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Jerry,

Based on the information that you have provided me I have estimated that the minimum fire flow would be:

Residential Townhouses 3601 sq feet and greater with automatic sprinklers = 1 hour flow duration and 1000 Gallons Per Minute. This is considering a Type V wood-frame construction.

The larger RV storage appears to be a Type IIIA ordinary construction – 20,000 sq ft = 2000 x 0.25 (Sprinklers) = 500. (Cannot reduce less than 1000 GPM per IFC). The fire flow would be 1000 GPM for 2 hour flow duration.

1000 GPM flow rate for 2 hours or 120,000 total water needed for fire suppression.

In reference to your hydrant questions, IFC 507.5.1 allows maximum spacing of 600 feet for the hydrants, since the buildings will be sprinkled. The RV storage building should have a hydrant within 600 feet of it.

Thanks,



Patrick Nicholson

Fire Marshal

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