

STONE BANK APPROXIMATE AREA CALCULATIONS

2/1/21

Roof Areas

Approximate Existing Roof Area	6,850 SF
Approximate Finished Roof Area	11,200 SF
Added Roof Area	4,350 SF

Paved Areas

Approximate Existing Paving (Asphalt Parking and Walks)	12,500 SF
Approximate Finished Paved Area (Walks)	2,850 SF
Reduction in Paved Area	9,650 SF

Storm Water Percolation Calculation:

Total Land Area 1.04 Acres x 43,560sf/acre =	45,302 SF
Less Finished Roof Area	(11,200 SF)
Less Finished Paved Area	(2,850 SF)
Plus Gravel Area Under Units 7 & 8	<u>2,250 SF</u>
Pervious Area Available for Percolation	33,502 SF

Runoff in 2 Year Rainstorm = 1.25 in/hr x 30,927 SF Site Area =	3,222 CF
Percolation at 2.5in/hr x 33,502 SF Pervious Area =	6,980 CF
Percolation at 2.0 in/hr x 33,502 SF Pervious Area =	5,584 CF

Conclusion: No Additional Storm Water Facilities Required