

ORDINANCE # 494

CITY OF LACEY

AN ORDINANCE RELATING TO AND REQUIRING INSTALLATION OF WATER MAINS AND FIRE HYDRANTS IN THOSE AREAS SERVED BY THE LACEY WATER SYSTEM, DEFINING THE TECHNICAL REQUIREMENTS THEREOF, REPEALING SECTIONS 13.60.020, 13.60.040, 13.60.050, 13.60.060, AMENDING SECTIONS 13.60.010, 13.60.030, 13.60.090, 13.60.100, 13.60.160, 13.60.170, 13.60.190, 13.60.210, AND ADDING NEW SECTIONS 13.60.020, 13.60.040, 13.60.050, 13.60.060, 13.60.065, 13.60.162, 13.60.164, 13.60.166, 13.60.168 AND 13.60.215 OF THE LACEY MUNICIPAL CODE

BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF LACEY, WASHINGTON as follows:

Section 1. Sections 13.60.020, 13.60.040, 13.60.050, and 13.60.060 are hereby repealed.

Section 2. Section 13.60.010 of the Lacey Municipal Code is hereby amended to read as follows:

"Definitions. The definitions set out in this section are a part of this chapter. Whenever the following terms are used in this chapter, they shall have the meaning as defined in this section:

"(1) 'Approving authority' means the fire chief;

"(2) 'Commercial and industrial properties' include, but are not necessarily limited to, areas designated as such in the Lacey Zoning Code or Thurston County Zoning Code, stores, retail and wholesale, warehouses, service stations, manufacturing facilities, garages, theaters, hotels, motels, restaurants, bars and taverns, banks, show rooms, barber shops and beauty shops;

"(3) 'Fire chief' means the fire chief of Thurston County Fire District No. 3, a municipal corporation;

~~"(4) 'Fire-department'-means-Thurston-County-Fire District-No.-3,-a-municipal-corporation,-which-agency-is-under contract-to-provide-fire-protection-and-inspection-and-other-related services-to-the-city;~~

"(5) (4) 'Fire flow' means the amount of water required to extinguish a fire;

"(6) (5) 'Flush type hydrant' means a hydrant installed entirely below grade;

"(7) (6) 'Institutional properties' include, but are not necessarily limited to: properties designated as such in the City of Lacey Zoning Code or Thurston County Zoning Code, places of worship, schools, public and private hospitals, nursing homes, lodges and fraternal orders, unless the structure contains a function of a commercial or industrial nature;

"(8) (7) 'Private hydrant' means any hydrant other than a public hydrant;

"(9) (8) 'Public hydrant' means a fire hydrant so situated and maintained so as to provide water for fire fighting purposes with restrictions for its use limited to certain designated property or properties. The location is such that it is readily accessible for immediate use of the fire department for other than private property;

"(10) (9) 'Residential properties' are those intended solely for the purpose of human habitation. Whenever 'single family dwelling' is used herein it also includes the structure known as a 'duplex,' namely, a two-family dwelling. A residence constructed

and equipped for occupancy by more than two families shall be defined as a multi-family dwelling or high density dwelling, the terms being identical in meaning;

"~~(11)~~ (10) 'Subdivision' means any lot, parcel, or tract of land which has been or is being subdivided or resubdivided into more than four lots or tracts or other divisions of land for the purpose of sale or building development, whether immediate or future;

"(11) 'Fire department hose connection' shall mean a hose connection at grade or street level for use by the fire department only."

Section 3. There is hereby added to the Lacey Municipal Code a new section, 13.60.020, to read as follows:

"Fire flow requirements--Residual pressure--Main size.

"(a) The fire chief shall determine the requirements for fire flow. The chief shall be guided by the standard published by the insurance services office entitled, 'Guide for Determination of Required Fire Flow.' In no case shall the quantity be less than 750 GPM at 20 p.s.i. residual pressure.

"(b) Required Residual Pressure. The required quantity shall be available as a residual pressure in the mains, figured for ground elevation of not less than 20 pounds, except where the building is equipped with automatic sprinklers dependent upon the distribution mains for supply, in which case the required fire flow shall be available at a residual pressure which will correspond to 15 pounds on the top line of the sprinklers.

"(c) Water mains shall be sized to provide flows to accommodate hydrant flows as stated in subsections (a) and (b) above. Minimum main size shall be six inches where hydrants are included in the water distribution system. Approval of the plans for the distribution system by the fire chief and the city engineer and submission to the fire underwriters shall be required. Where main sizes larger than six inches are required for the distribution system, the cost of oversizing may be negotiated by the city with the owner of the property to be served. In addition, the requirements of WAC 248-54-710 shall be followed."

