ORDINANCE NO. 4082

AN ORDINANCE of the City Council of the City of Kent, Washington, amending Chapter 13.01 of the Kent City Code to adopt the 2012 edition of the International Fire Code and to make other amendments applicable to Kent.

RECITALS

A. In response to legislative amendments adopted by the State of Washington, the Kent City Council enacted Ordinance No. 3957 on May 18, 2010, which adopted the 2009 edition of the International Fire Code. The state recently adopted the 2012 edition of this code, which takes effect and applies to all cities in the state on July 1, 2013. Therefore, it is necessary to amend the Kent City Code to formally adopt the same.

B. In addition to adopting the 2012 code edition, this ordinance also includes other amendments to reduce the cost of building projects by the elimination of our local fire alarm threshold while maintaining the life safety provisions of the model code, to standardize requirements to help streamline reporting and inspections, to create additional flexibility in development regulations in the area of fire department access and water supply, and to adjust to the new chapter structure within the 2012 International Fire Code.
NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF KENT, WASHINGTON, DOES HEREBY ORDAIN AS FOLLOWS:

ORDINANCE

SECTION 1. Amendment. Chapter 13.01 of the Kent City Code, entitled "Fire Codes," is amended as follows:

Chapter 13.01
FIRE CODES

Sec. 13.01.010. Fire code – Adopted. In accordance with Chapter 19.27 RCW, the International Fire Code, 2009–2012 Edition, published by the International Code Council, Inc., together with any additions, deletions, and exceptions currently enacted or as may be amended from time to time by the state of Washington through its Building Code Council pursuant to Chapter 51-54A of the Washington Administrative Code ("WAC"), and as further amended in this chapter, is hereby adopted and incorporated by this reference.

One (1) copy of the International Fire Code and the appendices adopted in KCC 13 01 030(A) are on file with the city’s fire code official.

Sec. 13.01.020. Code conflicts. To the extent allowed by RCW 19.27.040, if a conflict exists between the provisions of the International Fire Code adopted and amended by the Washington State Building Code Council and the provisions of this chapter, the Kent City Code provisions shall govern.

Sec. 13.01.030. Amendments to the International Fire Code – Chapter 1, Scope and Administration. The following local amendments to Chapter 1 of the International Fire Code, entitled "Scope and Administration," including all amendments enacted by the State of
Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. **Scope and General Requirements – Fire code appendix adopted.** Section 101 of the International Fire Code, entitled “Scope and General Requirements,” is amended by adding the following new subsection 101.6:

   **Sec. 101.6. Fire code appendix adopted.** Appendix B of the International Fire Code is hereby adopted.

B. **General authority and responsibilities – Retained authority.** Section 104 of the International Fire Code, entitled “General Authority and Responsibilities,” is amended by adding the following new subsection 104.1.1:

   **Sec. 104.1.1. Retained authority – Additional conditions.** The fire code official retains the authority to impose additional conditions where the official determines it necessary to mitigate identified fire protection impacts and problematic fire protection systems. These conditions may include, by way of example and without limitation, increased setbacks, use of fire retardant materials, installation and/or modification of standpipes, automatic fire sprinkler and fire alarm systems.

C. **General authority and responsibilities – Lot lines and setback lines.** Section 104 of the International Fire Code, entitled “General Authority and Responsibilities,” is amended by adding the following new subsection 104.12:

   **Sec. 104.12. Lot lines and setback lines.** Notwithstanding the authority of the fire code official to administer and enforce the fire code, the fire code official shall have no duty to verify or establish lot lines or setback lines. No such duty is created by this code and none shall be implied.
D. **Permits – Term.** Section 105 of the International Fire Code, entitled “Permits,” is amended by adding the following new subsection 105.1.4:

**Sec. 105.1.4. Term.** Operational permits issued in accordance with this code shall be valid for a 12 month period and are renewable at the end of that 12 month term.

E. **Permits – Expiration of project permit application.** Section 105 of the International Fire Code, entitled “Permits,” is amended by substituting subsection 105.2.3 with the following:

**Sec. 105.2.3. Expiration of project permit application.** Project permit applications that are subject to Ch. 12.01 KCC or that require SEPA review are subject to those deadlines. All other project permit applications shall expire by limitation if no permit is issued within 180 days after the determination that a fully complete project permit application has been submitted, unless, in the fire code official determines, in his or her sole discretion, that the application has been pursued in good faith. The fire code official may extend the time for action on the permit application for one or more periods, each period not exceeding 90 days, upon written request by the applicant if the applicant can demonstrate, to the satisfaction of the fire code official, that circumstances beyond the applicant’s control have prevented action from being taken. If an application has expired, plans and other data previously submitted for review may thereafter be returned to the applicant or destroyed by the fire code official. In order to renew action on an expired application, the applicant shall resubmit plans and pay a new review fee.

