

1 ADOPTED: 10/18/17
2 EFFECTIVE: 11/09/17

3
4
5 SNOHOMISH COUNTY COUNCIL
6 SNOHOMISH COUNTY, WASHINGTON

7
8 AMENDED ORDINANCE NO. 17-058

9
10 RELATING TO THE REGULATION OF CONSTRUCTION; ADOPTING THE 2015 EDITION OF
11 THE INTERNATIONAL FIRE CODE AS REVISED; ADDING AND AMENDING FEES; AMENDING
12 AND ADDING SECTIONS IN CHAPTERS 30.53A AND 30.86 SCC, AND REPEALING CHAPTER
13 30.52G SCC
14

15 WHEREAS, under RCW 82.02.020, the county may collect reasonable fees from an applicant
16 to cover the cost to the County of processing applications, inspecting, and reviewing plans, or
17 preparing detailed statements required by chapter 43.21C RCW; and
18

19 WHEREAS, the County must adjust fees to maintain financial self-sufficiency in providing
20 permitting services, to align the fees charged to applicants with the type and level of services
21 provided, and to provide for improved cost recovery and fee equity, predictability, and simplicity;
22 and
23

24 WHEREAS, in 2017 Snohomish County Planning and Development Services (“PDS”)
25 performed an analysis to estimate the time it takes staff to perform the related permit functions and
26 applied a full cost recovery methodology which includes the costs of labor, non-labor expenses,
27 and overhead to establish the proposed fees; and
28

29 WHEREAS, the merger of the International Conference of Building Officials with other code
30 writing organizations led to the formation of the International Code Council, which led to the
31 creation of a group of international codes that replaced the Uniform Building Codes in 2003; and
32

33 WHEREAS, the Washington State Legislature adopted the most current construction codes as
34 the State Building Code pursuant to chapter 19.27 RCW; and
35

36 WHEREAS, the State Building Code Act adopts the International Building, Residential, and
37 Fire Codes, as well as the Uniform Plumbing Code and other construction codes; and
38

39 WHEREAS, the new codes and standards contain updated construction and performance
40 standards, methods, technologies, and products; and
41

42 WHEREAS, the 2015 State Building Code became effective July 1, 2016; and
43

44 WHEREAS, the international and state building codes are updated comprehensively on a

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1 three-year cycle; and

2
3 WHEREAS, chapter 19.27 RCW mandates that the State Building Code be administered and
4 enforced by counties and cities, and grants counties and cities limited authority to amend the code
5 as it applies within their jurisdictions; and

6
7 WHEREAS, the Snohomish County Council (“County Council”) and the Snohomish County
8 Executive have identified regulation of development to ensure safe and quality construction as a
9 high priority and have delegated the responsibility for administering the State Building Code to
10 PDS; and

11
12 WHEREAS, PDS endeavors to administer and enforce the State Building Code in accordance
13 with chapter 19.27 RCW in order to provide for statewide consistency for the construction industry
14 and the citizens within Snohomish County; and

15
16 WHEREAS, the new international codes contain updated construction and performance
17 standards, methods, technology, and products to improve construction safety and provide greater
18 flexibility to meet minimum standards; and

19
20 WHEREAS, on October 18, 2017, the County Council held a public hearing after proper
21 notice, heard public testimony related to the proposed code amendments, and considered the
22 entire record; and

23
24 WHEREAS, following the public hearings, the County Council deliberated on the proposed
25 code amendments.

26
27 NOW, THEREFORE, BE IT ORDAINED:

28
29 Section 1. The County Council adopts the following findings in support of this ordinance:

- 30
31 A. The foregoing recitals are adopted as findings as if set forth herein.
32
33 B. The proposal would adopt the 2015 International Fire Code (IFC) as amended by the
34 Washington State Building Code Council and adopted by the Washington State Legislature,
35 and as revised by this ordinance.
36
37 C. This ordinance will amend Title 30 Snohomish County Code (SCC) as follows:
38
39 1. Repeal chapter 30.52G SCC, and relocate the fire sprinkler provisions into chapter
40 30.53A SCC.
41
42 2. Amend chapter 30.53A SCC to: 1) clarify the authority of the Snohomish County Fire
43 Marshal and the Fire Marshal’s personnel, 2) codify three new permits required by the
44 State Building Code, 3) add the fire sprinkler provisions from chapter 30.52G SCC, and

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1 4) provide greater code consistency.
2

- 3 3. Amend chapter 30.86 SCC to: 1) add new fees for a permit relating to gates and
4 barricades across fire apparatus access roads, 2) amend the fees relating to fire
5 protection sprinkler systems, 3) add new fees for a permit relating to underground
6 supply main piping for an automatic sprinkler system, 4) amend the fees relating to a
7 fire alarm system, and 5) add new fees for a permit relating to a marijuana extraction
8 system.
9

10 D. The proposal implements the State Building Code and further streamlines and provides greater
11 internal consistency of the SCC. Therefore the proposal complies with and implements the
12 following goal, objective, and policy contained in the Snohomish County GMA Comprehensive
13 Plan – General Policy Plan (“GMACP – GPP”):
14

- 15 1. Goal ED 2. “Provide a planning and regulatory environment that facilitates growth of the
16 local economy.”
17
18 2. Objective ED 2.A “Develop and maintain a regulatory system that is fair,
19 understandable, coordinated and timely.”
20
21 3. Policy ED 2.A.1 “Snohomish County shall work to ensure that the Snohomish County
22 Code is an understandable, accessible, and user friendly document.”
23

24 E. Procedural requirements.
25

- 26 1. The proposed amendments are consistent with state law, chapter 19.27 RCW.
27
28 2. State Environmental Policy Act (SEPA) requirements with respect to this non-project
29 action have been satisfied through the completion of an environmental checklist and the
30 issuance of a determination of non-significance on October 10, 2016.
31
32 3. This ordinance is exempt from review by the Snohomish County Planning Commission
33 (“Planning Commission”) pursuant to SCC 30.73.040(2)(c) because it implements the
34 State Building Code Act, not the Growth Management Act.
35
36 4. This ordinance does not adopt development regulations under SCC 30.10.080.
37 Therefore, notice to the Washington State Department of Commerce (“Commerce”) of
38 intent to adopt pursuant to RCW 36.70A.106 is not required.
39
40 5. The public participation process used in the adoption of this ordinance has complied
41 with all applicable requirements of the SCC.
42
43 6. The Washington State Attorney General last issued an advisory memorandum, as
44 required by RCW 36.70A.370, in December 2015, entitled “Advisory Memorandum:

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1 Avoiding Unconstitutional Takings of Private Property” to help local governments avoid
2 the unconstitutional taking of private property. The process outlined in the State
3 Attorney General’s 2015 advisory memorandum was used by Snohomish County in
4 objectively evaluating the regulatory changes proposed by this ordinance.
5

6 F. The proposed amendments are consistent with the record.
7

- 8 1. RCW 19.27.040 allows the governing body of each county and city to amend the State
9 Building Code as it applies within the jurisdiction of the county or city. The minimum
10 performance standards of the codes and the objectives enumerated in RCW 19.27.020
11 shall not be diminished by any county amendments.
12
- 13 2. Amendments to chapter 30.53A SCC are necessary to implement the State Building
14 Code, provide greater clarity and internal code consistency, and further streamline the
15 SCC.
16
- 17 3. Amendments to chapter 30.86 SCC are necessary to establish fees to implement the
18 State Building Code, and to better recoup the labor and non-labor expenses related to
19 fully processing permits for fire protection sprinkler systems and fire alarm systems. The
20 new fees were established in consideration of the staff time required to fully process the
21 respective permits and for consistency with similar fees from other local jurisdictions.
22
- 23 4. The County’s cost of services model for setting permit-related fees is based upon four
24 main cost layers: labor expenses (salary and benefits); non-labor expenses; County-
25 wide overhead; and additional costs related to development review. The labor
26 expenses layer consists of, direct costs, indirect costs, and overhead costs that are
27 included in the proposed fees.
28
- 29 5. The fees that the County will collect to process permits is reasonable and will reimburse
30 the County for the staff time required to process applications.
31

32 Section 2. The County Council makes the following conclusions:
33

- 34 A. The County Council concludes that this ordinance adopting amendments to subtitle 30.5 SCC
35 and the 2015 Edition of the IFC as amended by the State of Washington on November 13,
36 2015, together with local amendments permitted under RCW 19.27.040, is in the best interest
37 of Snohomish County.
38
- 39 B. The County Council concludes that the ordinance is consistent with the recent updates to the
40 State Building Cod Act adopted in chapter 19.27 RCW that became effective July 1, 2016.
41
- 42 C. The proposed amendments are consistent with Washington state law and the SCC.
43

