



SANITARY FLOW CALCULATIONS

RE: Proposed 4-Story Residential Development
Block 1702, Lot 22
21 Grove Avenue
Township of Verona, Essex County, New Jersey

DATE: March 4, 2021

PROJECT ENGINEER: Matthew Seckler PE, PP, PTOE
New Jersey Professional Engineer License #48731

SANITARY SEWER PROJECTED FLOW CALCULATIONS

Per N.J.A.C. 7:14A-23.3(a) "Projected Flow Criteria", the project average flow for a one-bedroom unit is 150 gallons per unit, a two-bedroom unit is 225 gallons per unit, and a three-bedroom unit is 300 gallons per unit.

The 4-Story Residential Development quantities for this application are as follows:

- 14 one-bedroom units
- 20 two-bedroom units
- 1 three-bedroom unit

Projected Sanitary Demand:

- Proposed one-bedroom = (14 units) (150 gallons / unit) = 2,100 GPD
- Proposed two-bedroom = (20 units) (225 gallons / unit) = 4,500 GPD
- Proposed three-bedroom = (1 unit) (300 gallons / unit) = 300 GPD

Projected Total Sanitary Sewer = 6,900 GPD