F. **Permits – Electronic Image.** Section 105 of the International Fire Code, entitled “Permits,” is amended by adding the following new subsection 105.4.7:

**Sec. 105.4.7. Electronic Image.** Prior to final inspection, the applicant shall provide to the fire code official an electronic image of issued construction documents and corrected documents in accordance with 105.4.6.
G. **Permits - Commercial kitchens.** Section 105 of the International Fire Code, entitled “Permits,” is amended by adding the following new subsection 105.6.47:

**Sec. 105.6.47. Commercial Kitchen.** An operational permit is required for all commercial kitchens with type I hood systems.

H. **Permits - Emergency and standby power systems.** Section 105 of the International Fire Code, entitled “Permits,” is amended by adding the following new subsection 105.6.48:

**Sec. 105.6.48. Emergency and standby power systems.** An operational permit is required for emergency or standby power systems required by code and identified in NFPA 110.

I. **Permits - Emergency and standby power systems.** Section 105 of the International Fire Code, entitled “Permits,” is amended by adding the following new subsection 105.7.15:

**Sec. 105.7.15. Emergency and standby power systems.** A construction permit is required for the installation of emergency or standby power systems required by code and identified in NFPA 110.

J. **Board of appeals.** Section 108 of the International Fire Code, entitled “Board of appeals,” is amended by substituting Section 108 with the following:

**Sec. 108. Board of appeals.** The City of Kent hearings examiner is designated as the board of appeals in order to hear and decide appeals of orders, decisions, or determinations made by the fire code official relative to the suitability of alternate materials, designs, and methods of construction and appeals of the reasonable application and interpretation of the building and fire codes. Appeals shall be made as set forth in section 13.01.130 of the Kent City Code.
K. Violation penalties. Section 109 of the International Fire Code, entitled “Violations,” is amended by substituting subsection 109.3 with the following:

Sec. 109.3. Violation penalties. Any person who violates a provision of this code, or fails to comply with any of its requirements, or who erects, constructs, alters, or repairs a building or structure in violation of (a) the approved construction documents, (b) a directive of the fire code official, or (c) a permit or certificate issued under the provisions of this code, shall be subject to penalties as set forth in Ch. 13.02 of the Kent City Code or as otherwise provided by law.

L. Fees. Section 113 of the International Fire Code, entitled “Fees,” is amended by substituting subsection 113.1 with the following:

Sec. 113.1. Fees. The fire code official shall collect fees as a condition to issuance or renewal of any permit or certificate.

M. Fees – Schedule of permit fees. Section 113 of the International Fire Code, entitled “Fees,” is amended by substituting subsection 113.2 with the following:

Sec. 113.2. Schedule of Permit Fees. The fire code official shall prepare a resolution establishing a schedule of fees for council consideration, which fees shall include the cost involved in the processing, issuance, and renewal of permits and certificates. Any fee schedule adopted by resolution shall govern the fee amount to be assessed for any permit or certificate.

N. Fees – Work commencing before permit issuance. Section 113 of the International Fire Code, entitled “Fees,” is amended by substituting subsection 113.3 with the following:

Sec. 113.3. Work commencing before permit issuance. When work for which a permit is required by this code has commenced without a permit, the fees shall be doubled. The payment of such double fees shall not relieve any persons from the...
requirements of this code from any penalties prescribed by this code.

NO. Fees – Termination. Section 113 of the International Fire Code, entitled “Fees,” is amended by adding the following new subsection 113.6:

   Sec. 113.6. Termination. Failure to pay for either an original permit or the required renewal within 30-60 days of the date notice is given, shall result in the City’s termination of the permit or certificate application.

Sec. 13.01.040. Amendments to the International Fire Code
- Chapter 2, Definitions. The following local amendments to Chapter 2 of the International Fire Code, entitled “Definitions,” including all amendments enacted by the State of Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. Definitions – General. Section 202 of the International Fire Code, entitled “Definitions,” is amended by adding the following definition to subsection 202:

   PROBLEMATIC FIRE PROTECTION SYSTEM. A fire protection system that generates repeated preventable.

