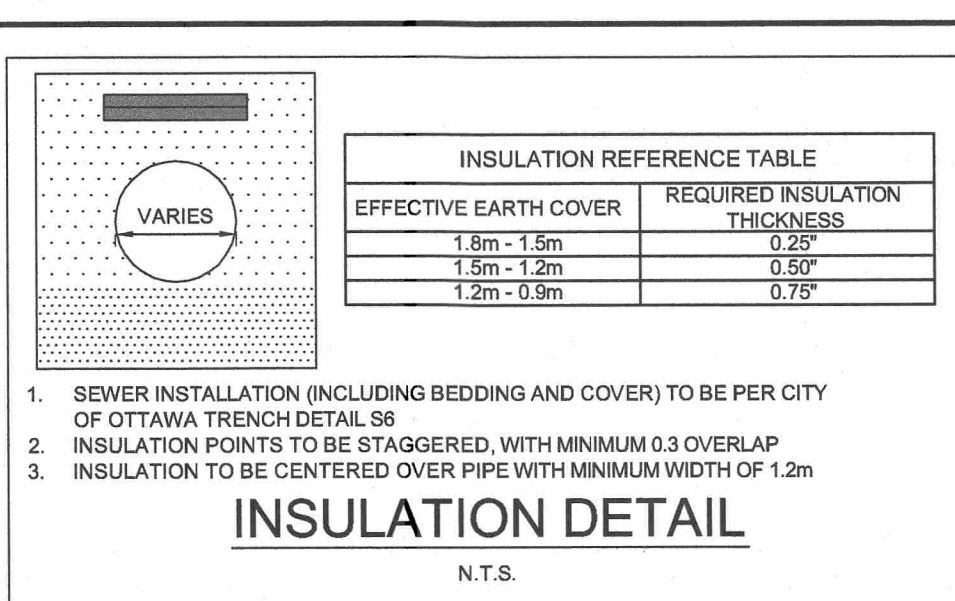


ICD TABLE						
ICD #	OUTLET PIPE DIA. (mm)	Qr (L/s)	OUTLET INV (m)	TOP OF GRATE (m)	MAX PONDING (m)	DESIGN HEAD (m)
ICD 1 - CB 4	200	10.00	94.65	96.15	98.25	1.50
ICD 2 - CB 3	250	22.00	94.25	95.95	98.06	1.81
ICD 3 - CB 5	200	20.00	94.00	95.80	98.05	2.05
ICD 4 - CB 6	200	4.00	94.00	95.50	95.73	1.73
ICD 5 - CB 10	250	6.00	93.50	95.40	95.65	2.15
ICD 6 - CB 11	200	10.00	93.50	95.30	95.45	1.95