Section 4. Section 13.60.030 of the Lacey Municipal Code is hereby amended to read as follows:

"Size of lead from service main to hydrant. The lead from the service main to the hydrant shall be no less than six inches in diameter. ~~Any-hydrant-leads-over-fifty-feet-in-length from-the-service-main-to-the-hydrant-shall-be-no-less-than-eight inches-in-diameter.--The-provisions-of-this-section-shall-apply without-exception-and-regardless-of-the-size-of-the-service-main."~~

Section 5. There is hereby added to the Lacey Municipal Code a new section, 13.60.040, to read as follows:

"Placement of hydrants at intersections. Hydrant spacing of 330 feet shall be required in all areas except single family and duplex residential areas. Unless otherwise required by the fire chief, at least one fire hydrant shall be installed at all intersections."

Section 6. There is hereby added to the Lacey Municipal Code a new section, 13.60.050, to read as follows:

"Proximity of hydrants in single family residential areas. Hydrant spacing of 660 feet shall be required for single family and duplex residential areas. Unless otherwise required by the fire chief, at least one fire hydrant shall be installed at all intersections. In addition to the spacing requirements set forth above, hydrants located in cul-de-sac and dead-end areas either by design, topographic or man-made feature which prohibit straight line distance measurement, shall be located to serve no more than 120,000 square feet."

Section 7. There is hereby added to the Lacey Municipal Code a new section, 13.60.060, to read as follows:

"Required future hydrant installations.

"(a) Residential areas. All new single family and duplex residential subdivisions served by the Lacey Water System shall meet the minimum requirements of this ordinance. Existing single family and duplex residential areas shall not have to install additional hydrants unless three or more dwelling units are added per 660 feet of street serving such area.

"(b) All other areas. The installation of fire hydrants in accordance with this ordinance shall be required of the owner and/or developer of any proposed or enlarged, altered, repaired, moved, improved or converted business, commercial, institutional or industrial facility or development when the floor area exceeds

500 square feet and/or when structural additions, alterations, and/or repairs to any portion of an existing building or structure, within any 12-months period exceed 25 percent of the value of the building or structure over 500 square feet. Nothing contained herein shall be construed as requiring the replacement of existing fire hydrants except as provided by Section 19 hereof."

Section 8. There is hereby added to the Lacey Municipal Code a new section, 13.60.065, to read as follows:

"On-site hydrants. When any portion of a building hereafter constructed is in excess of 150 feet from a water supply on a public street, there shall be provided, when required by the chief, on-site fire hydrants and mains capable of supplying the required fire flow. Such hydrants shall be located as may be required by the chief."

Section 9. Section 13.60.090 of the Lacey Municipal Code is hereby amended to read as follows:

"Foot-valve installation. There shall be a foot-valve installed between the service main and the hydrant sufficient to permit the repair and replacement of the hydrant without disruption of water service. ~~The type and style shall be determined by the approving authority. The location of all such valves installed shall be properly and accurately marked on identifiable plans or drawings, two copies of which shall be furnished to the fire chief.~~ This valve shall be furnished with a standard valve box."

Section 10. Section 13.60.100 of the Lacey Municipal Code is hereby amended to read as follows:

"Number of hydrants required for buildings. Buildings having required fire flow of less than ~~two-thousand-five-hundred~~ 2,500 GPM (other than buildings of fire resistive construction) can have fire hydrants on one side of the building only, yet there shall never be less than two fire hydrants available for any commercial, industrial, institutional or multi-family building larger than ~~five-hundred~~ 500 square feet of ground floor area. Location of hydrants protecting buildings requiring fire flows larger than ~~two-thousand-five-hundred~~ 2,500 GPM shall be determined by the fire chief."

Section 11. Section 13.60.160 of the Lacey Municipal Code is hereby amended to read as follows:

"Obstructing hydrant prohibited. No one shall plant any vegetation, erect any structure, or perform any action which results in obstructing the view of a hydrant for a distance of ~~fifty~~ 50 feet, or more: from the approach of fire apparatus. No one shall park any vehicle within 20 feet of any fire hydrant or fire department hose connection."

Section 12. There is hereby added to the Lacey Municipal Code a new section, 13.60.162, to read as follows:

"(a) All hydrants shall be accessible to fire department apparatus by way of access roadways with all-weather driving surface of not less than 20 feet of unobstructed width, capable of supporting the imposed loads of fire apparatus and having a minimum of 15 feet of vertical clearance.