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- 1 D. The County Council concludes that the ordinance promotes the health, safety and welfare of
2 the occupants or users of buildings and structures and the general public by providing building
3 codes that require minimum performance standards and requirements for construction and
4 construction materials, consistent with nationally accepted standards of engineering, fire and
5 life safety.
6
- 7 E. The County Council concludes that this ordinance does not adopt development regulations
8 under SCC 30.10.080. Therefore, Planning Commission review is not required pursuant to
9 SCC 30.73.040(2)(c).
10
- 11 F. The County Council concludes that this ordinance does not adopt development regulations
12 under SCC 30.10.080. Therefore, notice to Commerce of intent to adopt is not required
13 pursuant to RCW 36.70A.106.
14
- 15 G. The County Council concludes that the County has complied with all SEPA requirements with
16 respect to this non-project action.
17
- 18 H. The regulations proposed by this ordinance do not result in an unconstitutional taking of private
19 property for public purpose.
20

21 Section 3. The County Council bases its findings and conclusions on the entire record of
22 the County Council, including all testimony and exhibits. Any finding, which should be deemed a
23 conclusion, and any conclusion which should be deemed a finding, is hereby adopted as such.
24

25 Section 4. Snohomish County Code Chapter 30.52G, adopted by Amended Ordinance No.
26 07-088 on September 5, 2007, is repealed.
27

28 Section 5. Snohomish County Code Section 30.53A.010, last amended by Amended
29 Ordinance No. 14-059 on August 27, 2014, is amended to read:
30

31 **30.53A.010 International Fire Code (IFC) - adopted.**
32

33 The ~~((2012))~~ 2015 edition of the International Fire Code (IFC), except chapter 1, and the automatic
34 sprinkler provision of Section 903 of the 2015 edition of the International Building Code (IBC)
35 published by the International Code Council, as amended by the Washington State Building Code
36 Council in chapter 19.27 RCW ~~((is))~~ are adopted ~~((except chapter 1 and section 903 of the IFC))~~
37 and as otherwise expressly amended by this chapter, and ~~((is))~~ are incorporated and made a part
38 of this chapter by reference.
39

40 Section 6. Snohomish County Code Section 30.53A.102, last amended by Amended
41 Ordinance No. 14-059 on August 27, 2014, is amended to read:
42
43

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1
2 **30.53A.102 Scope.**
3

4 The fire code establishes regulations affecting or relating to structures, processes, premises and
5 safeguards regarding:

6 (1) The hazard of fire and explosion arising from the storage, handling or use of structures,
7 materials or devices.

8 (2) Conditions hazardous to life, property or public welfare in the occupancy of structures or
9 premises.

10 (3) Fire hazards in the structure or on the premises from occupancy or operation.

11 (4) Matters related to the construction, extension, repair, alteration or removal of fire suppression
12 or alarm systems.

13 (5) Conditions affecting the safety of fire fighters and emergency responders during emergency
14 operations.

15 (6) Automatic sprinkler systems.
16

17 Section 7. Snohomish County Code Section 30.53A.134, last amended by Amended
18 Ordinance No. 14-059 on August 27, 2014, is amended to read:
19

20 **30.53A.134 Personnel and police.**
21

22 (1) The Snohomish County Fire Marshal and members of the Fire Marshal's Office with the
23 required training and certification may be designated by the fire marshal (~~shall have the powers~~
24 ~~of~~) as a limited authority Washington peace officer as defined in chapter 10.93 RCW, with the
25 authority to detect and investigate arson, reckless burning, and malicious mischief as defined in
26 chapter 9A.48 RCW, and any crimes related directly thereto.

27 (2) The Snohomish County Sheriff may be petitioned to commission the Snohomish County Fire
28 Marshal and members of the office of the fire marshal recommended by the fire marshal as
29 specially commissioned Washington peace officers, as defined in chapter 10.93 RCW, upon
30 satisfaction of the training and other requirements prescribed or approved by the Washington
31 Criminal Justice Training Commission, for purposes of administering and enforcing the fire code
32 and this chapter.

33 (3) The Snohomish County Sheriff may assign such available deputy sheriffs as he or she deems
34 necessary to assist the fire marshal in administering and enforcing the fire code.
35

36 Section 8. Snohomish County Code Section 30.53A.332, last amended by Amended
37 Ordinance No. 14-059 on August 27, 2014, is amended to read:
38

39 **30.53A.332 Required construction permits.**
40

41 The building official is authorized to issue construction permits for work as set forth in SCC
42 30.53A.334 through (~~30.53A.356~~) 30.53A.357.
43

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1
2 Section 9. A new section is added to Chapter 30.53A of the Snohomish County Code to
3 read:

4
5 **30.53A.351 Marijuana extraction systems.**

6
7 A construction permit is required to install a marijuana/cannabis extraction system regulated under
8 WAC 314-55-104.

9
10 Section 10. A new section is added to Chapter 30.53A of the Snohomish County Code to
11 read:

12
13 **30.53A.357 Underground supply piping for automatic sprinkler system.**

14
15 A construction permit is required for the installation of the portion of the underground water supply
16 piping, public or private, supplying a water-based fire protection system. The permit shall apply to
17 all underground piping and appurtenances downstream of the first control valve on the lateral
18 piping or service line from the distribution main to one foot above finished floor of the facility with
19 the fire protection system. Maintenance performed in accordance with this code is not considered
20 to be a modification and does not require a permit.

21
22 **Permit Exceptions:**

- 23
24 1. When the underground piping is installed by the aboveground piping contractor.
25 2. Underground piping serves a fire protection system installed in accordance with NFPA
26 13D.

27
28 Section 11. Snohomish County Code Section 30.53A.360, last amended by Amended
29 Ordinance No. 14-059 on August 27, 2014, is amended to read:

30
31 **30.53A.360 Inspection authority.**

32
33 The fire marshal is authorized to enter and examine any building, structure, marine vessel, vehicle
34 or premises in accordance with SCC (~~(30.53A.146 and)~~ 30.53A.148 and 30.53A.176 for the
35 purpose of enforcing the fire code.

36
37 Section 12. Snohomish County Code Section 30.53A.504, added by Ordinance No. 07-087
38 on September 5, 2007, is amended to read:

39
40 **30.53A.504 Open burning – amended (~~((IFC 307.1.1))~~).**

41
42 Section 307.1.1 of the IFC is amended to read:

43 (1) Open burning shall be prohibited when atmospheric conditions or local circumstances make
44 such fire hazardous.

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1
2 **Exception: Prescribed burning for the purpose of reducing the impact of wildland fire when**
3 **authorized by the fire marshal.**
4

5 ~~((4))~~ (2) Open fires are prohibited at all county operated landfill sites, and all county personnel
6 are directed to take necessary steps to prevent and extinguish such fires.

7 ~~((2))~~ (3) Where open burning permits have been issued by the fire marshal, open burning
8 shall be suspended when a burn ban by the Puget Sound Clean Air Agency (PSCAA) is issued
9 and shall not be resumed until the burn ban is lifted.

10
11 Section 13. Snohomish County Code Section 30.53A.506, added by Ordinance No. 07-087
12 on September 5, 2007, is amended to read:

13
14 **30.53A.506 Group A occupancies – amended (~~((IFC 308.3.7))~~).**

15
16 A new exception is added to section (~~(308.3.7)~~) 308.3 of the IFC to read:

17
18 (4) Where approved by the fire marshal when minimum IFC performance standards are met.

19
20 Section 14. Snohomish County Code Section 30.53A.512, last amended by Amended
21 Ordinance No. 14-059 on August 27, 2014, is amended to read:

22
23 **30.53A.512 Fire apparatus access roads – replaced (~~((IFC 503))~~).**

24
25 Section 503 of the IFC is deleted in its entirety and replaced as follows:

26
27 503.1 Where required. Fire apparatus access roads shall be provided and maintained in
28 accordance with sections 503.1.1 through 503.1.3.

29
30 503.1.1 Buildings and facilities. Fire apparatus access roads shall be provided in accordance
31 with sections 501 and 503 of the IFC for every facility, building or portion of a building hereafter
32 constructed or moved into or within the county when any portion of the facility or any portion of
33 an exterior wall of the first story of the building is located more than 150 feet from fire
34 apparatus access as measured by an approved route around the exterior of the building or
35 facility. See also section 504 of the IFC for personnel access to buildings. When access roads
36 cannot be installed due to location on property, topography, waterways, nonnegotiable grades
37 or other similar conditions, the fire marshal is authorized to require alternative fire protection.

38 **Exceptions:**

39 1. When buildings are completely protected with an approved automatic fire sprinkler
40 system installed in accordance with this chapter (~~(30.52G SCC)~~), the fire apparatus access
41 road requirements may be modified by the fire marshal.

1 2. When there are no more than two dwelling units, or Group U Occupancies, the
2 requirements of sections 503.1.1 and 503.2 of the IFC may be modified by the fire marshal.

3 503.1.2 Additional access. More than one fire apparatus road shall be provided when it is
4 determined by the fire marshal that access by a single road might be impaired by vehicle
5 congestion, condition of terrain, climatic conditions or other factors that could limit access. For
6 high-piled combustible storage, section ((2306.6)) 3206.6 of the IFC applies. For required
7 access during construction, alteration or demolition of a building, section 1410.1 of the IFC
8 applies.

