

~~ORDINANCE~~ ORDINANCE NO. 00468

1 AN ORDINANCE relating to the installation
2 of fire hydrants and water mains in the
3 unincorporated areas of King County.
4 Included are commercial, industrial, institu-
5 tional and multiple dwelling buildings and
6 areas of plats and subdivisions.

7 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

8 Section 1. That the definitions following are a
9 part of this ordinance. That whenever the following terms
10 are used in this ordinance, they shall have the meaning as
11 defined. The definitions given shall not necessarily be
12 limited to the meaning given herein whenever the term is
13 one of common usage in which case the definition shall be
14 augmented and enlarged by accepted use of the term.

15 a. Approving authority - the approving authority
16 for the several conditions of this ordinance shall be the
17 Director of the King County Building Department or his
18 appointee.

19 b. Fire department - the term "fire department"
20 shall mean the fire authority normally responsible for fire
21 protection in the area.

22 c. Water authority - shall mean the Water
23 Department, Water District or other body legally supplying
24 water to fire hydrants in the area.

25 d. A.W.W.A. - shall mean the American Water
26 Works Association.

27 e. U.L. - shall mean Underwriters' Laboratories, Inc.

28 f. U.B.C. - shall mean the Uniform Building Code
29 as adopted by King County.

30 g. Public Hydrant - a public hydrant is a fire
31 hydrant so situated and maintained to provide water for fire
32 fighting purposes without restriction as to use for that
33 purpose. The location is such that it is accessible for
immediate use of the fire authority at all times.

1 h. Private hydrant - a private hydrant is a fire
2 hydrant so situated and maintained to provide water for fire
3 fighting purposes with restrictions as to use. The location
4 may be such that it is not readily accessible for immediate
5 use by the fire authority for other than certain private
6 property.

7 i. Flush type hydrant - a flush type hydrant is a
8 hydrant installed entirely below grade.

9 j. Fire flow - shall mean the flow of water avail-
10 able for fire fighting a fire at a specific building or
11 within a specific area.

12 k. Fire Marshal - shall mean the Director of the
13 King County Building Department or his appointee.

14 Section 2. All buildings constructed in unincor-
15 porated areas of King County shall be served by fire hydrants
16 installed as required by this Ordinance. Such hydrants shall
17 be served by a water district, or city, or by other adequate
18 means as approved by the Fire Marshal. The water authority
19 and fire department shall be notified in writing when the
20 system is available for use.

21 Section 3. All hydrants shall be subject to test-
22 ing and inspection by the fire department.

23 Section 4. The installation of flush type hydrants
24 is prohibited unless approved by the Fire Marshal.

25 Section 5. Standard fire hydrants shall be installed
26 as follows:

	<u>Single Family Zoned Areas</u>	<u>Commercial, Industrial & Apartment (including duplex areas)</u>
27		
28		
29		
30	Maximum Spacing between Fire Hydrants 700 feet	400 feet
31		
32		
33		

1 In addition, hydrant spacing shall be predicated upon hydrants
2 being located at street intersections. Public buildings,
3 including schools, located in single family residential areas
4 shall be classified as Commercial for fire protection purposes.

5 Section 6. All hydrants newly installed in single
6 family residential areas shall be supplied by not less than
7 six (6) inch circulating mains. Dead end mains supplying
8 fire hydrants must be at least eight (8") inches in diameter,
9 except hydrant leads up to fifty (50') feet long may be
10 six (6") inches in diameter.

11 Section 7. This section applies to all buildings
12 located so that a portion is more than 200 feet from a street
13 property line as measured by vehicular travel.

14 EXCEPTION: Detached single family dwellings.

15 a. Buildings having required fire flows of less
16 than 2500 GPM, may have fire hydrants on one side of the
17 building only.

18 b. When the required fire flow is over 2500 GPM,
19 the fire hydrants shall be served by a main which loops
20 around the building or complex of buildings and re-connects
21 back into the distribution supply main.

22 c. The number of fire hydrants shall be determined
23 on an average spacing of 300 feet computed on an imaginary
24 line parallel to and not less than fifty (50') feet from
25 the structure. All hydrants are to be accessible to fire
26 department pumpers over roads capable of supporting such
27 fire apparatus. The Fire Marshal shall determine the
28 location of the hydrants depending on utility, topography
29 and building location. Hydrants shall be a minimum of
30 fifty (50') feet out from the building, minor deviation
31 may be granted.

d. The lead from the service main to the hydrant shall be
2 no less than six (6") inches in diameter. Any hydrant leads over
3 fifty (50') feet in length from service main to the hydrant shall be
4 no less than eight (8") inches in diameter. The provisions of this
5 section shall apply without exception and regardless of the size of
6 the service main.

