- 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.	REFE
STORM & CBMH / SANITARY / COMB. MH (1200mmØ)	701.010	OPSE
STORM MANHOLE (1500mmØ)	701.020	OPSE
CBMH MANHOLE (1800mmØ)	701.030	OPSE
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	WATT
SEWER TRENCH	56	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. THE OWNER SHALL REQUIRE THAT THE SITE SERVICING CONTRACTOR PERFORM FIELD TESTS FOR QUALITY
- 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

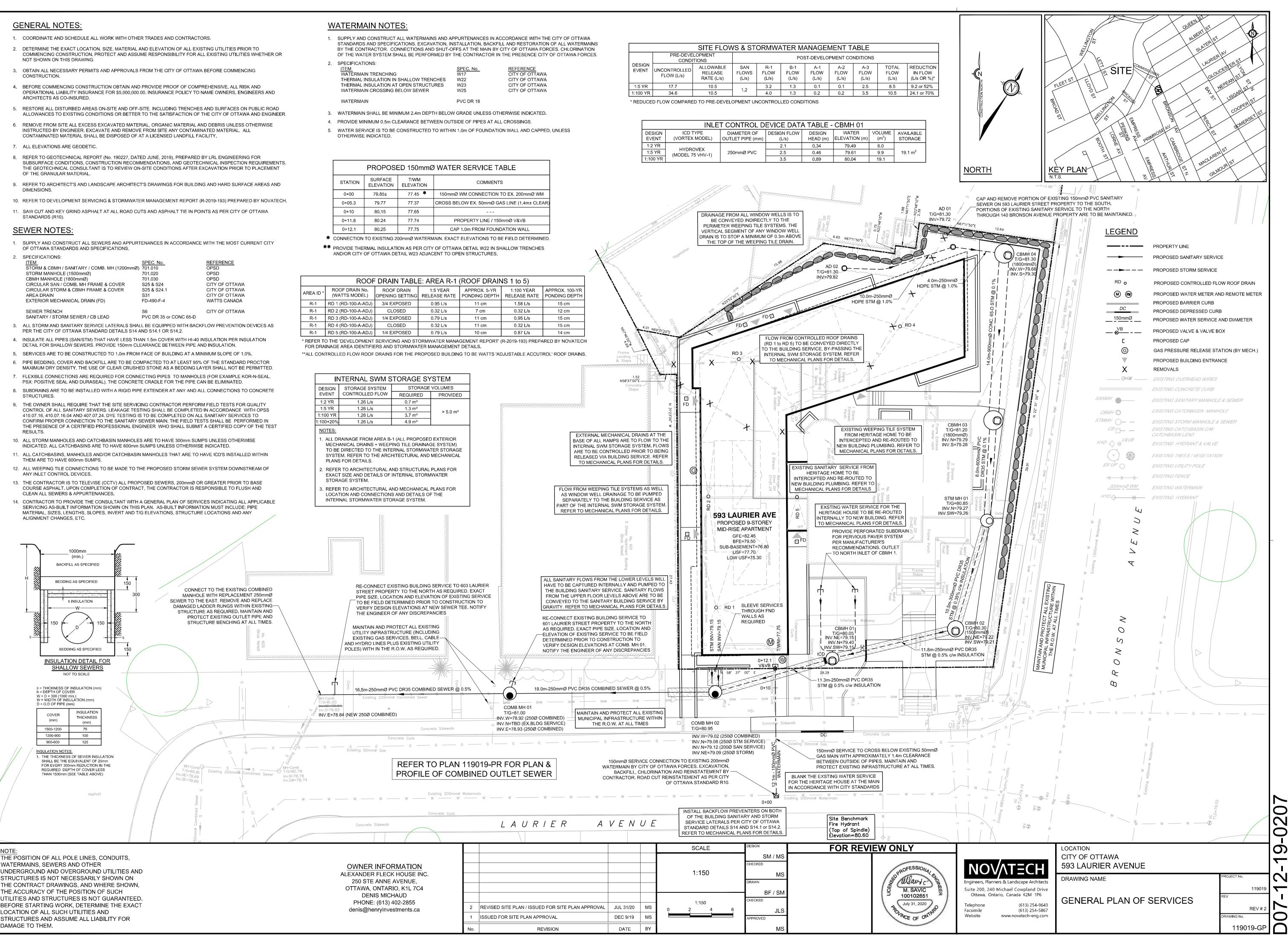
PROPOSED 150mmØ WATE			
STATION	SURFACE ELEVATION	T/WM ELEVATION	
0+00	79.85±	77.45 *	150mmØ W
0+05.3	79.77	77.37	CROSS BELC
0+10	80.15	77.65	
0+11.8	80.24	77.74	PRO
0+12.1	80.25	77.75	CAP 1

	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 m³	
1:100 YR	1.26 L/s	3.7 m³		
1:100+20%	1.26 L/s	4.9 m³		

PLANS FOR DETAILS.

- EXACT SIZE AND DETAILS OF INTERNAL STORMWATER



STRUCTURES AND ASSUME ALL LIABILITY FOR

PLAN #18087