



Assinippi Office Park
 150 Longwater Drive, Suite 101
 Norwell, MA 02061

JN: 27-135 RIVER STONE

TABLE 1

1/23/2018

PROPOSED SOIL ABSORPTION SYSTEM SIZING

PROPOSED WASTEWATER FLOWS

<u>UNIT TYPE</u>	<u># BEDROOMS</u>	<u># UNITS</u>	<u>TOTAL # BEDROOMS</u>
2 BEDROOM	2	6	12
3 BEDROOM	3	26	78
		TOTAL	90

TOTAL # BEDROOMS	FLOW GAL/DAY *	GAL/DAY
90	110	9,900.00
	TOTAL	9,900.00

* Taken from 310 CMR Section 15.203 System Sewage Design Criteria

SAS SIZING

TOTAL GAL/DAY	PERC. RATE (min/inch)	EFFLUENT LOADING RATE (GPD/SF)*	LEACHING AREA REQUIRED SF
9,900.00	<5	0.74	13,378.38
		TOTAL	13,378.38

* Taken from 310 CMR Section 15.242 Effluent Loading Rates

USE 2' x 2' x 2' TRENCHES

LEACHING AREA REQUIRED (SF)	EFFECTIVE LEACHING AREA (SF/LF)	LENGTH OF TRENCH REQUIRED (LF)
13,378.38	6	2,229.73
	TOTAL	2,229.73

USE (24) 93' LONG 2' x 2' TRENCHES = 2,232 LF
RESERVE AREA BETWEEN 2' x 2' TRENCHES