9
10 503.1.3 High piled storage. Fire department vehicle access to buildings used for high-piled
11 combustible storage shall comply with the applicable provisions of chapter 23 of the IFC.

12
13 503.2 Specifications. Fire apparatus roads shall be installed and arranged in accordance with
14 sections 503.2.1 through 503.2.8, as modified by this chapter.

15 503.2.1 Dimensions. Fire apparatus access roads shall have an unobstructed width of not less
16 than 20 feet (6096 mm), exclusive of shoulders, except for approved security gates in
17 accordance with Section 503.6, and an unobstructed vertical clearance of 13 feet and 6 inches
18 (4115 mm).

19 503.2.2 Authority. Vertical clearances of 13 feet and 6 inches in height or widths of 20' shall be
20 increased when, in the opinion of the fire marshal, vertical clearances or widths are not
21 adequate to provide fire apparatus access.

22 503.2.3 Surface. All fire apparatus access roadways shall be constructed of either gravel,
23 asphalt or some other all-weather surface capable of supporting vehicles consistent with
24 Engineering Design and Development Standards (EDDS).

25 503.2.4 Turning Radius. Turns, bends, or sweeps in fire apparatus access roadways shall be
26 designed at not less than twenty-foot inside-turning radii nor less than forty-foot outside-turning
27 radius.

28 503.2.5 Dead ends. Dead-end fire apparatus access roads in excess of 150 feet in length shall
29 be provided with a turnaround unless a modification is granted by the fire marshal. Dead-end
30 fire apparatus access roads that exceed 1,200 feet in length shall be provided with
31 intermediate turnarounds to provide adequate fire apparatus turn-around or the fire marshal is
32 authorized to require additional fire protection.

33
34 503.2.6 Bridges. When a bridge is required to be used as part of a fire apparatus access road,
35 it shall be constructed and maintained in accordance with the department of public works
36 engineering design and development standards adopted by the county. The bridge shall be
37 designed to carry an AASHTO (American Association of State Highway and Traffic Officials)
38 HL-93 Load Resistance Factor Design method live load or greater. Bridges shall be sufficient to

1 carry the imposed loads of fire apparatus. Vehicle load limits shall be posted at both entrances
2 to bridges when required by the fire marshal.

3
4 503.2.7 Grade. The gradient for a fire apparatus access road shall not exceed 15 percent. Cul-
5 de-sac bulb grades shall not exceed six percent.

6 503.3. Marking. Where required by the fire marshal, approved signs or other approved notices
7 or markings that include the words NO PARKING - FIRE LANE shall be provided for fire
8 apparatus roads to identify such roads or prohibit the obstruction thereof. The means by which
9 fire lanes are designated shall be maintained in a clean or legible condition at all times and be
10 replaced or repaired when necessary to provide adequate visibility.

11
12 503.4 Obstruction of fire apparatus access roads. Fire apparatus access roads shall not be
13 obstructed in any manner, including the parking of vehicles.

14
15 503.5 Required gates or barricade. The fire marshal is authorized to require the installation and
16 maintenance of gates or other approved barricades across fire apparatus access roads, trails
17 or other accessways, not including public streets, alleys or highways. Electric gate operators,
18 where provided, shall be listed in accordance with UL 325. Gates intended for automatic
19 operation shall be designed, constructed and installed to comply with the requirements of
20 ASTM F 2200.

21
22 503.5.1 Entrances secured by gates or barriers. Entrances to roads, trails or other access way
23 which have been closed with gates and barriers in accordance with section 503.5 of the IFC
24 shall not be obstructed by parked vehicles.

25
26 503.6 Gates accessing residential developments. Gates installed in a residential community
27 shall be equipped with a strobe activation device unless the local fire district does not have the
28 capability to activate such device and another device is approved by the local fire district.
29 Minimum gate width opening shall be 20 feet. The gate is required to open automatically with
30 the approach of emergency vehicles. In the event of a loss of power, the gate shall open
31 automatically and remain in the open position until power is restored.

32
33 **Exemption:** 2 or fewer dwelling units as approved by the local fire district.

34
35 503.7 Split entries to plats, short plats and single-family detached units (SFDU). Split entries
36 into plats, short plats and SFDUs shall be allowed where each aisle (lane) is at least 14 feet in
37 width.

38
39 503.8 Cul-de-sac Planters. Planters may be installed in cul-de-sacs when the outside radius of
40 the cul-de-sac is a minimum of 50 feet and the inside radius is a minimum of 25 feet.

41
42 Section 15. Snohomish County Code Section 30.53A.514, last amended by Amended
43 Ordinance No. 14-059 on August 27, 2014, is amended to read:
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1 **30.53A.514 Fire protection water supply - replaced.**

2
3 Section 507.1 of the IFC is deleted in its entirety and replaced as follows:

4
5 (1) The minimum water supply requirements contained in this section shall apply to land use
6 and construction permit actions subject to this title, or to any other existing or future code
7 provision in which compliance with the fire code is specifically required. Water mains and fire
8 hydrants shall meet the required minimum standards for water mains and fire hydrants. These
9 requirements shall apply to land use and construction permit actions subject to this title, or to
10 any other existing or future code provision in which compliance with the fire code is specifically
11 required.

12 (2) In administering these requirements, the fire marshal or the fire marshal's designee shall
13 have the authority to impose conditions on permits issued under this title where necessary to
14 mitigate fire hazards.

15 (3) A water supply shall consist of reservoirs, pressure tanks, elevated tanks, water mains or
16 other fixed systems capable of providing the required fire flow. Required water supply for fire
17 protection shall include:

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

21 (b) All land upon which buildings or portions of buildings are or may be constructed, erected,
22 enlarged, altered, repaired, moved into the jurisdiction, or improved, shall be served by a water
23 supply designed to meet the required fire flow for fire protection as set out in appendix B of the
24 IFC, except that fire flow requirements for rural areas outside of an Urban Growth Area shall be
25 reduced by 25 percent. Fire flow requirements for structures with a supervised fire alarm
26 system connected to an Underwriters Laboratory, Inc. approved fire alarm center may be
27 reduced by an additional 25 percent.

28 (c) Prior to final approval of any subdivision or short subdivision, written verification by the
29 water purveyor of actual fire flow, calculated in accordance with appendix B of the IFC, shall be
30 provided to the fire marshal for review and approval.

31 (d) Prior to combustible construction of a single-family detached unit (SFDU) project the
32 developer shall provide a final certificate of water availability indicating that all hydrants have
33 been installed, charged and are operational. The hydrants shall provide a minimum 1,000 gpm
34 for a 1-hour duration at 20 psi.

35
36 **Exemptions:** Except as provided in IFC section (~~508.1~~) 507, the following permits and
37 approvals are exempt from the water supply and fire hydrant requirements of this chapter:

38 (1) Subdivisions and short subdivisions in which all lots have a lot area of 43,560 square
39 feet (one acre) or more in size;

40 (2) Building permits for structures classified by the building code as Group U occupancies
41 (agricultural buildings, private garages; carports and sheds) that are restricted to private
42 residential use only, provided that riding arenas or other agricultural type structures used or
43 accessed by the public shall not be exempt;
44

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- 1 (3) A building permit for a single family detached dwelling, duplex, or mobile home to be
2 placed on a lot with a lot area of 43,560 square feet (one acre) or more in size; and
3 (4) Mobile home permits for mobile homes in established mobile home parks.
4

5 Section 16. Snohomish County Code Section 30.53A.516, last amended by Amended
6 Ordinance No. 14-059 on August 27, 2014, is amended to read:
7

8 **30.53A.516 Fire hydrant spacing – added (~~(IFC C105 of Appendix C)~~)).**
9

10 A new paragraph is added to (~~C105~~) C103 of Appendix C of the IFC to read as follows:
11

12 (1) Fire hydrant locations shall be determined by the fire marshal, in coordination with the water
13 purveyor, and pursuant to the requirements of Appendix C of the IFC subject to the following
14 exceptions:

15 (a) Fire hydrants serving single family dwellings or duplexes shall have a maximum lateral
16 spacing of 600 feet with no lot or parcel in excess of 300 feet from a fire hydrant. Fire hydrants
17 serving single-family dwellings in single-family detached units (SFDU) projects shall have a
18 maximum lateral spacing of 600 feet with no single-family dwelling in excess of 300 feet from a
19 fire hydrant; and

20 (b) Where the buildings are protected by an approved automatic sprinkler system, the spacing
21 requirements may be modified, if in the opinion of the fire marshal or his designee, the level of
22 fire protection is not reduced.

23 (2) For dead-end streets or roads the fire marshal may make adjustments to the lateral spacing
24 requirements to facilitate locating the hydrant at or near the street intersection and hydrants
25 shall be located at, or near street intersections whenever possible.