HYDRO/EX. MODEL #						
100 VHM-1	125 VHM-2	125 VHM-2	75 VHM-1	100 VHM-1		



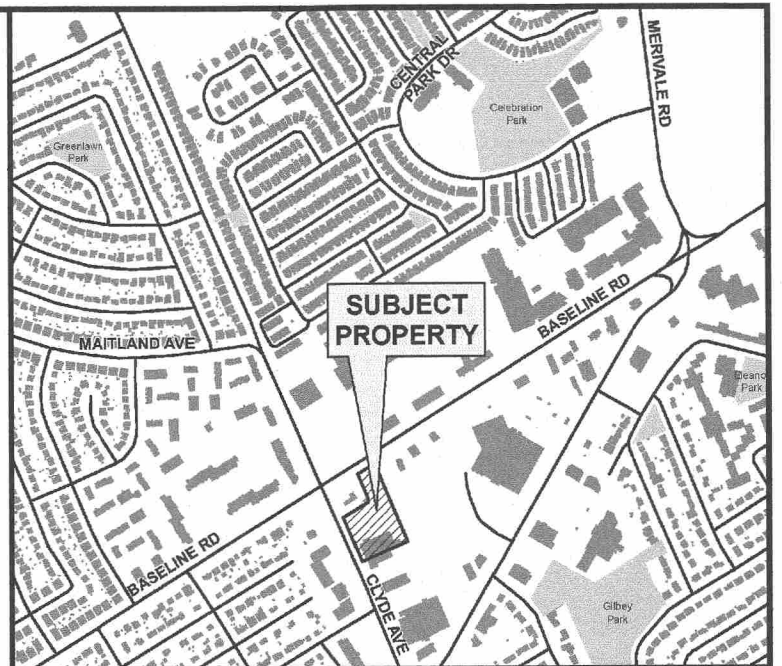
ROOF DRAIN TABLE				
BUILDING	ROOF DRAIN	WEIR OPENING	MAX PONDING DEPTH (mm)	RELEASE RATE (L/S)
BUILDING 1B	RD1	1/4	152	WATTS ADJUSTABLE ACCUTROL WER
	RD2	1/4	152	WATTS ADJUSTABLE ACCUTROL WER
TOTAL FLOW RATE =				1.89
BUILDING 2	RD1	FULLY EXPOSED	152	WATTS ADJUSTABLE ACCUTROL WER
	RD2	FULLY EXPOSED	152	WATTS ADJUSTABLE ACCUTROL WER
TOTAL FLOW RATE =				3.78
BUILDING 3	RD1	3/4	152	WATTS ADJUSTABLE ACCUTROL WER
				1.58
TOTAL FLOW RATE =				1.58

WATERMAIN TABLE-Sta. 1+000.00 TO 1+191.06				
STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM	
1+000	152 x 152 TEE CONNECTION TO EXISTING	95.81	93.41	
1+019.18	203 x 203 TEE	95.78	93.36	
1+058.51	203 x 152 TEE	95.75	93.35	
1+059.84	45° BEND	95.77	93.37	
1+076.81	203 x 152 TEE	95.65	93.25	
1+080.99	45° BEND	95.74	93.34	
1+111.76	152 x 203 TEE	95.87	93.47	
1+164.25	45° BEND	97.98	95.58	
1+166.23	45° BEND	96.07	95.67	
1+172.16	203x152 TEE	96.08	95.68	
1+177.00	CONNECTION @ BUILDING	96.30	95.90	
NOTE: ALL WM TO BE CONSTRUCTED AT 2.4m BELOW FINISHED GRADE.				

WATERMAIN TABLE-Sta. 2+000.00 TO 2+022.40				
STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM	
2+000	152 x 152 TEE	95.81	93.41	
2+024.42	VALVE & VB	95.74	93.34	
2+027.40	HYDRANT	95.59	93.59	
NOTE: ALL WM TO BE CONSTRUCTED AT 2.4m BELOW FINISHED GRADE.				

WATERMAIN TABLE-Sta. 3+000.00 TO 3+008.75				
STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM	
3+000	152 x 203 TEE	95.65	93.25	
3+002.65	VALVE & VB	95.52	93.22	
3+004.28	45° BEND	95.66	93.26	
3+008.75	HYDRANT	95.85	93.45	
NOTE: ALL WM TO BE CONSTRUCTED AT 2.4m BELOW FINISHED GRADE.				

WATERMAIN TABLE-Sta. 4+000.00 TO 4+015.00				
STATION ALONG WM	DETAIL	FINISHED GRADE	TOP OF WM	
4+000.00	HYDRANT	98.75	96.35	
4+003.00	VALVE & VB	98.62	96.22	
4+014.50	152x200 TEE	98.08	95.68	
NOTE: ALL WM TO BE CONSTRUCTED AT 2.4m BELOW FINISHED GRADE.				



