

"Title 5" Calculations Memo



To: 10 Sunnyside Avenue
Comprehensive Permit Peer Review Response

SCI File # 52094.00

Re: Christian Klein, Arlington Zoning Board of Appeals Chairperson

From: Jeff Pilat, David Scharlacken,
Stephen Garvin, PE

July 27, 2023

There are 77 proposed bedrooms at 10 Sunnyside Avenue and per Massachusetts 310 CMR 15.000: Septic Systems ("Title 5") rate of 110 gallons per day (gpd) this will result in 8,470 gpd of additional flow in the municipal sewer system. Using the rational method the expected capacity, assuming depth of flow is half of the 8-inch sewer pipe is approximately 358,700 gpd.

The sanitary sewer design will comply with Technical Release 16 (TR-16) Guide for Design of Wastewater Treatment Works. Based on the project flow rate only contributing approximately 2% of the capacity of an 8" pipe we believe the existing infrastructure provides adequate sewer capacity.

We believe this memorandum and supplemental information addresses the Peer Review documentation required in order to meet the Zoning Board of Appeals approval. If any further questions or response clarifications are required, please call or email me: 508-877-6688 x13 or sgarvin@samiotes.com or Jeffrey Pilat (x23) jpilat@samiotes.com.

P:\Projects\2022\52094.00 Sunnyside Hsg Arlington\Documents\Hydrology\ZBA 08-01-23\52094.00 Title 5 Calcs Response Memo

Samiotes Consultants, Inc.
Civil Engineers + Land Surveyors

20 A Street
Framingham, MA 01701-4102

T 508.877.6688
F 508.877.8349

www.samiotes.com