26 (3) All hydrants shall be accessible to the fire department by roadways or accesses meeting
27 the requirements of SCC 30.53A.512.

28 (4) When hydrants cannot be installed in conformance with the spacing requirements of this
29 chapter, the fire marshal shall confer with the water purveyor and provide for alternate locations
30 as allowed by the fire code.
31

32 Section 17. Snohomish County Code Section 30.53A.518, last amended by Amended
33 Ordinance No. 11-024 on August 3, 2011, is amended to read:
34

35 **30.53A.518 Hydrant systems - where required - amended (~~(IFC 507.5.1)~~)).**
36

37 Section 507.5.1 of the IFC is amended to read:
38

39 Where a portion of the facility or building hereafter constructed or moved into or within the
40 jurisdiction is more than 150 feet from a hydrant on a fire apparatus access road, as measured
41 by an approved route around the exterior of the facility or building, on-site fire hydrants and
42 mains shall be provided, where required by the fire marshal.
43

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1
2 Exceptions:

3 (1) For Group R-3 and Group U occupancies, the distance requirements shall be 300 feet.

4 (2) For buildings equipped throughout with an approved automatic sprinkler system
5 installed in accordance with this chapter (~~(30.52G SCC)~~), the distance requirement shall be
6 300 feet.

7
8 Section 18. Snohomish County Code Section 30.53A.520, last amended by Amended
9 Ordinance No. 14-059 on August 27, 2014, is amended to read:

10
11 **30.53A.520 Inspection, testing and maintenance requirements - replaced (~~(IFC 507.5.2)~~)**

12
13 Section 507.5.2 of the IFC is deleted in its entirety and replaced as follows:

14
15 Fire hydrant systems shall be subject to periodic tests as required by the fire marshal. Fire
16 hydrant systems shall be maintained in an operative condition at all times and shall be repaired
17 where defective. Additions, repairs, alterations and servicing shall comply with approved
18 standards. The standards contained in this section apply to all new hydrant installations and to
19 replacement of existing hydrants on public water systems that are required by the IFC to
20 provide fire flow.

21 (1) The installation of all fire hydrants shall be in accordance with sound engineering practices
22 and supplied by mains as prescribed by this chapter. Hydrants shall be installed, tested and
23 charged prior to the start of construction, unless otherwise approved by the fire marshal.

24 (2) Approval of fire hydrant types must be obtained prior to installation from the water purveyor,
25 or the fire marshal in the absence of a water purveyor.

26 (3) All elements of fire hydrant installation including water mains, pipes, valves, and related
27 components shall conform to the fire code, National Fire Protection Association (NFPA)
28 Standard 24, and American Water Works Association (AWWA) Standard C502-94.

29 (4) Standard hydrants shall have not less than five-inch main valve openings (MVO) with two
30 two-and-one-half inch National Hose (N.H.) outlet ports and one four-and-one-half inch N.H.
31 outlet port. When two port hydrants are replaced, they shall be replaced with three port
32 hydrants.

33 (5) "Storz" type steamer port fittings shall be provided on new hydrants when required by the
34 local fire district.

35 (6) Hydrants shall stand plumb and be set to the finished grade. The bottom of the lowest outlet
36 of the hydrant shall be no less than 18 inches above the grade. There shall be a 36-inch radius
37 of clear area about the hydrant for the operation of a hydrant wrench on the outlets and the
38 control valve. The pumper port shall face the street, or where the street cannot be clearly
39 identified, the port shall face the most likely route of approach of the fire truck while pumping,
40 as determined by the fire marshal. The hydrant shall be installed within 15 feet of the street or
41 access roadway.

42 (7) Hydrants shall be a minimum of 50 feet from a commercial structure to be served and no
43 further than 100 feet from a fire department connection (FDC) if present.

44 (8) The hydrant lateral shall be designed to deliver the required fire flow.

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1 (9) Hydrants shall not be obstructed by structures, fences, the parking of vehicles, or
2 vegetation. Hydrant visibility shall not be impaired within a distance of 75 feet in any direction of
3 vehicular approach to the hydrant.

4 (10) Fire hydrant systems shall be maintained in an operative condition at all times and shall be
5 repaired where defective. Additions, repairs, alterations and servicing shall be in accordance
6 with approved standards. Fire hydrant systems shall be subject to such periodic tests as
7 required by the fire marshal.

8 (11) When any portion of the facility or building protected is in excess of 150 feet from a water
9 supply on a public street, as measured by an approved route around the exterior of the facility
10 or building, on-site fire hydrants and mains capable of supplying the required fire flow shall be
11 provided when required by the fire marshal.

12 (12) The fire district may, in accordance with an agreement with the water purveyor, test
13 hydrants for flow capability.

14 (13) For all new hydrant installations, either public or private, the developer shall color code the
15 tops of the hydrant(s) to designate the level of service being provided by that hydrant. Color
16 coding for existing and new hydrants shall be in accordance with SCC Table 30.53A.520(13).

17
18 **Table 30.53A.520(13)**

19
20 **HYDRANT COLOR CODES**

21

Color Code for Hydrant	Level of Service
Light Blue	1,500 GPM or greater
Green	1,000 to 1,499 GPM
Orange	500 to 999 GPM
Red	Less than 500 GPM
Black	For drafting use only (hard suction/steamer port)
White	Cross on top of hydrant for filling tankers only

22
23 (14) For all new hydrant installations, either public or private, the developer shall install blue
24 street reflectors to indicate hydrant locations. Installation of blue street reflectors shall be
25 completed prior to final approval of any development or new construction.

26 (15) Maintenance of public hydrants shall be the responsibility of the recognized water
27 purveyor. Private fire service hydrants and mains shall be protected and maintained by the
28 owners in accordance with NFPA Standard 24.

29 (16) The water purveyor shall submit documentation to the fire marshal indicating which entity
30 is responsible for proper installation, operation and maintenance of fire protection facilities
31 associated with public water systems. The statement shall also indicate which fire district or
32 utility is responsible for repair and maintenance of fire hydrants in unincorporated Snohomish
33 County.

1 (17) Vehicles shall not be parked within 15 feet of a fire hydrant, or fire department connection,
2 or a fire protection system control valve.
3

4 Section 19. Snohomish County Code Section 30.53A.522, last amended by Amended
5 Ordinance No. 11-024 on August 3, 2011, is amended to read:
6

7 **30.53A.522 Water main specifications - added (~~IFC 507.5.3~~)).**
8

9 A new paragraph is added to section 507.5.3 IFC to read as follows:
10

11 The following requirements shall apply to all water main construction:
12

13 (1) Diameter. New or replaced water mains providing fire flow shall be a minimum of 6
14 inches in diameter and be designed to deliver fire flow required by the fire code. All dead end water
15 mains in excess of 50 feet which provide fire flow shall be a minimum 8 inches in diameter.

16 (2) Future replacement. When existing water mains are replaced, replacement mains shall
17 be sized to meet minimum fire flow requirements.
18

19 Section 20. Snohomish County Code Section 30.53A.526, last amended by Ordinance No.
20 11-024 on August 3, 2011, is repealed.
21

22 Section 21. Snohomish County Code Section 30.53A.528, last amended by Ordinance No.
23 11-024 on August 3, 2011, is repealed.
24

25 Section 22. Snohomish County Code Section 30.53A.530, added by Ordinance No. 07-087
26 on September 5, 2007, is amended to read:
27

28 **30.53A.530 Fire watch – amended (~~IFC 1404.5~~)).**
29

30 Section (~~1404.5~~) 3304.5 of the IFC is amended to read:
31

32 When required by the fire marshal for building construction or demolition that is hazardous in
33 nature, qualified personnel shall be provided to serve as an on-site fire watch. Fire watch
34 personnel shall be provided with at least one approved means for notification of the fire
35 department and their sole duty shall be to perform constant patrols and watch for the
36 occurrence of fire.
37

38 Section 23. Snohomish County Code Section 30.53A.532, added by Ordinance No. 07-087
39 on September 5, 2007, is amended to read:
40

41 **30.53A.532 General safety precautions - amended (~~IFC 2703.9~~)).**
42

43 Section (~~2703.9~~) 5003.9 of the IFC is amended to read:
44

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1 General safety precautions. General precautions for the safe storage, handling or care of
2 hazardous materials shall be in accordance with sections ((2703.9.1 through 2703.9.10))
3 5003.9.1 through 5003.9.10 of the IFC.
4

5 Section 24. Snohomish County Code Section 30.53A.534, last amended by Amended
6 Ordinance No. 11-024 on August 3, 2011, is amended to read:
7

8 **30.53A.534 Safety cans ((IFC 2703.9.10)).**
9

10 Safety Cans. Safety cans shall be listed in accordance with UL 30 when used to increase the
11 maximum allowable quantities per control area of flammable or combustible liquids in accordance
12 with Table ((2703.1.1(4))) 5003.1.1(1). Safety cans listed in accordance with UL 1313 are allowed
13 for flammable and combustible liquids when not used to increase the maximum allowable
14 quantities per control area and for other hazardous material liquids in accordance with the listing.
15