- LEGEND
- EXISTING CATCH BASIN
 - CATCH BASIN c/w ICD
 - PROPOSED CATCH BASIN & LEAD
 - PROPOSED PERFORATED PIPE AND LANDSCAPE CATCH BASIN
 - PROPOSED WATERMAIN, HYDRANT, VALVE & VALVE BOX AND REDUCER
 - PROPOSED VALVE BOX
 - EXISTING WATERMAIN, VALVE & HYDRANT
 - PROPOSED STORM SEWER & MANHOLE
 - WATER QUALITY UNIT (WQU)
 - EXISTING STORM SEWER & MANHOLE
 - PROPOSED SANITARY SEWER & MANHOLE
 - EXISTING SANITARY SEWER & MANHOLE
 - CONCRETE SURFACE
 - DEPRESSED CURB
 - RETAINING WALL
 - PROPOSED HYDRO TRANSFORMER
 - SIAMESE CONNECTION
 - CONCRETE ENCASED STORM SEWER

1	ISSUED FOR SITE PLAN SUBMISSION	25/09/17
No.	ISSUE / REVISION	DD/MM/YY
1	ISSUED FOR SITE PLAN SUBMISSION	25/09/17

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VERIFY SHEET SIZE AND SCALES. BAR TO THE RIGHT IS 25mm IF THIS IS A FULL SIZE DRAWING.