"EXCEPTION: When there are not more than two Group R, Division 1 or M Occupancies as defined in the Uniform Building Code, the requirement of this Section may be modified when, in the opinion of the chief, fire fighting or rescue operations would not be impaired.

"(b) The required width of access roadways shall not be obstructed in any manner, including the parking of vehicles. "NO PARKING" signs and/or other appropriate notice prohibiting obstructions may be required and shall be maintained.

"(c) The access roadway shall be extended to within 150 feet of all portions of the exterior walls of the first story of any building. Where the access roadway cannot be provided, approved fire protection system or systems shall be provided as required and approved by the chief.

"(d) Where fire protection systems approved by the chief are provided, the above-required clearances may be modified.

"(e) The chief shall have the authority to require an increase in the minimum access widths where such width is not adequate for fire or rescue operations."

Section 13. There is hereby added to the Lacey Municipal Code a new section, 13.60.164, to read as follows:

"No dead-end water main shall be longer than 1,200 feet. All mains shall be a minimum of six inches in diameter."

Section 14. There is hereby added to the Lacey Municipal Code a new section, 13.60.166, to read as follows:

"Three copies of detailed plans or drawings of water line extensions, prepared by a licensed engineer, accurately indicating main size, the location of all valves, fire hydrants and thrust blocks to be installed shall be submitted to the city engineer and fire department prior to the commencement of any construction. Detailed plans should be submitted on a scale of 1" = 50'. A schematic diagram on a scale of 1" = 100', 200' or 300' shall also be submitted which shows proposed line size, valve location and hydrant location and sheet number of detailed plans. Engineering calculations showing capability of the proposed extension to deliver the required fire flow plus domestic flow at the required residual pressure shall be submitted for approval."

Section 15. There is hereby added to the Lacey Municipal Code a new section, 13.60.168, to read as follows:

"The fire department shall be notified when all newly installed hydrants or mains are placed in service."

Section 16. Section 13.60.170 of the Lacey Municipal Code is hereby amended to read as follows:

"Building permit--Chapter compliance prerequisite. No building permits shall be issued for erection of any building or structure until reasonable proof of intent to comply with this chapter is indicated and the approving authority is satisfied that hydrants are to be and/or can be installed to comply with this chapter. Approved fire hydrants and access shall be required prior to and maintained during the erection of any building or structure."

Section 17. Section 13.60.190 of the Lacey Municipal Code is hereby amended to read as follows:

"Hydrant purchasing--Authorized installer--Approval.

All fire hydrants to be installed shall be obtained from the city at a price equaling the cost to the city, plus ~~fifteen~~ 15 percent. The installation of the fire hydrant may be accomplished by the developer ~~or-a-recognized~~ through a licensed contractor or by payment to the city, and all installations shall be approved by the city engineer and the fire chief."

Section 18. There is hereby added to the Lacey Municipal Code a new section, 13.60.215, to read as follows:

"Acceptance by the city for maintenance and operation of main lines and service lines up to any meter installation shall be made prior to use of the lines for any purpose except for testing, disinfection and flushing. Acceptance shall be made only after:

"(1) Satisfactory pressure tests to 150 percent of working pressure but in no case less than 150 p.s.i., said tests to be conducted and documented by the contractor and witnessed by an inspector for the licensed engineer under whose direction the work is performed or by employees of the Lacey Water Department, and

"(2) Satisfactory bacteriological tests, and

"(3) Certificates of inspection by a registered, professional engineer per WAC 248-54-340, and

"(4) Completed, 'as built' drawing on reproducible mylar showing the facilities as constructed including depth of lines and reference ties to all underground valves and fittings.

"(5) Compliance with all provisions of this chapter."

Section 19. Section 13.60.210 of the Lacey Municipal Code is hereby amended to read as follows:

"Penalty for violation. Any person violating this chapter is guilty of a misdemeanor and, upon conviction, may be punished by a fine of five hundred dollars or by imprisonment in the city jail for a period not to exceed ~~six-months~~ 90 days, or by both such fine and imprisonment."

PASSED BY THE CITY COUNCIL OF THE CITY OF LACEY,
WASHINGTON, this 13th day of July, 1978.

CITY COUNCIL

By Loren R. Franer
Mayor

Attest:

Timothy McGuire
City Clerk

Approved as to Form:

[Signature]
City Attorney

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