16 Section 25. New sections are added to Chapter 30.53A of the Snohomish County Code to
17 read:
18

19 **PARTS 900 - 1100 Automatic Sprinkler Systems**
20

21 **30.53A.900 Alternative protection.**
22

23 Alternative automatic fire-extinguishing systems complying with section 904 of the IFC shall be
24 permitted in lieu of automatic sprinkler protection where recognized by the applicable standard and
25 approved by the fire marshal.
26

27 **30.53A.905 Where required.**
28

29 Approved automatic sprinkler systems in new buildings and structures shall be provided in the
30 locations described in this chapter. For the purposes of this chapter, fire separations shall not
31 define separate buildings and/or fire areas.
32

33 **Exception:**
34

35 Spaces or areas in telecommunications buildings used exclusively for telecommunications
36 equipment, associated electrical power distribution equipment, batteries and standby
37 engines, provided those spaces or areas are equipped throughout with an automatic smoke
38 detection system in accordance with Section 907.2 of the IFC and are separated from the
39 remainder of the building by not less than 1-hour fire barriers constructed in accordance
40 with Section 707 of the IBC or not less than 2-hour horizontal assemblies constructed in
41 accordance with Section 711 of the IBC, or both.
42

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1
2 **30.53A.910 Existing commercial buildings.**
3

4 Automatic sprinkler systems as defined in the IBC or IFC shall be provided throughout any existing
5 commercial building renovated, added to, or altered whose combined fire areas exceed 10,000
6 square feet.
7

8 **30.53A.915 Group A.**
9

10 An automatic sprinkler system shall be provided throughout buildings and portions thereof used as
11 Group A occupancies as provided in SCC 30.53A.915 through SCC 30.53A.940. For Group A-1,
12 A-2, A-3 and A-4 occupancies, the automatic sprinkler system shall be provided throughout the
13 floor area where the Group A-1, A-2, A-3 or A-4 occupancy is located, and in all floors between the
14 Group A occupancy to, and including the level of exit discharge serving the Group A occupancy.
15 For Group A-5 occupancies, the automatic sprinkler system shall be provided in the spaces
16 indicated in SCC 30.53A.940.
17

18 **30.53A.920 Group A-1.**
19

20 An automatic sprinkler system shall be provided for Group A-1 occupancies where one of the
21 following conditions exists:

- 22 (1) The fire area exceeds 10,000 square feet (929 m²).
23 (2) The fire area has an occupant load of 300 or more.
24 (3) The fire area is located on a floor other than a level of exit discharge serving such occupancies.
25 (4) The fire area contains a multi-theater complex.
26

27 **30.53A.925 Group A-2.**
28

29 An automatic sprinkler system shall be provided for Group A-2 occupancies where one of the
30 following conditions exists:

- 31 (1) The fire area exceeds 5,000 square feet (465 m²).
32 (2) The fire area has an occupant load of 100 or more.
33 (3) The fire area is located on a floor other than a level of exit discharge serving such occupancies.
34

35 **30.53A.930 Group A-3**
36

37 An automatic sprinkler system shall be provided for Group A-3 occupancies where one of the
38 following conditions exists:

- 39 (1) The fire area exceeds 10,000 square feet (929 m²).
40 (2) The fire area has an occupant load of 300 or more.
41 (3) The fire area is located on a floor other than a level of exit discharge serving such occupancies.
42

1
2 **30.53A.935 Group A-4.**
3

4 An automatic sprinkler system shall be provided for Group A-4 occupancies where one of the
5 following conditions exists:

- 6 (1) The fire area exceeds 10,000 square feet (929m²).
7 (2) The fire area has an occupant load of 300 or more.
8 (3) The fire area is located on a floor other than a level of exit discharge serving such occupancies.
9

10 **30.53A.940 Group A-5.**
11

12 An automatic sprinkler system shall be provided for Group A-5 occupancies in the following areas:
13 concession stands, retail areas, press boxes and other accessory use areas in excess of 1,000
14 square feet (93 m²).
15

16 **30.53A.945 Nightclub.**
17

18 An automatic sprinkler system shall be provided throughout Group A-2 nightclubs.
19

20 **30.53A.950 Ambulatory care facilities.**
21

22 (1) An automatic sprinkler system shall be installed throughout the entire floor containing an
23 ambulatory care facility occupancy where either of the following conditions exist at any time:

24 (a) Four or more care recipients are incapable of self-preservation, whether rendered incapable
25 by staff or staff has accepted responsibility for care recipients already incapable.

26 (b) One or more care recipients who are incapable of self-preservation are located at other than
27 the level of exit discharge serving such a facility.

28 (2) In buildings where ambulatory care is provided on levels other than the level of exit discharge,
29 an automatic sprinkler system shall be installed throughout the entire floor where such care is
30 provided as well as all floors below, and all floors between the level of ambulatory care and the
31 nearest level of exit discharge, including the level of exit discharge.
32

33 **30.53A.955 Group E.**
34

35 An automatic sprinkler system shall be provided for Group E occupancies.
36

37 **Exception:**
38

- 39 1. Portable school classrooms with an occupant load of 50 or less calculated in
40 accordance with Table 1004.1.2 of the IFC, provided aggregate area of any cluster or
41 portion of a cluster or portable classrooms does not exceed 5,000 square feet (465 m²);
42 and clusters of portable classrooms shall be separated as required by the building
43 code.
44

1
2 2. Group E Occupancies with an occupant load of 50 or less, calculated in accordance
3 with Table 1004.1.2 of the IFC.
4

5 **30.53A.960 Group F-1.**
6

7 An automatic sprinkler system shall be provided throughout all buildings containing a Group F-1
8 occupancy where one of the following conditions exists:

9 (1) A Group F-1 fire area exceeds 10,000 square feet (929 m²).

10 (2) A Group F-1 fire area is located more than three stories above grade plane.

11 (3) The combined area of all Group F-1 fire areas on all floors, including any mezzanines, exceeds
12 20,000 square feet (1,858 m²).

13 (4) A Group F-1 occupancy used for the manufacture of upholstered furniture or mattresses
14 exceeds 2,500 square feet (232 m²).
15

16 **30.53A.965 Woodworking operations.**
17

18 An automatic sprinkler system shall be provided throughout all Group F-1 occupancy fire areas
19 that contain woodworking operations in excess of 2,500 square feet (232 m²) in area which
20 generate finely divided combustible waste or use finely divided combustible materials.
21

22 **30.53A.970 Group H.**
23

24 Automatic sprinkler systems shall be provided in high-hazard occupancies as required in SCC
25 30.53A.975 through 30.53A.985.
26

27 **30.53A.975 General Group H (IFC and IBC 903.2.5.1).**
28

29 An automatic sprinkler system shall be installed in all Group H occupancies.
30

31 **30.53A.980 Group H-5 occupancies.**
32

33 An automatic sprinkler system shall be installed throughout buildings containing Group H-5
34 occupancies. The design of the sprinkler system shall not be less than that required by the building
35 code for the occupancy hazard classifications in accordance with Table 30.53A.980. Where the
36 design area of the sprinkler system consists of a corridor protected by one row of sprinklers, the
37 maximum number of sprinklers required to be calculated is 13.
38

39 **TABLE 30.53A.980**
40

Location	Occupancy Hazard Classification
Fabrication areas	Ordinary Hazard Group 2
Service corridors	Ordinary Hazard Group 2

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Storage rooms without dispensing	Ordinary Hazard Group 2
Storage rooms with dispensing	Extra Hazard Group 2
Corridors	Ordinary Hazard Group 2

1
2
3 **30.53A.985 Pyroxylin plastics.**
4

5 An automatic sprinkler system shall be provided in buildings, or portions thereof, where cellulose
6 nitrate film or pyroxylin plastics are manufactured, stored or handled in quantities exceeding 100
7 pounds (45 kg).
8

9 **30.53A.990 Group I.**
10

11 An automatic sprinkler system shall be provided throughout buildings with a Group I fire area.
12

13 **Exceptions:**
14

- 15 1. An automatic sprinkler system installed in accordance with SCC 30.53A.1120 shall be
16 permitted in Group I-1 facilities.
17 2. An automatic sprinkler system installed in accordance with SCC 30.53A.1125 shall be
18 permitted in Group I-1 facilities when in compliance with all of the following:
19 a. A hydraulic design information sign is located on the system risers;
20 b. Exception 1 of SCC 30.53A.1160 is not applied; and
21 c. Systems shall be maintained in accordance with the requirements of SCC
22 30.53A.1120.
23 3. An automatic sprinkler system is not required where day care facilities are at the level of
24 exit discharge and where every room where care is provided has at least one exterior
25 exit door.
26 4. In buildings where Group I-4 day care is provided on levels other than the level of exit
27 discharge, an automatic sprinkler system in accordance with SCC 30.53A.1115 shall be
28 installed on the entire floor where care is provided and all floors between the level of
29 care and the level of exit discharge, all floors below the level of exit discharge, other than
30 areas classified as an open parking garage.
31

