

DESIGN FLOW CALCULATIONS FOR
Tudor MultiFamily
 PEI 220231

Generation Rates

Unit Type	Bldg Use	Parameter	gpd/parameter	Q (gpd)
1 Bedroom	Apartment	209 Units	150	31350
2 Bedroom	Apartment	147 Units	200	29400
Studio	Apartment	2 Units	150	300
	Maintenance Building	740 Sq. Ft.	100/1000	74
	Clubhouse	8820 Sq. Ft.	200/1000	1764

Avg Daily Flow	62888 gpd
	0.0629 MGD
	43.67 gpm
	0.0973 cfs

Peak Flow =	314440 gpd
5 x Avg Daily Flow	0.3144 MGD
	218.36 gpm
	0.4865 cfs

Pipe Capacity Calculations:

MH "A-2" to M.H. "A-1"

Capacity	8	Peak Flow =	0.49 CFS
		in. Pipe @ 94% Full	1.00 % = 1.31 CFS