- NOT SHOWN ON THIS DRAWING.
- CONSTRUCTION.
- OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
- CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
- SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL
- DIMENSIONS.

OF OTTAWA STANDARDS AND SPECIFICATIONS.

;	SPECIFICATIONS:		
	ITEM	SPEC. No.	REF
	STORM & CBMH / SANITARY / COMB. MH (1200mmØ)	701.010	OPS
	STORM MANHOLE (1500mmØ)	701.020	OPS
	CBMH MANHOLE (1800mmØ)	701.030	OPS
	CIRCULAR SAN / COMB. MH FRAME & COVER	S25 & S24	CITY
	CIRCULAR STORM & CBMH FRAME & COVER	S25 & S24.1	CITY
	AREA DRAIN	S31	CITY
	EXTERIOR MECHANICAL DRAIN (FD)	FD-490-F-4	WAT
		26	CITY

- PER THE CITY OF OTTAWA STANDARD DETAILS S14 AND S14.1 OR S14.2.
- DETAIL FOR SHALLOW SEWERS. PROVIDE 150mm CLEARANCE BETWEEN PIPE AND INSULATION.
- PSX: POSITIVE SEAL AND DURASEAL). THE CONCRETE CRADLE FOR THE PIPE CAN BE ELIMINATED.
- STRUCTURES.
- CONTROL OF ALL SANITARY SEWERS. LEAKAGE TESTING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS 410.07.16, 410.07.16.04 AND 407.07.24. DYE TESTING IS TO BE COMPLETED ON ALL SANITARY SERVICES TO CONFIRM PROPER CONNECTION TO THE SANITARY SEWER MAIN. THE FIELD TESTS SHALL BE PERFORMED IN THE PRESENCE OF A CERTIFIED PROFESSIONAL ENGINEER WHO SHALL SUBMIT A CERTIFIED COPY OF THE TEST RESULTS.
- INDICATED. ALL CATCHBASINS ARE TO HAVE 600mm SUMPS UNLESS OTHERWISE INDICATED.
- COURSE ASPHALT. UPON COMPLETION OF CONTRACT, THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND
- SERVICING AS-BUILT INFORMATION SHOWN ON THIS PLAN. AS-BUILT INFORMATION MUST INCLUDE: PIPE MATERIAL, SIZES, LENGTHS, SLOPES, INVERT AND T/G ELEVATIONS, STRUCTURE LOCATIONS AND ANY



- WATERMAIN TRENCHING

WATERMAIN CROSSING BELOW SEWER WATERMAIN

	PROPOSE	ED 150mmØ	WATER	
STATION	SURFACE ELEVATION	T/WM ELEVATION		
0+00	79.85±	77.45 *	150mmØ V	
0+05.3	79.77	77.37	CROSS BEL	
0+10	80.15	77.65		
0+11.8	80.24	77.74	PRO	
0+12.1	80.25	77.75	CAP 1	

ROOF DRAIN TABLE: AREA R-1				
AREA ID *	ROOF DRAIN No. (WATTS MODEL)	ROOF DRAIN OPENING SETTING	1:5 YEAR RELEASE RATE	
R-1	RD 1 (RD-100-A-ADJ)	3/4 EXPOSED	0.95 L/s	
R-1	RD 2 (RD-100-A-ADJ)	CLOSED	0.32 L/s	
R-1	RD 3 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	
R-1	RD 4 (RD-100-A-ADJ)	CLOSED	0.32 L/s	
R-1	RD 5 (RD-100-A-ADJ)	1/4 EXPOSED	0.79 L/s	

INTERNAL SWM STORAGE SYSTEM					
DESIGN	STORAGE SYSTEM	STORAGE	VOLUMES		
EVENT	CONTROLLED FLOW	REQUIRED	PROVIDE		
1:2 YR	1.26 L/s	0.7 m³			
1:5 YR	1.26 L/s	1.3 m³	> 5 0 m ³		
1:100 YR	1.26 L/s	3.7 m³	> 5.0 m		
1:100+20%	1.26 L/s	4.9 m³			

PLANS FOR DETAILS.

- EXACT SIZE AND DETAILS OF INTERNAL STORMWATER STORAGE SYSTEM



STRUCTURES AND ASSUME ALL LIABILITY FOR

PLAN #18087