32 **30.53A.995 Groups B and M.**
33

34 An automatic sprinkler system shall be provided throughout buildings containing a Group B or M
35 occupancy where one of the following conditions exists:

- 36 (1) The fire area exceeds 10,000 square feet (929 m²).
37 (2) Is located more than 3 stories above grade plane.
38 (3) The combined areas on all floors, including any mezzanines, exceeds 20,000 square feet
39 (1,858 m²).
40

1
2 (4) Group M occupancies used for the display and sale of upholstered furniture or mattresses
3 exceeds 5,000 square feet (464 m²).
4

5 **30.53A.1000 High-piled storage.**
6

7 An automatic sprinkler system shall be provided in accordance with the IFC in all buildings of
8 Group M where storage of merchandise is in high-piled or rack storage arrays.
9

10 **30.53A.1005 Group R.**
11

12 An automatic sprinkler system installed in accordance with SCC 30.53A.1105 shall be provided
13 throughout all buildings with a Group R fire area.
14

15 **Exception:** Group R-1 if all of the following conditions are met:
16

- 17 1. The Group R fire area is no more than 500 square feet and is used for recreational use
18 only;
- 19 2. The Group R fire area is only one story;
- 20 3. The Group R fire area does not include a basement;
- 21 4. The Group R fire area is no closer than 30 feet from another structure;
- 22 5. Cooking is not allowed within the Group R fire area;
- 23 6. The Group R fire area has an occupant load of no more than 8; and
- 24 7. A hand held (portable) fire extinguisher is in every Group R fire area.
25

26 **30.53A.1010 Group R-3 or R-4 congregate residences.**
27

28 An automatic sprinkler system installed in accordance with SCC 30.53A.1125 shall be permitted in
29 Group R-3 or R-4 congregate living facilities with 16 or fewer residents.
30

31 **30.53A.1015 Group R care facilities.**
32

33 An automatic sprinkler system installed in accordance with SCC 30.53A.1125 shall be permitted in
34 care facilities with 5 or fewer individuals in a single-family dwelling.
35

36 **30.53A.1020 All Group S occupancies.**
37

38 An automatic sprinkler system shall be installed throughout all Group S occupancies that have
39 10,000 square feet (929 m²) or more of floor area.
40

41 **30.53A.1025 Group S-1.**
42

43 An automatic sprinkler system shall be provided throughout all buildings containing a Group S-1
44 occupancy where one of the following conditions exists:

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- 1 (1) Group S-1 fire area exceeds 10,000 square feet (929 m²);
2 (2) A Group S-1 fire area is located more than three stories above grade plane;
3 (3) A Group S-1 fire area used for the storage of commercial trucks or buses where the fire area
4 exceeds 5,000 square feet (464 m²); or
5 (4) A Group S-1 occupancy used for the storage of upholstered furniture or mattresses exceeds
6 2,500 square feet (232 m²).
7

8 **30.53A.1030 Repair garages.**
9

10 An automatic sprinkler system shall be provided throughout all buildings used as repair garages in
11 accordance with Section 406.8 of the IBC, as shown:

- 12 (1) Buildings two or more stories above grade plane, including basements, with a fire area
13 containing a repair garage exceeding 10,000 square feet (929 m²).
14 (2) Buildings with no more than one story above grade plane, with a fire area containing a repair
15 garage exceeding 10,000 square feet (929 m²).
16 (3) Buildings with a repair garage servicing vehicles parked in the basement.
17 (4) A Group S-1 fire area used for the repair of commercial trucks or buses where the fire area
18 exceeds 5,000 square feet (464 m²).
19 (5) S-1 repair garages where the use of open flame or welding is conducted with a floor area in
20 excess of 3,000 square feet (279 m²) or more.
21

22 **30.53A.1035 Group S-1 bulk storage of tires.**
23

24 Group S-1 buildings and structures where the area for the storage of tires exceeds 20,000 cubic
25 feet (566 m³) shall be equipped throughout with an automatic sprinkler system in accordance with
26 SCC 30.53A.1115.
27

28 **30.53A.1040 Group S-2.**
29

30 An automatic sprinkler system shall be provided throughout Group S-2 buildings classified as
31 enclosed parking garages in accordance with section 406.6 of the IBC as follows:

- 32 (1) Where the fire area of the enclosed parking garage exceeds 10,000 square feet (929 m²); or
33 (2) Where the enclosed parking garage is located beneath other groups.

34 Exception: Enclosed parking garages located beneath Group R-3 occupancies.
35

36 **30.53A.1045 Commercial parking garages.**
37

38 An automatic sprinkler system shall be provided throughout buildings used for storage of
39 commercial trucks or buses where the fire area exceeds 5,000 square feet (464 m²).
40

41 **30.53A.1050 Specific buildings areas and hazards.**
42

43 In all occupancies other than Group U, an automatic sprinkler system shall be installed in the
44 locations set forth in SCC 30.53A.1055 through 30.53A.1100.

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1
2 **30.53A.1055 Stories and basements without openings.**
3

4 An automatic sprinkler system shall be installed throughout all stories, including basements, of all
5 buildings where the floor area exceeds 1,500 square feet (139.4 m²) and where there is not
6 provided at least one of the following types of exterior wall openings:

7 (1) Openings below grade that lead directly to ground level by an exterior stairway complying with
8 section 1009 of the IFC or an outside ramp complying with section 1010 of the IFC. Openings shall
9 be located in each 50 linear feet (15,240 mm), or fraction thereof, of exterior wall in the story on at
10 least one side. The required openings shall be distributed such that the lineal distance between
11 adjacent openings does not exceed 50 feet (15,240 mm).

12 (2) Openings entirely above the adjoining ground level totaling at least 20 square feet (1.86 m²) in
13 each 50 linear feet (15,240 mm), or fraction thereof, of exterior wall in the story on at least one
14 side. The required openings shall be distributed such that the lineal distance between adjacent
15 openings does not exceed 50 feet (15,240 mm). The height of the bottom of the clear opening shall
16 not exceed 44 inches (1,118 mm) measured from the floor.
17

18 **30.53A.1060 Opening dimensions and access.**
19

20 Openings shall have a minimum dimension of not less than 30 inches (762 mm). Such openings
21 shall be accessible to the fire department from the exterior and shall not be obstructed in a manner
22 that fire fighting or rescue cannot be accomplished from the exterior.
23

24 **30.53A.1065 Openings on one side only.**
25

26 Where openings in a story are provided on only one side and the opposite wall of such story is
27 more than 75 feet (22,860 mm) from such openings, the story shall be equipped throughout with
28 an approved automatic sprinkler system, or openings as specified above shall be provided on at
29 least two sides of the story.
30

31 **30.53A.1070 Basements.**
32

33 Where any portion of a basement is located more than 75 feet (22,860 mm) from openings
34 described in SCC 30.53A.1055, or where new walls, partitions or other similar obstructions are
35 installed that increase the exit access travel distance to more than 75 feet (22,860 mm), the
36 basement shall be equipped throughout with an approved automatic sprinkler system.
37

38 **30.53A.1075 Rubbish and linen chutes.**
39

40 An automatic sprinkler system shall be installed at the top of rubbish and linen chutes and in their
41 terminal rooms. Chutes shall have additional sprinkler heads installed at alternate floors and at the
42 lowest intake. Where a rubbish chute extends through a building more than one floor below the
43 lowest intake, the extension shall have sprinklers installed that are recessed from the drop area of
44 the chute and protected from freezing in accordance with SCC 30.53A.1115. Such sprinklers shall

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1 be installed at alternate floors beginning with the second level below the last intake and ending
2 with the floor above the discharge. Chute sprinklers shall be accessible for servicing.

3
4 **30.53A.1080 Buildings 55 feet or more in height.**

5
6 An automatic sprinkler system shall be installed throughout buildings with a floor level having an
7 occupant load of 30 or more that is located 55 feet (16,764 mm) or more above the lowest level of
8 fire department vehicle access.

9
10 **Exceptions:**

- 11
12 1. Airport control towers;
13 2. Open parking structures; and
14 3. Occupancies in Group F-2.

15
16 **30.53A.1085 During construction.**

17
18 Automatic sprinkler systems required during construction, alteration and demolition operations
19 shall be provided in accordance with chapter 33 of the IFC.

20
21 **30.53A.1090 Ducts conveying hazardous exhausts.**

22
23 Where required by the International Mechanical Code, automatic sprinklers shall be provided in
24 ducts conveying hazardous exhaust, or flammable or combustible materials.

25 Exception:

26 Ducts in which the largest cross-sectional diameter of the duct is less than 10 inches (254 mm).

27
28 **30.53A.1095 Commercial cooking operations.**

29
30 An automatic sprinkler system shall be installed in commercial kitchen exhaust hoods and duct
31 systems where an automatic sprinkler system is used to comply with section 904 of the IFC.