Sec. 13.01.040050. Amendments to the International Fire Code – Chapter 3, General Requirements. The following local amendment to Chapter 3 of the International Fire Code, entitled “General Requirements,” including all amendments enacted by the State of Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. Miscellaneous Combustible Materials Storage – Idle Pallets. Section 315 of the International Fire Code, entitled “Miscellaneous Combustible
Materials Storage,” is amended by adding a new subsection 315.34.3 as follows:

Sec. 315.34.3. Idle Pallets. Idle pallets shall be stored in accordance with Sections 315.34.3.1 through 315.34.3.4.

Sec. 315.34.3.1. Buildings protected with automatic sprinklers. In buildings protected with approved automatic sprinklers, the storage of idle pallets shall be in accordance with NFPA 13 Table A12.12.1.1.

Sec. 315.34.3.2. Buildings without sprinkler protection. In buildings that do not have protection through approved automatic sprinklers, the storage of idle pallets shall be in accordance with Table 315.34.3.2.

<table>
<thead>
<tr>
<th>Construction Type</th>
<th>Openings</th>
<th>0-50 Pallets</th>
<th>51-200 Pallets</th>
<th>Over 200 Pallets</th>
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<tbody>
<tr>
<td>Masonry</td>
<td>None</td>
<td>5</td>
<td>5</td>
<td>10</td>
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<tr>
<td>Masonry</td>
<td>1 hour protected openings</td>
<td>5</td>
<td>10</td>
<td>20</td>
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<tr>
<td>Masonry</td>
<td>3/4 hour protected openings</td>
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<td>30</td>
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<tr>
<td>Masonry</td>
<td>Non protected openings</td>
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<td>30</td>
<td>50</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td>20</td>
<td>30</td>
<td>50</td>
</tr>
</tbody>
</table>

1 All distances measured in feet.

Sec. 315.34.3.3. Separation from other storage. The storage of idle pallets shall be separated from other storage in accordance with Table 315.34.3.3.
Table 315.34.3.3
Clearance to Other Storage

<table>
<thead>
<tr>
<th>Pile Size</th>
<th>Minimum Distance¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-50</td>
<td>20</td>
</tr>
<tr>
<td>51-200</td>
<td>30</td>
</tr>
<tr>
<td>Over 200</td>
<td>50</td>
</tr>
</tbody>
</table>

¹ All distances measured in feet.

Sec. 315.34.3.4. Stacks. Pallet stacks shall be arranged to form stable piles. Piles shall be limited to an area not greater than 400 square feet. A distance half the pile height or not less than 8 ft. shall separate stacks.

Sec. 13.01.05060. Amendments to the International Fire Code – Chapter 5, Fire Service Features. The following local amendments to Chapter 5 of the International Fire Code, entitled “Fire Service Features,” including all amendments enacted by the State of Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. Fire Service Features—Definitions. Section 502 of the International Fire Code, entitled “Definitions,” is amended by adding the following definition to subsection 502.1:

LIFE SAFETY RESCUE ACCESS. Unobstructed access to all floor levels and each roof level of a building on not less than 20 percent of the building perimeter by utilizing a 35-foot ladder. An alternate method would be at least 1 stairway enclosure with exit doorways from each floor level and with a door opening onto each roof level which conforms to the requirements of the International Building Code.

GB. Fire apparatus access roads – Dimensions. Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by substituting subsection 503.2.1 with the following:

Sec. 503.2.1. Dimensions. The following minimum dimensions shall apply for fire apparatus access roads:

1. Fire apparatus access roads shall have an unobstructed width of not less than 20 feet (6096 mm), except for approved security gates in accordance with section 503.6, and an unobstructed vertical clearance of not less than 13 feet 6 inches (4115 mm).

2. Fire apparatus access road routes shall be approved by the fire code official. At least one of the required fire apparatus access roads shall be located at least 15 feet and not more than 25 feet from each building on the premises and shall be positioned parallel to one entire side of each building. The measurement for this requirement shall be taken from the exterior wall of the building to the nearest edge of the fire apparatus access road.

DC. Fire apparatus access roads – Surface. Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by substituting subsection 503.2.3 with the following:

Sec. 503.2.3. Surface. Fire apparatus access roads shall be constructed with a surface of asphalt, concrete, or other approved driving surface capable of supporting the imposed load of fire apparatus weighing at least 30 tons (27,240 kg).