7 Section 8. Standard hydrants shall have: two (2) two
8 and one-half ($\frac{1}{2}$ ") inch hose outlets and one (1) four (4") inch I.D.
9 pumper port outlet. All four (4") inch outlet ports shall be
10 approved by the fire department having jurisdiction, and have
11 national standard thread or City of Seattle thread as predominates
12 in the area. Main valve opening shall be no less than five (5")
13 inches. Hydrants shall meet current A.W.W.A. standards for public
14 hydrants and may meet U.L. standards for private standards.

15 Section 9. Fire hydrants shall be installed to meet
16 sound engineering practices. There shall be an auxiliary gate
17 valve installed between the service main and the hydrant sufficient
18 to permit the repair and replacement of the hydrant without dis-
19 ruption of water service. The location of all valves and fire
20 hydrants installed shall be properly and accurately marked on
21 identifiable plans or drawings, two copies of which shall be
22 furnished the Fire Marshal.

23 Section 10. Hydrants shall stand plumb, be set to the
24 finished grade with the lowest outlet of the hydrant no less than
25 eighteen (18") inches above the grade and no less than thirty-six
26 (36") inches of clear area about the hydrant for clearance of
27 hydrant wrench on both outlets and on the control valve. The
28 pumper port shall face the street. Where the street cannot be
29 clearly defined or recognized, the port shall face the most likely
30 route of approach and location of the fire truck while pumping as
31 determined by the Fire Marshal.

32

1 Section II. Fire hydrants shall be protected
2 against damage by vehicles.

3 Section 12. If there presently exist fire hydrants
4 which do not conform to the requirements of this ordinance,
5 such hydrants when replaced shall be replaced with hydrants
6 which do conform to the standards defined herein.

7 Section 13. Hydrants shall not be obstructed by
8 any structure or vegetation or have the visibility impaired
9 for a distance of fifty (50') feet in the direction of
10 vehicular approach to the hydrant.

11 Section 14. For the purpose of this ordinance,
12 the fire flow requirement shall be applied by the Fire Marshal
13 based upon the following criteria:

	<u>Formula</u>	<u>Not to Exceed</u>	<u>Gallons/ min. required</u>
16 Item 1. Ground area of building (A)	$1000 + \frac{A}{10}$	5,000	
18 Item 2. Height in Stories (H)	$500X(H-1)$	3,000	
19 Item 3. Exposure Protection		2,000	
20	SUBTOTAL		
21 Item 4. Deduct for Type I & II U.B.C. construction	$\frac{1}{3} (1+2+3)$		
23 Item 5. Add for Type V U.B.C. construction	$\frac{1}{3} (1+2+3)$		
25	SUBTOTAL		
26 Item 6. Deduct for small fuel load	$\frac{1}{4}(1+2+3)$		
27	SUBTOTAL		
28 Item 7. Deduct for auto- matic sprinklers & other protective equipment		1,000	
30			
31	TOTAL REQUIRED FIRE FLOW IN GALLONS PER MINUTE		

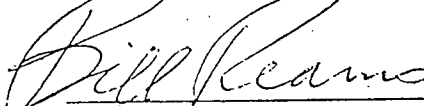
1 Section 15. The passage of this Ordinance is
2 necessary for the protection of health, safety, and welfare
3 of the citizens of King County, Washington. No building
4 permit shall be issued until plans, which are in compliance
5 with this Ordinance, have been submitted and approved.
6 No building shall be occupied until water is available.

7 Section 16. Any violation of this Ordinance
8 constitutes a misdemeanor which may be punishable by a fine
9 of \$250.00 or by imprisonment in the county jail for a
10 period not to exceed ninety (90) days or by both such fine
11 and imprisonment. The imposition of criminal penalty shall
12 not preclude the enforcement of all other provisions of
13 this ordinance.


14 Section 17. If any clause, paragraph or section
15 hereof shall be adjudged invalid, such adjudication shall
16 not affect any other clause, paragraph or section not so
17 adjudicated.

18 PASSED this 1st day of June, 1970.

19
20 KING COUNTY COUNCIL
KING COUNTY, WASHINGTON

21 
22
23 Chairman

24
25
26 ATTESTED:

27 
28 Clerk of the Council
29

30 APPROVED this _____ day of _____, 1970.

31 ORDINANCE READINGS

32 1st 5-4-70
33 2nd 6-1-70
3rd 6-1-70
RC: imp.

DEEMED ENACTED WITHOUT
COUNTY EXECUTIVE'S SIGNATURE

DATED 6-15-70
John D. Spellman, County Executive

Effective 6-11-70