32
33 **30.53A.1100 Other required suppression systems.**

34
35 In addition to the requirements of SCC 30.53A.905, the provisions indicated in Table
36 30.53A.1100A also require the installation of a suppression system for certain buildings and areas.

37
38 **TABLE 30.53A.1100A**

39
40 **ADDITIONAL REQUIRED SUPPRESSION SYSTEMS**

41

IBC SECTION	SUBJECT
402.10	Covered and open mall buildings

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403.3	High-rise buildings
404.3	Atriums
405.3	Underground structures
407.5	Group 1-2
410.7	Stages
411.4	Special amusement buildings
412.4.6, 412.4.6.1, 402.6.5	Aircraft hangars
415.10.11	Group H-5 HPM exhaust ducts
416.5	Flammable finishes
417.4	Drying rooms
507	Unlimited area buildings
509.4	Incidental uses
1028.6.2.3	Smoke-protected assembly seating
IFC	Sprinkler system requirements as set forth in Table 903.2.11.6 IFC

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30.53A.1105 Installation requirements.

Automatic sprinkler systems shall be designed and installed in accordance with SCC 30.53A.1110 through 30.53A.1180.

30.53A.1110 Standards.

Sprinkler systems shall be designed and installed in accordance with SCC 30.53A.1115, 30.53A.1120 or 30.53A.1125 and other sections of this chapter, as applicable.

30.53A.1115 NFPA 13 sprinkler systems.

Where the provisions of the construction codes require that a building or portion thereof be equipped throughout with an automatic sprinkler system in accordance with this section or section 903.3.1.1 of the IFC or IBC, sprinklers shall be installed throughout in accordance with NFPA 13 except as provided below.

Exempt locations:

Automatic sprinklers shall not be required in the following rooms or areas where such

1 rooms or areas are protected with an approved automatic fire detection system, in
2 accordance with section 907.2 of the IFC that will respond to visible or invisible particles of
3 combustion. Sprinklers shall not be omitted from any room merely because it is damp, of
4 fire-resistance-rated construction or contains electrical equipment.

- 5 1. Any room where the application of water, or flame and water, constitutes a serious life
6 or fire hazard.
- 7 2. Any room or space where sprinklers are considered undesirable because of the nature
8 of the contents, when approved by the fire marshal.
- 9 3. Generator and transformer rooms separated from the remainder of the building by
10 walls and floor/ceiling or roof/ceiling assemblies having a fire-resistance rating of not
11 less than 2 hours.
- 12 4. Rooms or areas that are of noncombustible construction with wholly noncombustible
13 contents.
- 14 5. Fire service access elevator machine rooms and machinery spaces.
- 15 6. Machine rooms and machinery spaces associated with occupant evacuation elevators
16 designed in accordance with Section 3008 of the IBC.

17
18 **30.53A.1120 NFPA 13R sprinkler systems.**

19
20 (1) Automatic sprinkler systems in Group R occupancies, up to and including four stories in height
21 shall be permitted to be installed throughout in accordance with NFPA 13R.

22 (2) Sprinkler protection shall be provided for exterior balconies, decks and ground floor patios of
23 dwelling units where the building is of Type V construction, provided there is a roof or deck above.
24 Sidewall sprinklers that are used to protect such areas shall be permitted to be located such that
25 their deflectors are within 1 inch (25 mm) to 6 inches (152 mm) below the structural members and
26 a maximum distance of 14 inches (356 mm) below the deck of the exterior balconies and decks
27 that are constructed of open wood joist construction.

28
29 **30.53A.1125 NFPA 13D sprinkler systems.**

30
31 Automatic sprinkler systems installed in one and two-family dwellings, Group R-3 and R-4
32 congregate living facilities and townhouses shall be permitted to be installed throughout in
33 accordance with NFPA 13D.

34
35 **30.53A.1130 Quick-response and residential sprinklers.**

36
37 Where automatic sprinkler systems are required by this chapter, quick-response or residential
38 automatic sprinklers shall be installed in the following areas in accordance with SCC 30.53A.1110
39 and their listings:

- 40 (1) Throughout all spaces within a smoke compartment containing care recipient sleeping units in
41 Group I-2 in accordance with the IBC.
- 42 (2) Throughout all spaces within a smoke compartment containing treatment rooms in ambulatory
43 care facilities.
- 44 (3) Dwelling units and sleeping units in Group R and I-1 occupancies.

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1 (4) Light-hazard occupancies as defined in NFPA 13.

2
3 **30.53A.1135 Obstructed locations.**

4
5 Automatic sprinklers shall be installed with due regard to obstructions that will delay activation or
6 obstruct the water distribution pattern. Automatic sprinklers shall be installed in or under covered
7 kiosks, displays, booths, concession stands, or equipment that exceeds 4 feet (1,219 mm) in width.
8 Not less than a 3-foot (914 mm) clearance shall be maintained between automatic sprinklers and
9 the top of piles of combustible fibers.

10
11 **Exception:**

12
13 Kitchen equipment under exhaust hoods protected with a fire-extinguishing system in
14 accordance with section 904 of the IFC.

15
16 **30.53A. 1140 Actuation.**

17
18 Automatic sprinkler systems shall be automatically actuated unless specifically provided for in the
19 fire code.

20
21 **30.53A.1145 Water supplies.**

22
23 (1) Water supplies for automatic sprinkler systems shall comply with this section and the standards
24 referenced in SCC 30.53A.1110 The potable water supply shall be protected against backflow in
25 accordance with the requirements of this section and the plumbing code.

26 (2) Where the domestic service provides the water supply for the automatic sprinkler system, the
27 supply shall be in accordance with this section.

28 (3) Limited area sprinkler systems serving fewer than 20 sprinklers on any single connection are
29 permitted to be connected to the domestic service where a wet automatic standpipe is not
30 available. Limited area sprinkler systems connected to domestic water supplies shall comply with
31 each of the following requirements:

32 (a) Valves shall not be installed between the domestic water riser control valve and the sprinklers.

33
34 **Exception:** An approved indicating control valve supervised in the open position in
35 accordance with SCC 30.53A.1160

36
37 (b) The domestic service shall be capable of supplying the simultaneous domestic demand and
38 the sprinkler demand required to be hydraulically calculated by NFPA 13, NFPA 13R or NFPA
39 13D.

40 (4) A single combination water supply shall be allowed provided that the domestic demand is
41 added to the sprinkler demand as required by NFPA 13R.

42 (5) An automatic secondary on-site water supply having a capacity not less than the hydraulically
43 calculated sprinkler demand, including the hose stream requirement, shall be provided for high-rise
44 buildings in Seismic Design Category C, D, E or F as determined by the IBC. An additional fire

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1 pump shall not be required for the secondary water supply unless needed to provide the minimum
2 design intake pressure at the suction side of the fire pump supplying the automatic sprinkler
3 system. The secondary water supply shall have a duration of not less than 30 minutes as
4 determined by the occupancy hazard classification in accordance with NFPA 13.
5

6 **Exception:** Existing buildings.
7

8 **30.53A.1150 Hose threads.**
9

10 Fire hose threads and fittings used in connection with automatic sprinkler systems shall be as
11 prescribed by the fire marshal.
12

13 **30.53A.1155 Fire department connections.**
14

15 The location of the fire department connections shall be approved by the fire marshal.
16

17 **30.53A.1160 Sprinkler system supervision and alarms.**
18

19 All valves controlling the water supply for automatic sprinkler systems, pumps, tanks, water levels
20 and temperatures, critical air pressures and water-flow switches on all sprinkler systems shall be
21 electrically supervised by a listed fire alarm control unit.
22

23 **Exceptions:**
24

- 25 1. Automatic sprinkler systems protecting one- and two-family dwellings;
- 26 2. Limited area systems serving fewer than 20 sprinklers;
- 27 3. Automatic sprinkler systems installed in accordance with NFPA 13R where a common
28 supply main is used to supply both domestic water and the automatic sprinkler systems
29 and a separate shutoff valve for the automatic sprinkler system is not provided;
- 30 4. Jockey pump control valves that are sealed or locked in the open position;
- 31 5. Control valves to commercial kitchen hoods, paint spray booths or dip tanks that are
32 sealed or locked in the open position;
- 33 6. Valves controlling the fuel supply to fire pump engines that are sealed or locked in the
34 open position; and
- 35 7. Trim valves to pressure switches in dry, pre-action and deluge sprinkler systems that are
36 sealed or locked in the open position.
37

38 **30.53A.1165 Monitoring.**
39

40 Alarm, supervisory and trouble signals shall be distinctly different and shall be automatically
41 transmitted to an approved supervising station or, when approved by the fire marshal, shall sound
42 an audible signal at a constantly attended location.
43

1
2 **Exceptions:**
3

- 4 1. Underground key or hub valves in roadway boxes provided by the municipality or public
5 utility are not required to be monitored.
6 2. Backflow prevention device test valves located in limited area sprinkler system supply
7 piping shall be locked in the open position. In occupancies required to be equipped with
8 a fire alarm system, the backflow preventer valves shall be electrically supervised by a
9 tamper switch installed in accordance with NFPA 72 and separately annunciated.

