

PRINCETON JUNCTION ENGINEERING, P.C.
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May 8, 1995

Mr. Doug Davidson
Washington Township Health Department
West Windsor Township Municipal Building
P.O. Box 38
Princeton Junction, N.J. 08550

Re: Marrazzo Development Corp.
Lot 5.02, Block 10;
Washington Twp., Mercer Co., N.J.

Dear Mr. Davidson,

As requested, please accept the following information as certification regarding the construction of the pump tank and supporting appurtenances for the sewage disposal system at the above referenced location. A representative of this office has inspected the construction and I have determined the following:

1. The electrical circuit supplying the alarm system within the pump tank has been verified to be independent of any other electrical circuit.

2. Float elevations: Pump off 98.15
 Pump On 98.69
 Alarm 99.02

3. Dose Volume Calculation:

Pump Tank Interior Dimensions: 49.5" wide x 135" long = 6,682.5 square inches

Pump On Elevation 98.69 - pump off elevation 98.16 = 0.53 = 6.375 inches

6.375" x 49.5" x 135" = 42,601 cubic inches -- 1,728 ⁱⁿ/cf = 24.65 cubic feet

24.65 cf -- 0.1337 ^{cf}/gallon = 184.39 gallons dose volume provided

162.50 gallons dose volume proposed

4. Delivery Time Calculation:

Pump On Time 9:34:50 -- Pump Off Time 9:37:17 = 00:02:27

184.39 gallons -- 2.45 minutes = 75.26 gallons per minute.

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Re: Meadowbrook Development Corp.
Lot 5.02, Block 10;
Washington Twp., Mercer Co., N.J.

5. Reserve Capacity Calculations:

Reserve Area Dimensions = 32.375" x 49.5" x 135" = 216,346 cubic inches

216,346 ci -- 1,728 in^3/cf = 125.2 cubic feet -- 0.1337 $\text{in}^3/\text{gallon}$ = 936.4 gallons of reserve capacity provided

600 gallons minimum reserve capacity required.

Please review this information at your earliest convenience and contact me at this office should you have any comments or questions.

Respectfully submitted,

Princeton Junction Engineering, P.C.



D. Geoffrey Brown, N.J.P.E. & L.S. No: 24327

MED502/Cor/D-4