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FIRE HYDRANTS

6.01 *General Specifications*

Ref.: IFC 508.5

- 6.01-1. Fire hydrants shall be installed in accordance with the City of Bellevue Utility Department or the water authority having jurisdiction.

6.02 *Marking and Clearance*

Ref.: IFC 508.5.4

- 6.02-1. There shall be no parking of motor vehicles, refuse containers or other obstructions within fifteen (15) feet of a hydrant.
- 6.02-2. When required by the Fire Chief or his/her designate, paved areas within the vicinity of a hydrant shall be permanently marked by painting the words "NO PARKING" in white letters at least eighteen (18) inches tall on the pavement.
- 6.02-4. Fire hydrants located on private property shall be marked with an approved, reflective hydrant marker provided by the property owner placed in the street, alley, fire lane or access route in a location specified by the Fire Chief or his/her designate.

6.03 *Hydrant Supply, Spacing and Distribution*

Ref.: 508.5

- 6.03-1. Fire hydrants shall be installed as per fire flow and spacing requirements specified for the type of development and in accordance with Fire Department specifications.
- The location and distribution of fire hydrants shall be as specified in Appendix C, International Fire Code, Bellevue Municipal Code Chapter 23.11.
- 6.03-2. Paved access to fire hydrants shall be maintained to accommodate fire fighting apparatus, and to prevent damage to landscaping and pavement when the fire hydrant is being tested at its full flow.
- 6.03-3. In one- and two-family unit developments, fire hydrants shall be spaced on not more than five hundred (500) foot intervals along public streets or approved fire apparatus access routes.

- 6.03-4. In other developments (including multi-family, commercial, education, institutional, assembly, storage and industrial buildings and complexes), fire hydrants shall be spaced in accordance with Appendix C, International Fire Code (IFC) , 2006 Edition and IFC 508.5.

If more than one fire hydrant is required to meet the fire flow demand, all hydrants shall be within six hundred (600) feet of the building or complex or buildings measured along approved fire apparatus access routes or municipal streets.

- 6.03-5. The number of hydrants required for a building or complex of buildings shall be based on the formula:

Required fire flow = Number of hydrants times 1500 gpm.

Fractions greater than one-half (1/2) shall be rounded up to the next higher whole number. Fractions less than one-half (1/2) shall be dropped.

- 6.03-6. Buildings having a required fire flow less than two thousand five hundred (2500) gpm may have fire hydrants on one side of the building only.

- 6.03-7. Buildings having a required fire flow of three thousand five hundred (3500) gpm or more shall have fire hydrants served by a main that loops the building or complex of buildings and reconnects back into a distribution supply main in a separate location.

EXCEPTION: Where property lines, topography or other features prevent fire department vehicle access to one or more sides of a building or complex of buildings, this requirement may be waived if, in the opinion of the Fire Chief or his/her designate, suitable fire protection features are installed on the premises.

- 6.03-8. Buildings having a required fire flow of three thousand five hundred (3500) gpm or more shall have hydrants served by an underground main that is served from two directions or two sources of water supply.

Note: It is the intent of this section to arrange the water supply so that should one source or direction be disrupted, an alternate water supply will be available.

- 6.03-9. For average conditions, fire hydrants shall be located at least fifty (50) feet from the building or buildings they serve. When, in the opinion of the Fire Chief, the materials or processes in a building or complex of buildings constitute a hazardous condition, fire hydrants shall be located at least eighty (80) feet from the building.

EXCEPTION: Where property lines, topography or other features prevent this spacing, fire hydrants may be located closer to the building or buildings if, in the opinion of the Fire Chief or his/her designate, suitable safeguards such as four-hour fire resistive walls without openings are provided to protect fire equipment and fire fighters using the fire hydrant.

6.04 *Fire Hydrants Along Parkways and Arterial*
Ref.: IFC 508.5

- 6.04-1. Notwithstanding the fire hydrant spacing requirements of this chapter, when a project site is located across a parkway or primary (major) arterial, fire hydrants shall be located on the same side of the parkway or arterial as the project if required by the Fire Chief or his/her designate.