



Office of Environmental Health Services

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MAIN DRAIN CALCULATIONS

Facility Name: _____

Address: _____
Street City State Zip Code

Frame / Grate Manufacturer: _____

Frame / Grate Part Number: _____

Grate Open Area: _____ sq. in.

Drain outlet pipe open area to drain grate open area ratio must be minimum 4 to 1:

Pipe Size: _____ in. ÷ 2 = Radius of _____ in.

Area of pipe = πr^2 Area of pipe = 3.14 x (_____)² Pipe Open Area: _____ sq. in.

Pipe Open Area = _____ sq. in. X 4 = _____ sq. in. < Grate Open Area _____ sq. in.

Is drain outlet pipe open area to drain grate open area ratio approved? Yes / No

Maximum velocity through each grate 1½ fps.

(0.321 x Design Flow Rate _____ gpm) / Grate Open Area _____ sq. in. = Velocity _____ fps

Velocity _____ fps. < 1.5 fps.

Is velocity through each drain grate approved? Yes / No

Is the Main Drain Grate VGB Compliant? Yes / No