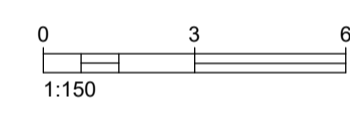
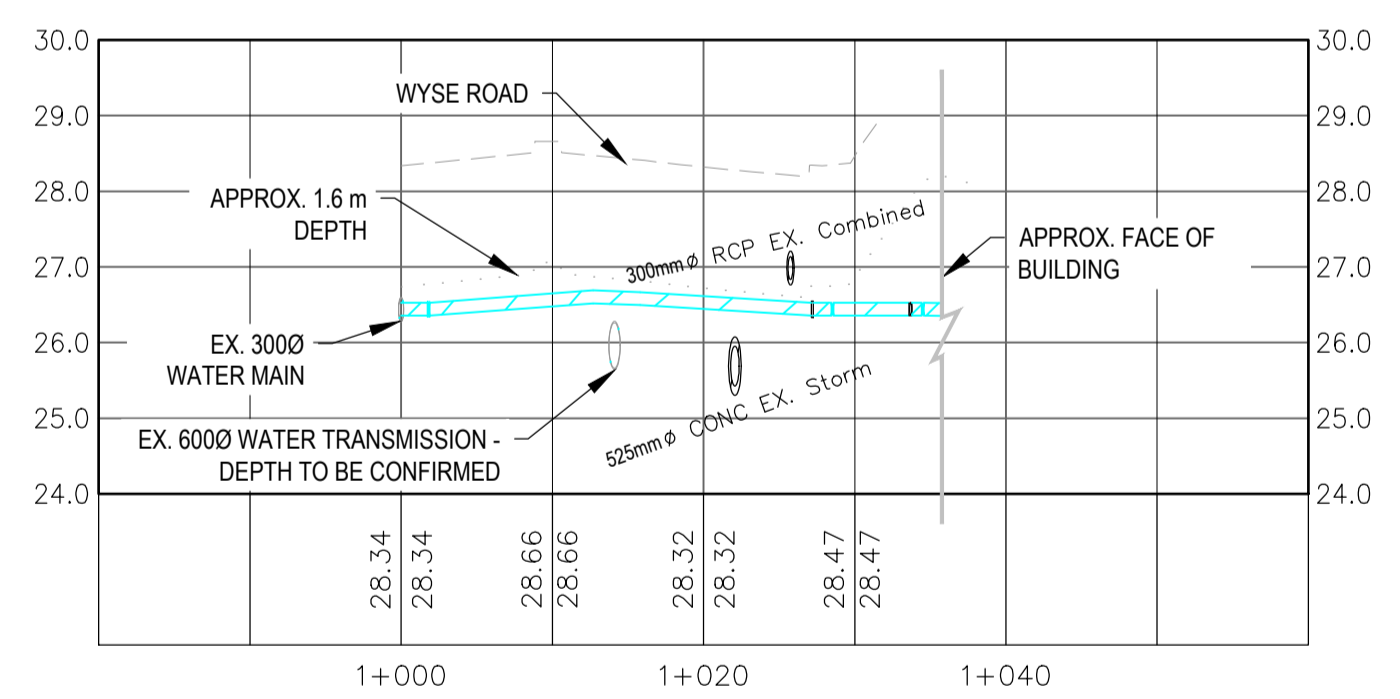


