



GENERAL NOTES

- EXISTING MUNICIPAL SERVICES PROVIDED BY HALIFAX WATER FROM A GIS EXTRACT, IN AUTOCAD FORMAT. DATA IS PRESENTED IN NAD83(CRS) V6; MTM NS ZONE 5; CGVD2013.
- ALL EXISTING SERVICE LOCATIONS, ELEVATIONS, CONNECTIONS AND OTHER SERVICE DETAILS SHOULD BE CONFIRMED PRIOR TO CONSTRUCTION.
- PROPOSED SIZING AND GRADING OF SERVICE CONNECTIONS ARE PRELIMINARY ONLY AND MUST BE CONFIRMED AND COORDINATED DURING DETAILED DESIGN.

PRELIMINARY SANITARY CALCULATIONS

- SANITARY SERVICE CONNECTION = 1500 PVC (MINIMUM SIZE)
- POPULATION = 26 UNITS AT 2.25 PEOPLE / UNIT = 59 PEOPLE
- AREA = 0.17 HA, PEAK WET WEATHER FLOW = 1.15 l/sec
- AT MAXIMUM 8% GRADE, 1500 PVC SERVICE CONNECTION CAPACITY UTILIZATION = 2.1% WITH APPROX. VELOCITY OF 3.6 m/s.
- DEVELOPMENT CONTRIBUTIONS TO EXISTING 250mm CONCRETE SANITARY SEWER ON BEDFORD HIGHWAY (~0.4% SLOPE) = 3.3%

PRELIMINARY STORM WATER CALCULATIONS

- STORM WATER MODELING CARRIED OUT USING NATURAL RESOURCES CONSERVATION SERVICE (NRCS/SCS) METHODOLOGIES FOR AN OVERALL DRAINAGE AREA OF APPROXIMATELY 1400 m².
- SHORT TERM IDF CURVES OBTAINED FROM HALIFAX WATER STANDARD SPECIFICATIONS FOR 5-YEAR MODIFIED CHICAGO STORM EVENT (SCS TYPE III, 24-HOUR STORM EVENT DISTRIBUTION) WITH CLIMATE CHANGE ADJUSTED DATA.
- HYDROLOGY AND TIME OF CONCENTRATION METHODOLOGIES - SCS TR-55 FOR SCS TYPE III 24-HR STORM DISTRIBUTION.
- ANALYSIS COMPLETED USING AUTODESK STORM AND SANITARY SEWER ANALYSIS (SSA).
- ANALYSIS SHOWS 2000 PVC STORM WATER SERVICE CONNECTION OPERATING AT 48% CAPACITY DURING THE 1:5 STORM EVENT WITH MAXIMUM VELOCITY OF 2 m/s AT MINIMUM PIPE SLOPE OF 2%.
- MAJOR STORM OVERLAND FLOW PATHS PRIMARILY DIRECTED TO MEADOWBROOK DRIVE AND BEDFORD HIGHWAY.