SCALE: 1:300

CLIENT: DYMOM SELF STORAGE

CONSULTANT: J.L. Richards ENGINEERS · ARCHITECTS · PLANNERS

CONSULTANT: K.R. FERREY MORENO 100122432

PROJECT: SELF STORAGE FACILITY

1375 CLYDE AVE.

DRAWING: S1

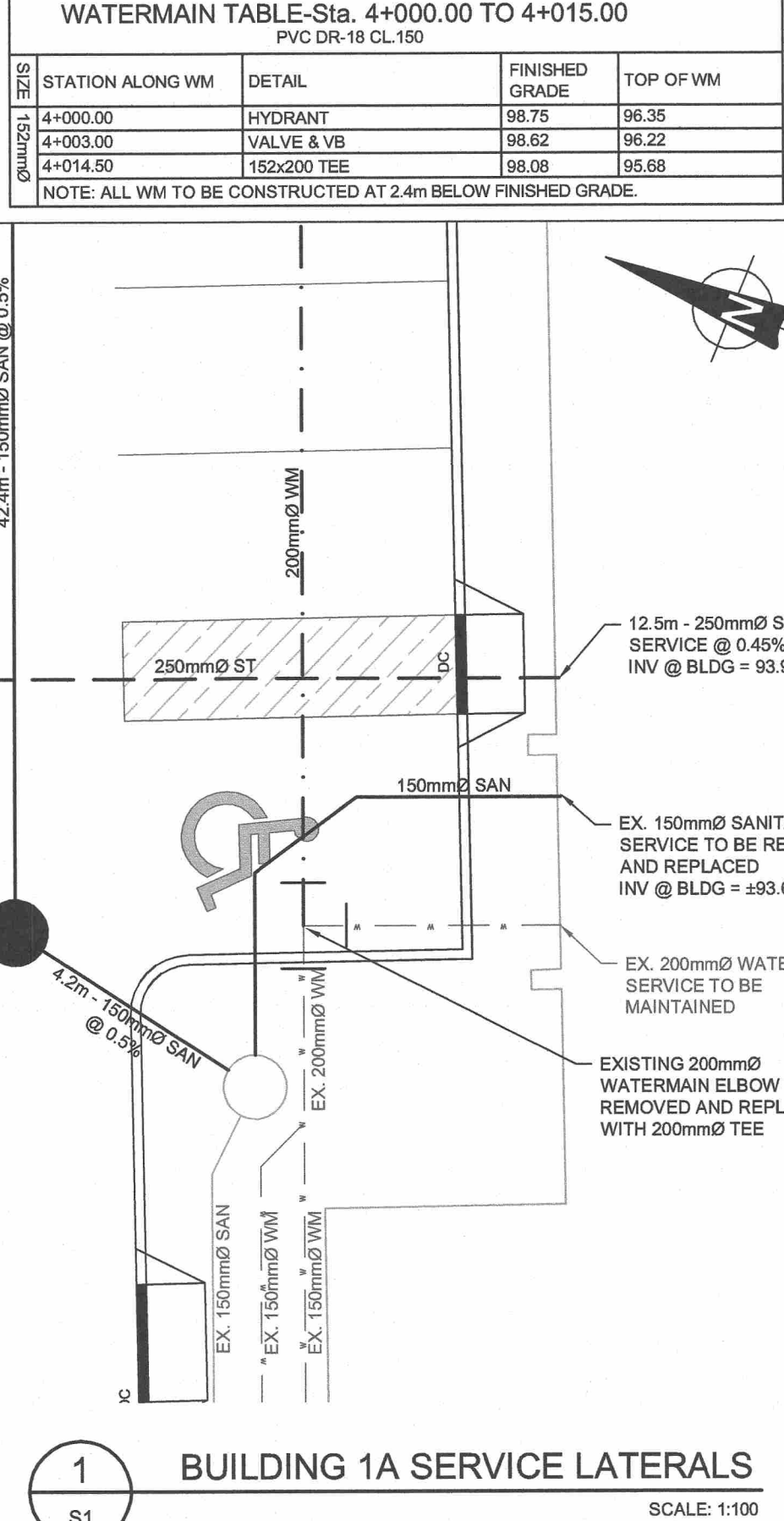
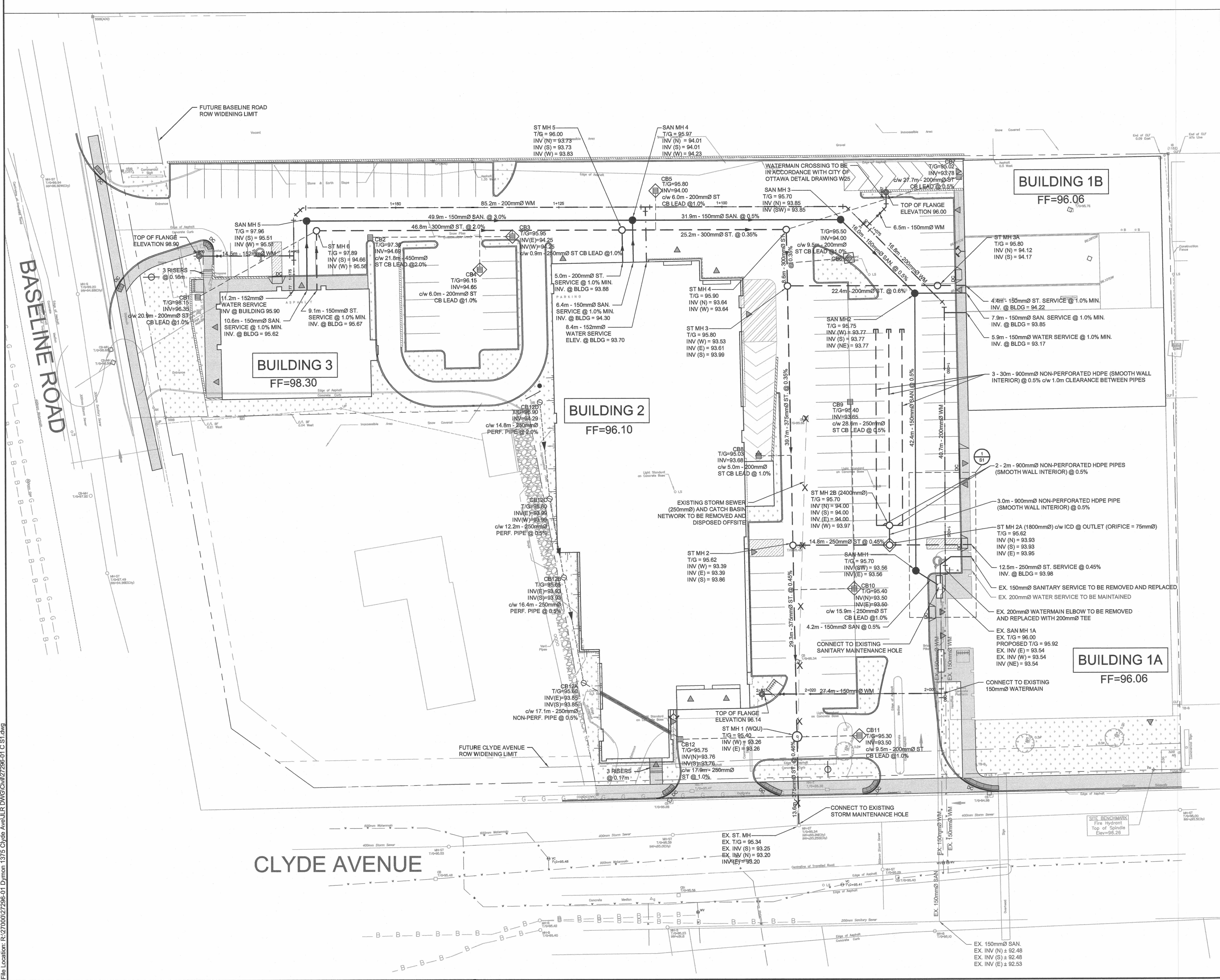
DESIGN: JW