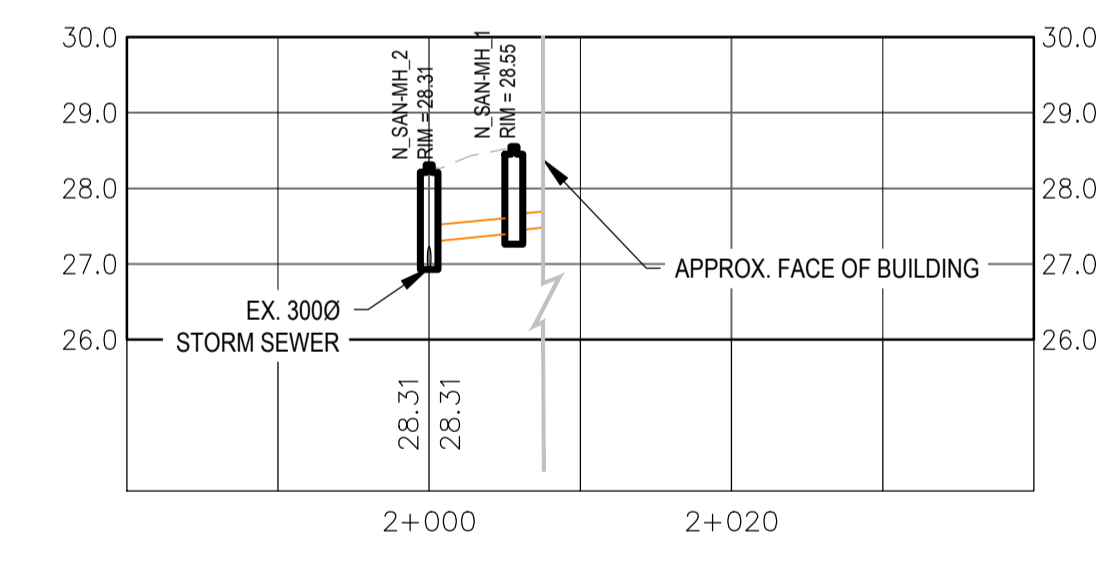
- NOTES:**
- ALL WORKS TO BE PERFORMED IN ACCORDANCE WITH HALIFAX WATER DESIGN SPECIFICATIONS & SUPPLEMENTARY STANDARD SPECIFICATIONS FOR WATER, WASTEWATER AND STORMWATER SYSTEMS, LATEST EDITION.
  - CONTRACTOR TO OBTAIN ALL NECESSARY LOCATES AND PERMITS REQUIRED TO PERFORM WORKS. COMPLY WITH ALL PERMIT REQUIREMENTS AND CONDITIONS.
  - ALL UTILITY LOCATIONS, LENGTHS AND ELEVATIONS SHOWN ON DRAWINGS ARE APPROXIMATE.
  - ALL EXISTING SERVICES TO THE SITE SHALL BE DISCONNECTED AT THE MAIN AND ABANDONED AS PER HALIFAX WATER REQUIREMENTS.



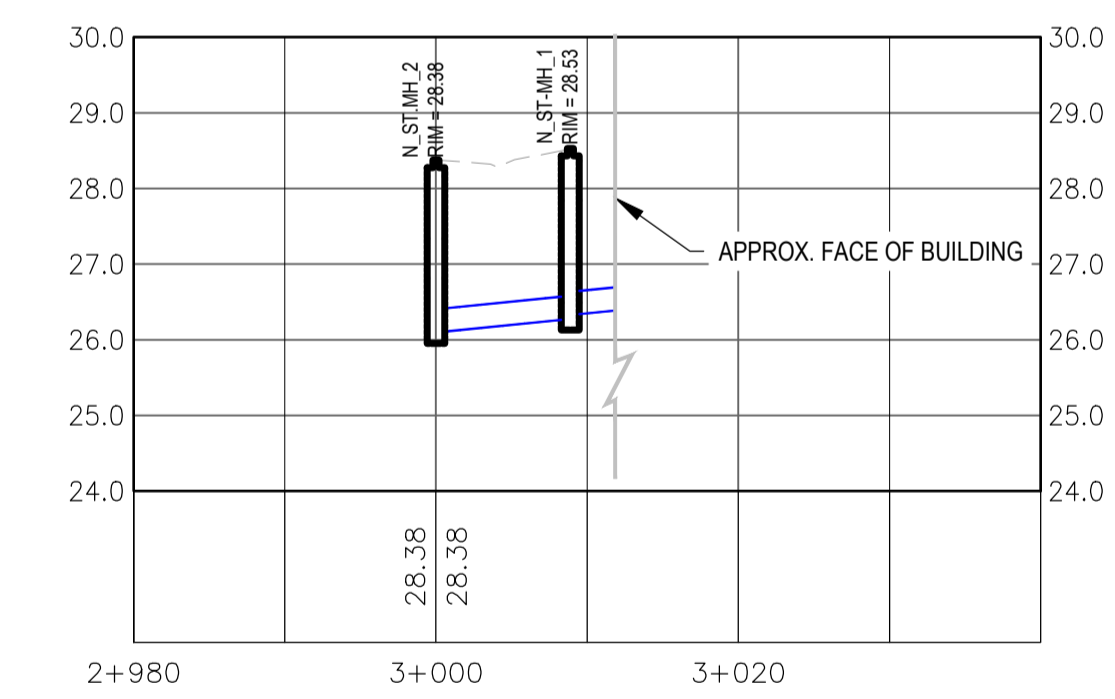
PROFILE VIEW: NEW WATER SERVICE CONNECTION  
Vertical Exaggeration: 5



