

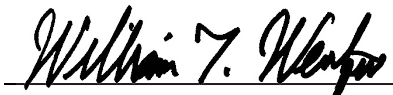


**SANITARY AND WATER REPORT**

**PREPARED FOR:**

**SHREWSBURY MANOR  
BOROUGH OF RED BANK  
MONMOUTH COUNTY, NEW JERSEY**

**April 12, 2021**

  
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NJPE LICENSE NO. 27799**

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## **INTRODUCTION**

The Shrewsbury Manor development is located in Block 5, Lots 5, 6.01, 8, & 9.02, for a combined total area of 0.94 acres. Shrewsbury Manor proposes 10 garden apartments, which consists of six (6) 1-bedroom apartments, and four (4) 2-bedroom apartments.

## SANITARY SEWER

Public sewer is provided to the building which exists along the Allen Place property frontage. A 4" PVC sanitary service line will connect the proposed building to the existing 8" sanitary sewer main located on Allen Place.

The anticipated sanitary sewer flow is calculated based on the NJDEP "Rules and Regulations for the Preparation and Submission of Plans for Sewer System and Wastewater Treatment Plants."

The sanitary sewer flow for Shrewsbury Manor is calculated as follows:

	<u>UNITS</u>	<u>FLOW / UNIT</u>	=	<u>TOTAL</u>
Garden Apartment One Bedroom	6	150	=	900 gpd
Garden Apartment Two Bedroom	4	225	=	900 gpd
TOTAL	10 units			1,800 gpd

Utilizing a peaking factor of 4, the anticipated daily peak flow for Shrewsbury Manor will be 7,200 gpd.

The resulting projected sanitary sewer flows are:

1,800 gpd, average daily flow

7,200 gpd, daily peak flow

## WATER

The water flow is calculated as follows: (Flow rates per RSIS)

	<u>UNITS</u>	<u>FLOW / UNIT</u>		<u>TOTAL</u>
Garden Apartment One Bedroom	6	120	=	720 gpd
Garden Apartment Two Bedroom	4	175	=	700 gpd
TOTAL	10 units			1,420 gpd

Utilizing a peaking factor of 3, the anticipated daily peak flow for Shrewsbury Manor will be 4,260 gpd or 0.004 mgd.