ED. Fire apparatus access roads – Turning radius. Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by substituting subsection 503.2.4 with the following:

Sec. 503.2.4. Turning radius. All fire apparatus access roads shall have a 30 foot minimum inside turning radius and a 50 foot minimum outside turning radius. The radius must be measured from the travel lane edge, unless otherwise approved.
FE. *Fire apparatus access roads – Dead Ends.* Section 503 of the International Fire Code is amended by substituting subsection 503.2.5 with the following:

**Sec. 503.2.5. Dead ends.** Dead-end fire apparatus access roads in excess of 150 feet (45.72 m) in length shall be provided with an approved turnaround designed as illustrated in the Kent Design and Construction Standards, unless otherwise approved.

GE. *Fire apparatus access roads – Bridges and elevated surfaces.* Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by substituting subsection 503.2.6 with the following:

**Sec. 503.2.6. Bridges and elevated surfaces.** Where a bridge or an elevated surface is part of a fire apparatus access road, the bridge or elevated surface shall be constructed and maintained in accordance with specifications established by the fire code official and the City's public works director, or their designees; at a minimum, however, the bridge or elevated surface shall be constructed and maintained in accordance with AASHTO Standard Specifications for Highway Bridges. Bridges and elevated surfaces shall be designed for a live load sufficient to carry the imposed loads of a 30 or more ton fire apparatus, the total imposed load to be determined by the fire code official. Vehicle load limits shall be posted at both entrances to bridges when required by the fire code official. Where elevated surfaces designed for emergency vehicle use are adjacent to surfaces which are not designed for that use, approved barriers or approved signs, or both, shall be installed and maintained, if required by the fire code official.

HG. *Fire apparatus access roads – Grade.* Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by substituting subsection 503.2.7 with the following:

**Sec. 503.2.7. Grade.** Fire apparatus access roads shall not exceed 15 percent longitudinal and/or 6 percent laterally in grade. Approach and departure
angle for fire apparatus access shall be as determined by the fire code official.

**IH. Fire apparatus access roads – Access road width with a hydrant.**

Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by adding the following new subsection 503.2.9:

**Sec. 503.2.9. Access road width with a hydrant.**
Where a fire hydrant is located on a fire apparatus access road, the minimum road width shall be 26 feet for 20 feet on both sides of the hydrant operating nut and shall be marked as a fire lane per Section 503.3.

**II. Fire apparatus access roads – Marking.** Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by substituting subsection 503.3 with the following:

**Sec. 503.3. Marking.** Fire apparatus access roads shall be marked whenever necessary to maintain the unobstructed minimum required width of roadways. Subject to the fire code official’s prior written approval, marked fire apparatus access roads, or “fire lanes” may be established or relocated at the time of plan review, pre-construction site inspection, and/or post construction site inspection as well as any time during the life of the occupancy. Only those fire apparatus access roads established by the fire code official can utilize red marking paint and the term “fire lane.” Fire lanes shall be marked as directed by the fire code official with one or more of the following types of markings in accordance with the Kent Design and Construction Standards:

**Sec. 503.3.1. Type 1.** Type 1 marking shall be installed to identify fire lanes on commercial and multi-family developments or as directed by the fire code official.

**Sec. 503.3.2. Type 2.** Type 2 marking shall be installed to identify fire lanes in one- and two-family dwelling developments, turnarounds, or as directed by the fire code official.
Sec. 503.3.3. Type 3. Type 3 marking shall be installed to address situations where neither Type 1 or 2 marking is effective as determined by the fire code official.

1. Specific areas designated by the fire code official shall be marked with diagonal striping across the width of the fire lane. Diagonal marking shall be used in conjunction with painted curbs and/or edge striping and shall run at an angle of 30 to 60 degrees from one side to the other. These diagonal lines shall be in red traffic paint, parallel with each other, at least 6 inches in width, and 24 inches apart. Lettering shall occur as with Type 1 marking.

K]. Fire apparatus access roads – Commercial and Industrial Developments. Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by adding the following new subsection 503.7:

Sec. 503.7. Commercial and Industrial Developments. Fire apparatus access roads serving commercial and industrial developments shall be in accordance with Sections 503.7.1 through 503.7.3.

Sec. 503.7.1. Buildings exceeding three stories or 30 feet in height. Buildings or facilities exceeding 30 feet or three stories in height shall have at least three means of fire apparatus access for each structure.