PROFILE VIEW: NEW SANITARY SERVICE CONNECTION  
Vertical Exaggeration: 5



PROFILE VIEW: NEW STORM WATER SERVICE CONNECTION  
Vertical Exaggeration: 5



**Storm Water Calculations - NRCS (SCS) Method**

PRE-Development																									
	sq.ft.	sq.m.	Acres	Ha	CN																				
Building	3767	350	0.09	0.034	98																				
Grass/Planting (Dev)	2476	230	0.06	0.022	69																				
Grass/Planting (HRM)	4252	395	0.10	0.038	69																				
Asp. Parking Lot	13616	1265	0.31	0.123	98																				
Walls and Walkways	1615	150	0.04	0.015	98																				
HRM Parking Lot Contrib.	4198	390	0.10	0.038	98																				
<b>Combined / Total</b>	<b>29924</b>	<b>2780</b>	<b>0.687</b>	<b>0.269</b>	<b>91.48</b>	24	5	35	16.99	13.12	45	25.37	19.59	52	31.50	24.33	61	39.61	30.59	69	46.98	36.28	75	52.57	40.60

POST-Development																									
	sq.ft.	sq.m.	Acres	Ha	CN																				
Building	17459	1622	0.40	0.157	98																				
Grass/Planting (Dev)	780	73	0.02	0.007	61																				
Grass/Planting (HRM)	2774	258	0.06	0.025	61																				
Walls/Walks/Hardscape	4715	438	0.11	0.042	98																				
<b>Combined / Total</b>	<b>25728</b>	<b>2390</b>	<b>0.591</b>	<b>0.232</b>	<b>92.89</b>	19	4	35	19.14	12.71	45	27.91	18.53	52	34.26	22.75	61	42.60	28.29	69	50.14	33.29	75	55.84	37.08

\* Includes reduction related to HRM contributions to Site Stormwater

PIPE SIZING	2-Yr		5-Yr		10-Yr		25-Yr		50-Yr		100-Yr	
	P	Q	P	Q	P	Q	P	Q	P	Q	P	Q
Peak Flow (l/s)	18.5	22.7	18.5	22.7	18.5	22.7	18.5	22.7	18.5	22.7	18.5	22.7
Pipe Size (mm)	150	150	150	150	150	150	150	150	150	150	150	150
Pipe Slope (%)	2	2	2	2	2	2	2	2	2	2	2	2
Manning N	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Pipe Capacity (l/s)	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
% Full	45%	66%	66%	81%	81%	101%	101%	119%	119%	119%	119%	119%

**Halifax Water Sanitary Sewer System Calculations**

**Assumptions**  
 Type of Establishment: Multi-Unit Residential 300 l/d/p  
 Office & Retail 6 l/d/m<sup>2</sup>

Use	Value	Units	Density	Pop.	Average Dry Weather Flow Allowance (l/d/xx)	Ave. Dry Weather Flow (l/d)	Peaking Factor	Peak Dry Weather Flow (l/d)	Tributary Area (ha)	Infiltration/Inflow Allowance (l/d/ha)	Infiltration /Inflow Flow (l/d)	Safety Factor	Peak Wet Weather Flow (l/d)	Peak Wet Weather Flow (l/s)	Peak Wet Weather Flow (USgpm)	Pipe Size (mm)	Pipe Slope (%)	Manning 'n'	Pipe Capacity (l/s)	% Full
Residential	125	Units	2.25	281	300	84300	4.09	344824												
Office Space	1579	m <sup>2</sup>	-	-	6	9476	2.00	18952												
<b>Service Connection</b>								<b>363777</b>	0.30	24000	<b>7200</b>	<b>1.25</b>	<b>463721</b>	5.4	84.8	150	2	0.01	28.0	19.2%
<b>Downstream Pipe</b>														5.4	84.8	300	1.79	0.013	129.4	4.1%

CLIENT: ALEX DUNPHY

PROJECT: WYSE ROAD DEVELOPMENT  
112 & 114 WYSE ROAD  
DARTMOUTH, NOVA SCOTIA  
PID# 00082792 & 00082800

SCALE: 1:200  
DATE: 2020/09/18  
SHEET: C100

DATE: 2020/09/18  
ISSUED FOR DA RE-SUBMISSION: 2020/09/22  
ISSUED FOR DA APPROVAL: 2019/07/26  
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