



BRIGHTON AREA FIRE AUTHORITY

615 W. Grand River Ave.

Brighton, MI 48116

o: 810-229-6640 f: 810-229-1619

SITE WATER REQUIREMENTS

Through local ordinances in Brighton Township, Genoa Twp., and Brighton City, the Brighton Area Fire Authority enforces the 2012 International Fire Code. Section 508 provides the basis for water supplies for fire flow.

The Appendix B "*Fire-Flow Requirements For Buildings*" and Appendix C "*Fire Hydrant Locations And Distribution*" are specifically adopted to aid in uniform enforcement of the code.

Section 507.1 Required Water Supply States:

"An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises upon which facilities, buildings, or portions of buildings are hereafter constructed, or moved into or within the jurisdictions."

Areas within proximity of a municipal water system are required to extend and provide fire flow through that system in accordance with the provisions of the code and the water authority requirements.

Realizing some areas do not have a municipal water system, projects will be required to provide the sites fire flow through tanks, reservoirs or other approved means. These sites are encouraged to provide buildings with approved automatic sprinkler systems to reduce the distance from water supply meeting needed fire flow (507.5.1 exception 2, and Appendix B section B105.2).

Procedure for calculating "Needed Fire Flow":

- 1.) Determine the proposed construction classification, square footage, and use group in accordance with the Michigan Building Code.
- 2.) Refer to table B105.1 for needed fire-flow and flow duration.
- 3.) If an approved sprinkler system is installed, the required fire flow may be reduced by 75% (minimum required flow of 1500 gpm for 2.0 hours). A further reduction may be granted if construction materials or fire areas are utilized.

A written plan should be developed during site plan review. Calculations of water supplies, location of wells, tanks, hydrants, etc... shall be shown on a separate sheet. For areas without water supplies, NFPA 1142, or the International Wildland Urban Interface Code may be utilized in assisting with developing alternative methods. (Appendix B section B103.3)

The Brighton Area Fire Authority will gladly review proposals and alternatives in accordance with the requirements of the code. If you have any questions, please feel free to give me a call at 810-229-6640.

Sincerely,

A handwritten signature in black ink, appearing to read "M. O'Brian".

Michael O'Brian
Fire Chief