXCEEDS 3.0m.

2 ALL CATCH BASINS TO BE PRECAST TO OPSD 705.010 c/w FRAME AND GRATE AS PER OPSD 400.020.

3 SEWER TRENCH SHALL CONSIST OF CLASS 'B' BEDDING PER CITY OF OTTAWA STANDARDS S6 AND S7. COMPACTION SHALL BE A MINIMUM OF 95% STANDARD PROCTOR DENSITY.

4 ALL STORM SEWER PIPES UP TO 450mm DIA. SHALL BE PVC SDR-35 OR APPROVED EQUIVALENT. ALL STORM SEWER PIPES 525mm DIA. AND LARGER SHALL BE CONCRETE AND EQUAL TO C.S.A. SPECIFICATIONS A257.2 REINFORCED CLASSES AS SPECIFIED (65-D, 100-D, 140-D) OR LATEST AMENDMENT UNLESS OTHERWISE SPECIFIED.

5 ALL SANITARY PVC SEWER PIPES SHALL BE SDR-35 EQUAL TO CSA SPECIFICATIONS B182.2-M1990 OR LATEST AMENDMENT UNLESS OTHERWISE NOTED.

6 ALL MANHOLE AND CATCH BASIN EXCAVATIONS TO BE BACKFILLED WITH GRANULAR MATERIAL COMPACTED TO 98% STANDARD PROCTOR DENSITY.

7 STORM MANHOLES SHALL NOT BE BENCHED UNLESS OTHERWISE SPECIFIED. SANITARY MANHOLES SHALL BE BENCHED TO CROWN OF PIPE. DEPTH OF BENCHING TO BE 230mm OR AS SPECIFIED ON DRAWINGS. GRANULAR 'A' SHALL BE PLACED TO A MIN. THICKNESS OF 300mm AROUND ALL STRUCTURES IN PAVED AREAS. MANHOLE STEPS TO BE INSTALLED PER OPSD 1003.01.

8 "MODULOC" OR APPROVED PRE-CAST MANHOLE AND CATCH BASIN ADJUSTERS TO BE USED IN LIEU OF BRICKING. PARGE ADJUSTING UNITS ON THE OUTSIDE ONLY.

9 FOR CONSTRUCTION DETAILS NOT SHOWN ON PLANS, REFERENCE SHALL BE MADE TO THE ONTARIO PROVINCIAL STANDARDS DRAWINGS AND MUNICIPAL STANDARDS.

10 SEWERS TO BUILDINGS TO BE TERMINATED 1.5m FROM THE OUTSIDE FACE OF BUILDING UNLESS OTHERWISE NOTED.

11 ALL SINGLE CATCH BASIN LEADS TO BE 200mmØ PVC, SDR-35 OR APPROVED EQUIVALENT UNLESS OTHERWISE SPECIFIED. CATCH BASIN LEADS TO HAVE MINIMUM GRADE OF 1.0%.

12 ALL CATCH BASIN LEAD INVERTS TO BE 1.5m BELOW FINISHED GRADE UNLESS OTHERWISE SPECIFIED.

13 THE CONTRACTOR IS TO PROVIDE CCTV CAMERA INSPECTIONS OF ALL SANITARY AND STORM SEWERS, INCLUDING INTERNAL REVIEW, ONE (1) CD COPY AND TWO (2) VIDEO TAPES IN A FORMAT SATISFACTORY TO THE CONSULTANT. ALL SEWERS ARE TO BE FLUSHED PRIOR TO CAMERA INSPECTION. ASPHALT BASE COURSE SHALL NOT BE PLACED UNTIL THE VIDEO INSPECTION OF SEWERS & NECESSARY REPAIRS HAVE BEEN CARRIED OUT TO THE SATISFACTION OF THE CONSULTANT.

14 LASER ALIGNMENT CONTROL TO BE UTILIZED ON ALL SEWER INSTALLATIONS.

15 EXISTING MANHOLES TO BE RE-BENCHED WHERE A NEW CONNECTION IS MADE.

16 FROST PROTECTION TO BE PROVIDED PER CITY OF OTTAWA STANDARDS WHERE DEPTH OF COVER OVER TOP OF SEWERS IS LESS THAN 2.0m.

17 ALL CATCH BASINS AND CATCH BASIN MANHOLES TO HAVE 0.6m LONG SUB-DRAINS, HEADING OUT IN 4 DIRECTIONS IN PAVING AREAS AND UNDER SIDEWALKS ADJACENT TO BUILDING. THE SUB-DRAIN PIPES SHOULD BE SURROUNDED BY GRANULAR 'A' DRAINAGE ZONE OF MIN. 150mm THICKNESS, WHICH SHOULD HAVE NON-WOVEN GEOTEXTILE WRAP=AROUND.

18 CONTRACTOR SHALL PERFORM LEAKAGE TESTING, IN THE PRESENCE OF THE CONSULTANT, FOR ALL SANITARY SEWERS AND WATERMAINS PRIOR TO THE ASSUMPTION BY THE CITY. A COPY OF THE INSPECTION REPORT SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW.

19 STORM SEWER INLET CONTROL DEVICES TO BE INSTALLED AS OUTLINED IN THE ICD SCHEDULE ON THIS DRAWING. ALL INLET CONTROL DEVICES TO BE INSTALLED AT THE DOWNSTREAM MANHOLE OR CATCH BASIN INVERT.

20 SUBDRAINS SPECIFIED IN LANDSCAPING AREAS SHALL CONFORM TO CITY OF OTTAWA STANDARD SPECIFICATIONS AND STANDARD DRAWINGS S29, S30, AND S31.

Revision	By	Appd.	YY.MM.DD
13 REVISED SITE PLAN	NI	TJW	09.11.19
12 REVISED SITE PLAN	DCT	RMW	09.09.17
11 REVISED SITE PLAN	DCT	RMW	09.07.28
10 RETAINING WALL AT RETAIL 'E'	DCT	RMW	08.12.18
9 RESUBMIT FOR SITE PLAN APPROVAL	DCT	RMW	08.12.10
13 REVISED SITE PLAN	NI	TJW	09.11.19
7 REVISED SITE PLAN	ADF	RMW	07.03.20
6 REVISED SITE PLAN	ADF	RMW	07.02.22
5 REVISED SITE PLAN	ADF	RMW	06.11.16
4 ICD TABLE REVISIONS	ADF	RMW	06.08.21
3 ISSUED FOR SITE PLAN SUBMISSION	ADF	RMW	06.07.24
2 REVISED PER CITY ROAD IMPROVEMENT PLANS	ADF	RMW	06.07.18
1 PRELIMINARY SITE DESIGN	SK	TA	06.04.21
File Name: 160400466C-DB-REV9	ADF	RMW	ADF 06.07.05
	Dwn.	Chkd.	Dsgn. YY.MM.DD

Permit-Seal

Client/Project

SOBEYS INC

6303 HAZELDEAN ROAD

Stittsville ON Canada

Title

SITE SERVICING PLAN

Project No. 160400466

Scale 1:500 (0, 5, 15, 25m)

Drawing No. SSP-1

Sheet 2 of 4

Revision 13

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