Sec. 503.7.2. Buildings exceeding 62,000 square feet in area. Buildings or facilities having a gross building area of more than 62,000 square feet shall be provided with two separate and approved fire apparatus access roads.

Exception: Projects having a gross building area of up to 124,000 square feet that have a single approved fire apparatus access road when all buildings are equipped throughout with approved automatic sprinkler systems.
Sec. 503.7.3. Remoteness. Where two access roads are required, they shall be placed a distance apart equal to not less than one half of the length of the maximum overall diagonal dimension of the property or area to be served, measured in a straight line between accesses.

§K. Fire apparatus access roads – Aerial Fire Apparatus Access Roads. Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by adding the following new subsection 503.8:

Sec. 503.8. Aerial fire apparatus roads. The fire apparatus access roads that accommodate aerial fire apparatus shall be in accordance with Sections 503.8.1 through 503.8.3.

Sec. 503.8.1. Where required. Buildings or portions of buildings or facilities exceeding 30 feet in height above the lowest level of fire department vehicle access shall be provided with approved fire apparatus access roads that are capable of accommodating fire department aerial apparatus. Overhead utility and power lines shall not be located within the aerial fire apparatus access roadway.

Sec. 503.8.2 Width. Fire apparatus access roads shall have a minimum unobstructed width of 26 feet, exclusive of shoulders, in the immediate vicinity of any building or portion of building more than 30 feet in height.

Sec. 503.8.3 Proximity to building. At least one of the required access routes meeting this condition shall be positioned parallel to one entire side of the building. The location of the parallel access route shall be approved.

ML. Fire apparatus access roads – Multi-Family Residential Developments. Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by adding the following new subsection 503.9:

Sec. 503.9. Multi-family residential developments. The fire apparatus access roads
serving multi-family residential developments shall be in accordance with Sections 503.9.1 through 503.9.2.

**Sec. 503.9.1. Projects having from 100 through 200 dwelling units.** Multi-family residential projects having from 100 through 200 dwelling units shall be provided with two separate and approved fire apparatus access roads.

**Exception:** Projects having up to 200 dwelling units may have a single approved fire apparatus access road when all buildings, including nonresidential occupancies, are equipped throughout with approved automatic sprinkler systems installed in accordance with Section 903.3.1.1 or 903.3.1.2.

**Sec. 503.9.2. Projects having more than 200 dwelling units.** Multi-family residential projects having more than 200 dwelling units shall be provided with two separate and approved fire apparatus access roads regardless of whether they are equipped with an approved automatic sprinkler system.

**NM. Fire apparatus access roads – One- and Two-Family Residential Developments.** Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by adding the following new subsection 503.10:

**Sec. 503.10. One- and Two-family residential developments.** The fire apparatus access roads serving one- and two-family residential developments shall be in accordance with Sections 503.10.1.

**Sec. 503.10.1. Projects having more than 30 dwelling units.** Developments of one- or two-family dwellings where the number of dwelling units exceeds 30 shall be provided with separate and approved fire apparatus access roads and shall meet the requirements of Section 503.7.3.

**Exceptions:**

1. Where there are more than 30 dwelling units on a single public or private fire apparatus access road and
all dwelling units are equipped throughout with approved automatic sprinkler systems installed in accordance with Section 903.3.1.1, 903.3.1.2, or 903.3.1.3 of the International Fire Code, access from two directions shall not be required.

2. The number of dwelling units on a single fire apparatus access road shall not be increased unless fire apparatus access roads will, within a reasonable time, connect with future development, as determined by the fire code official.

ON. Fire Apparatus Access Roads – Underground Structures. Section 503 of the International Fire Code, entitled “Fire Apparatus Access Roads,” is amended by adding the following new subsection 503.11:

Sec. 503.11. Underground structures. Installation of underground structures under or within 10 feet of fire apparatus access roads shall be designed using approved load criteria that shall accommodate the loading of fire department aerial apparatus unless otherwise approved.

O. Fire protection water supplies – Inspection, testing and maintenance. Section 507 of the International Fire Code, entitled “Fire Protection Water Supplies,” is amended by substituting subsection 507.5.2 as follows with the following:

Sec. 507.5.2. Inspection, testing and maintenance. Private fire hydrant systems shall be subject to annual testing. Fire hydrant systems shall be maintained in operative condition at all times and shall be repaired where defective. Additions, repairs, alterations, and servicing shall comply with approved standards.