DRAWN: C.J.M.

CHECKED: KF

JLR #: 27296-01

PLOT DATE: September 25, 2017 1:52:20 PM



- GENERAL CONSTRUCTION NOTES :
- ALL MATERIAL (SANITARY, STORM & WATERMAIN) AND CONSTRUCTION METHODS TO BE IN ACCORDANCE WITH THE CURRENT OPSD, OPSS AND CITY OF OTTAWA STANDARD DRAWINGS AND SPECIFICATIONS.
 - UNLESS OTHERWISE NOTED, DIMENSIONS FROM STREET LINE ARE TO THE CENTRELINE OF SEWER OR MANHOLE.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES FROM ALL UTILITY COMPANIES TO LOCATE EXISTING UTILITIES PRIOR TO EXCAVATION.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION, BACKFILL, REINSTATEMENT OF ALL AREAS DISTURBED DURING CONSTRUCTION AND ALL ASSOCIATED WORKS TO THE SATISFACTION OF THE ENGINEER AND CITY OF OTTAWA.
 - THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE, VIA EXCAVATION, THE EXACT LOCATION AND ELEVATION OF THE EXISTING WATERMANS, SEWERS AND UNDERGROUND STRUCTURES AS REQUIRED FOR ALL CONNECTIONS, RELOCATIONS AND BLANKINGS.
 - SERVICING DESIGN DRAWINGS TO BE READ IN CONJUNCTION WITH THE SITE SERVICING REPORT (SEPTEMBER 2017) PREPARED BY J.L. RICHARDS & ASSOCIATES (JLR 27296-01) AS WELL AS THE PRELIMINARY GEOTECHNICAL INVESTIGATION NOVEMBER 16, 2016 REPORT PREPARED BY FISHER ENVIRONMENTAL LTD. (REPORT NO. FE-P16-7971 GEO).
 - ALL WATERMANS SHALL CONFORM TO THE LATEST REVISIONS OF THE CITY OF OTTAWA AND THE ONTARIO PROVINCIAL STANDARD DRAWINGS (OPSD) AND SPECIFICATIONS (OPSS).
 - WATERMANS CROSSING BELOW OR OVER A SEWER SHALL BE IN ACCORDANCE WITH CITY STANDARD DRAWING W25 AND W25.2.
 - PROVIDE A MINIMUM OF 2.4m COVER ON ALL WATERMANS AND WATER SERVICES. OTHERWISE PROVIDE THERMAL INSULATION AS PER CITY STANDARD DRAWING W22 (IN SHALLOW TRENCHES) AND W23 (AT OPEN STRUCTURES).
 - AT ALL CONNECTION POINTS, REINSTATE SURFACES TO EXISTING CONDITION OR BETTER. ASPHALT RESTORATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DRAWING No. R10. THICKNESS OF GRANULARS AND ASPHALT LAYERS SHALL MATCH EXISTING. BOULEVARDS SHALL BE REINSTATE WITH 100mm TOPSOIL AND SOG.
 - SANITARY SEWERS TO BE 150mm PVC OR 36 AND STORM SEWERS TO BE PVC SDR 35. INSULATION TO BE PROVIDED WHERE MINIMUM COVERAGE OF 1.0m IS NOT ACHIEVED ON SEWERS (REFER TO INSULATION DETAIL). WATERMANS TO BE PVC DR 15.
 - ALL STORM & SANITARY MANHOLES TO BE 1200mm UNLESS OTHERWISE NOTED AS PER OPSD 701.010 c/w FRAME AND COVERS AS PER CITY STANDARD DRAWINGS 24 AND 24.1. SANITARY AND STORM MANHOLES (INCLUDING WQU) MUST HAVE WATERIGHT COVERS AS PER OPSD 401.030. CATCH BASIN MANHOLE COVER TO BE PER CITY STANDARD DRAWING S28.1.
 - ALL CATCH BASINS TO BE 600x600mm PRECAST CONCRETE PER OPSD 705.010 c/w FRAME AND COVER AS PER CITY STANDARD DRAWING S16.
 - DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL SITE PLAN.
 - SERVICES TO BE TERMINATED 1.0m FROM BUILDING WALL (TYPICAL).
 - CONCRETE CURB TO BE BARRIER TYPE AS PER CITY STANDARD DRAWING SC1.1.
 - SIDEWALKS AND WALKWAYS TO BE CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC2 (OR SC1.4) AND SC4.
 - 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 OBTAINED ON THIS PLAN. THE SITE BENCHMARK IS LOCATED ON AN EXISTING PINE HYDRANT AT THE SOUTHWEST CORNER OF THE SITE, ALONG CLYDE AVENUE, HAVING AN ELEVATION OF 96.26 m.
 - EXCAVATION FOR THE INSTALLATION OF SERVICES ALONG OR IN PROXIMITY OF A BUILDING OR A STRUCTURE IS TO BE CONTAINED WITHIN A TRENCH BOX WIDTH AND IS TO ENSURE NO CONFLICT WITH ANY FUTURE FOOTINGS. SELECT SUBGRADE MATERIAL, COMPACTED TO 100% SPD TO 1.0m BELOW EXISTING GRADE FOR FULL TRENCH WIDTH OF DISTURBED AREA SHALL BE USED FOR BACKFILL, INCLUDING ALONG ANY SEWERS AND WATERMANS ADJACENT TO A BUILDING OR OTHER STRUCTURE.
 - HYDRANT SHALL BE INSTALLED AS PER CITY STANDARD DRAWING W19.
 - WHERE STORM SEWER PIPES CROSS BELOW STRIP FOOTING, SEWER BEDDING AND COVER TO BE IN ACCORDANCE WITH STRUCTURAL DETAIL PREPARED BY CLELAND JARDINE ENGINEERING LTD.
 - PERIMETER WEEPING TILE SYSTEM TO BE INSTALLED IN ACCORDANCE WITH THE PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT NOVEMBER 16, 2016 PREPARED BY FISHER ENVIRONMENTAL LTD. (REPORT NO. FE-P16-7971 GEO). WEEPING TILE TO BE GRAVITY FED TO MAIN STORM LATERAL c/w BACKFLOW VALVE LOCATED 1.0m DOWNSTREAM OF WEEPING TILE CONNECTION. REFER TO ARCHITECTURAL DRAWINGS FOR WEEPING TILE DETAIL.
 - ALL BUILDINGS TO HAVE PRESSURE REDUCING VALVES ON WATER SERVICE.