10
11 **30.53A.1170 Alarms.**
12

13 An approved audible device, located on the exterior of the building in an approved location, shall
14 be connected to each automatic sprinkler system. Such sprinkler water-flow alarm devices shall be
15 activated by water flow equivalent to the flow of a single sprinkler of the smallest orifice size
16 installed in the system. Where a fire alarm system is installed, actuation of the automatic sprinkler
17 system shall actuate the building fire alarm system.
18

19 **30.53A.1175 Floor control valves.**
20

21 Approved supervised indicating control valves shall be provided at the point of connection to the
22 riser on each floor in high-rise buildings.
23

24 **30.53A.1180 Testing and maintenance.**
25

26 Sprinkler systems shall be tested and maintained in accordance with section 901 of the IFC.
27

28 **30.53A.1185 Where required in existing buildings and structures.**
29

30 An automatic sprinkler system shall be provided in existing buildings and structures where required
31 in chapter 11 of the IFC.
32

33 Section 26. Snohomish County Code Section 30.86.430, last amended by Amended
34 Ordinance No. 12-018 on May 2, 2012, is amended to read:
35

36 **30.86.430 Fire code fees.**
37

38 **Table 30.86.430 – FIRE CODE FEES**
39

ANNUAL FIRE INSPECTION FEE (1)	
Building size in square feet	FEE

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	B, M, R (Less than 20 Units), U Occupancies (Group 1)	A, E, R (More than 20 Units) Occupancies (Group 2)	F, H, I, S Occupancies (Group 3)
0-1,000	\$45	\$75	\$95
1,001-2,500	\$65	\$105	\$165
2,501-5,000	\$95	\$155	\$245
5,001-7,500	\$115	\$185	\$285
7,501-10,000	\$125	\$195	\$300
10,001-12,500	\$145	\$230	\$315
12,501-15,000	\$165	\$275	\$330
15,001-17,500	\$175	\$295	\$345
17,501-20,000	\$190	\$310	\$365
20,001-30,000	\$215	\$350	\$375
30,001-40,000	\$230	\$375	\$385
40,001-50,000	\$245	\$400	\$400
50,001-60,000	\$260	\$425	\$425
60,001-70,000	\$275	\$450	\$450
70,001-100,000	\$300	\$475	\$475
100,001-150,000	\$350	\$500	\$500
150,001-200,000	\$400	\$525	\$525
OVER 200,000	\$450	\$550	\$550
REINSPECTION FEES			
For uncorrected violations at time of re-inspection			\$60
FIRE PLAN REVIEW AND PERMIT FEES			
((Riser system))			(((\$50 each))
Fuel storage tank			\$50 each
((Alarm system))			(((\$50 each))
<u>GATE OR BARRICADE ACROSS A FIRE APPARATUS ACCESS ROAD</u> (These fees are subject to a commercial mechanical base fee per SCC Table 30.86.400(5).)			
<u>Plan review</u>			<u>\$130</u>

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<u>Inspection</u>	<u>\$150</u>	
<u>FIRE PROTECTION SPRINKLER SYSTEM FEES</u> (These fees are subject to a mechanical base fee per SCC Table 30.86.400(5). Each system requires a separate permit.)		
<u>Commercial (NFPA 13R and NFPA 13 Systems*)</u>		
<u>Number of heads</u>	<u>Plan review fee due at application</u>	<u>Permit fee due at issuance</u>
<u>1-25</u>	<u>\$260</u>	<u>\$150</u>
<u>26-50</u>	<u>\$400</u>	<u>\$300</u>
<u>51-100</u>	<u>\$450</u>	<u>\$375</u>
<u>101-500</u>	<u>\$525</u>	<u>\$450</u>
<u>501-1,000</u>	<u>\$780</u>	<u>\$675</u>
<u>Over 1,000</u>	<u>\$1,300</u>	<u>\$900</u>
*Includes specialty fire suppression systems		
<u>Single-Family Residential (NFPA 13D Systems)</u>		
<u>Number of heads</u>	<u>Plan review fee due at application</u>	<u>Permit fee due at issuance</u>
<u>1-50</u>	<u>\$65</u>	<u>\$200</u>
<u>51-100</u>	<u>\$130</u>	<u>\$300</u>
<u>101-1,000</u>	<u>\$400</u>	<u>\$750</u>
<u>FIRE PUMP (These fees are subject to a mechanical base fee per SCC Table 30.86.400(5).)</u>		
<u>Fire pump</u>	<u>Plan review fee due at application</u>	<u>Permit fee due at issuance</u>
<u>Per each fire pump</u>	<u>\$260</u>	<u>\$450</u>
<u>UNDERGROUND SUPPLY PIPING FOR AUTOMATIC SPRINKLER SYSTEM</u> (These fees are subject to a mechanical base fee per SCC Table 30.86.400(5).)		

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	<u>Plan review</u>	<u>Permit</u>
	<u>\$260</u>	<u>\$150</u>
<u>FIRE ALARMS (new or additions)</u>		
<u>(These fees are subject to a mechanical base fee per SCC Table 30.86.400(5). Each system requires a separate permit.)</u>		
<u>Number of appliances and devices*</u>	<u>Plan review fee due at application</u>	<u>Permit fee due at issuance</u>
<u>1-10</u>	<u>\$130</u>	<u>\$150.00</u>
<u>11-50</u>	<u>\$200</u>	<u>\$300.00</u>
<u>51-100</u>	<u>\$250</u>	<u>\$450.00</u>
<u>101-200</u>	<u>\$525</u>	<u>\$600.00</u>
<u>201-500</u>	<u>\$650</u>	<u>\$1,200</u>
<u>501-1,000</u>	<u>\$780</u>	<u>\$1,800</u>
<u>Over 1,000</u>	<u>\$1,050</u>	<u>\$2,400</u>
<u>* Includes, but is not limited to, horn strobes, bells, beam detectors, pull stations, smoke detectors, and heat detectors.</u>		
<u>SPECIAL EVENT PERMIT</u>		
<u>Special Event Type</u>	<u>Number of Participants</u>	<u>Fees</u>
Private	50 or more	\$430
Public	50-99	\$430
Public	100 or more	\$490
<u>PYROTECHNIC FIREWORKS</u>		
Retail fireworks		\$100
Wholesale fireworks		\$100
<u>OPEN BURNING PERMITS</u>		
Residential		\$30
Residential Annual Renewal		\$15

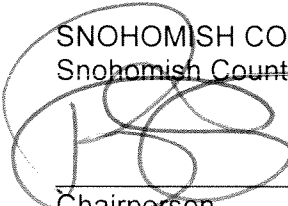
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Land Clearing		\$300
MARIJUANA EXTRACTION SYSTEMS (These fees are subject to a commercial mechanical base fee per SCC Table 30.86.400(5).)		
<u>Valuation of system</u>	<u>Plan review fee due at application</u>	<u>Permit fee due at issuance</u>
<u>< \$25,000</u>	<u>\$400</u>	<u>\$300</u>
<u>\$25,000 - \$50,000</u>	<u>\$525</u>	<u>\$450</u>
<u>\$50,001 - \$100,000</u>	<u>\$650</u>	<u>\$600</u>
<u>> \$100,000</u>	<u>\$780</u>	<u>\$750</u>
Reference note: (1) These fees shall be charged for all inspections required by chapter 30.53A SCC based upon the square footage area of inspected premises and the residential or building code classification associated with the primary use of the premises.		

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Section 27. Severability and Savings. If any section, sentence, clause or phrase of this ordinance shall be held to be invalid by the Growth Management Hearings Board ("Board"), or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the validity or constitutionality of any other section, sentence, clause or phrase of this ordinance. Provided, however, that if any section, sentence, clause or phrase of this ordinance is held to be invalid by the Board or court of competent jurisdiction, then the section, sentence, clause or phrase in effect prior to the effective date of this ordinance shall be in full force and effect for that individual section, sentence, clause or phrase as if this ordinance had never been adopted

PASSED this 18th day of October, 2017

SNOHOMISH COUNTY COUNCIL
Snohomish County, Washington

Chairperson

ATTEST:

Clerk of the Council

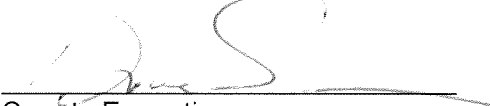
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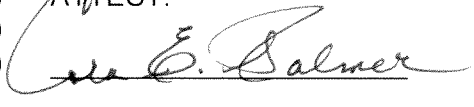
- APPROVED
- EMERGENCY
- VETOED

Date: Oct 30, 2017



 County Executive

ATTEST:



Approved as to form only:

 Deputy Prosecuting Attorney

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