P. Access to building openings and roofs — Required access. Section 504 of the International Fire Code, entitled “Access to Building Openings and Roofs,” is amended by substituting subsection 504.1 with the following:

Sec. 504.1. Required access. The following points of access must be provided:
1. Exterior doors and openings required by this code or the International Building Code shall be maintained readily accessible for emergency access by the fire department.

2. An approved access walkway shall be provided to connect fire apparatus access roads to exterior openings.

3. All occupancies shall be required to provide approved life safety rescue access.

**Exception:**

1. Miscellaneous Group U occupancies.

2. Roof access need not be provided to roof levels having slope greater than 4 in 12.

**P. Fire Protection water supplies - Records.** Section 507 of the International Fire Code, entitled “Fire Protection Water Supplies,” is amended by adding a new subsection 507.5.3.1:

**Sec. 507.5.3.1. Records.** Records of all system inspections, tests and maintenance required by the referenced standard shall be maintained on the premises for three years; copies shall be delivered to the fire code official within 30 calendar days of each test, inspection, or maintenance of the system.

**Q. Fire protection water supplies - Physical protection.** Section 507 of the International Fire Code, entitled “Fire Protection Water Supplies,” is amended by substituting subsection 507.5.6 as follows with the following:

**Sec. 507.5.6. Physical protection.** Where fire hydrants are subject to impact by a motor vehicle, guard posts shall be designed and installed in accordance with the Kent Design and Construction Standards.
R. Fire protection water supplies – Fire Hydrant. Section 507 of the International Fire Code, entitled "Fire Protection Water Supplies," is amended by adding a new subsection 507.5.7 as follows:

Sec. 507.5.7. Fire hydrant. Fire hydrants shall be designed and installed in accordance with the Kent local water purveyor's design and construction standards.

S. Fire protection water supplies – Backflow prevention. Section 507 of the International Fire Code, entitled "Fire Protection Water Supplies," is amended by adding a new subsection 507.5.8 as follows:

Sec. 507.5.8. Backflow prevention. All private fire systems shall be isolated by an approved method in accordance with the local water purveyor.

T. Fire protection water supplies – Capacity for residential areas. Section 507 of the International Fire Code, entitled "Fire Protection Water Supplies," is amended by adding a new subsection 507.6 as follows:

Sec. 507.6. Capacity for residential areas. All hydrants installed in single family residential areas shall be capable of delivering 1,500 gpm fire-flow over and above average maximum demands at the farthest point of the installation.

U. Fire protection water supplies – Spacing. Section 507 of the International Fire Code, entitled "Fire Protection Water Supplies," is amended by adding a new subsection 507.7 as follows:

Sec. 507.7. Spacing. The spacing of hydrants shall be in accordance with Sections 507.7.1 through 507.7.5.

Sec. 507.7.1. Single family. The maximum fire hydrant spacing serving single family residential areas shall be 600 feet as measured along the fire apparatus access road.

Sec. 507.7.2. Commercial, industrial and multi-family. The maximum fire hydrant spacing serving commercial, industrial, multi-family or other areas
shall be 300 feet as measured along the fire apparatus access road.

Sec. 507.7.3. Medians. Where streets are provided with median dividers which cannot be crossed by firefighters pulling hose lines, hydrants shall be provided on each side of the street and be arranged on an alternating basis, providing, on each side of the street, no more than the maximum spacing.

Sec. 507.7.4. Arterials. Where arterial streets are provided with four or more traffic lanes hydrants shall be provided on each side of the street and be arranged on an alternating basis, providing, on each side of the street, no more than the maximum spacing.

Sec. 507.7.5. Transportation. Where new water mains are extended along streets where hydrants are not needed for protection of structures or similar fire problems, fire hydrants shall be provided at a spacing not to exceed 1,000 feet to provide for transportation hazards.

V. Fire protection water supplies – Required hydrants. Section 507 of the International Fire Code, entitled “Fire Protection Water Supplies,” is amended by adding a new subsection 507.8 as follows:

Sec. 507.8. Required hydrants. The number of hydrants required for a building shall be based on the calculated fire-flow. The first hydrant will be calculated for up to 1,500 gpm. An additional hydrant will be required for every additional 1,000 gpm, or fraction thereof. The required hydrants shall be within 600 feet of the building as measured along the fire apparatus access roads serving the building.

W. Fire protection water supplies – Notification. Section 507 of the International Fire Code, entitled “Fire Protection Water Supplies,” is amended by adding a new subsection 507.9 as follows:

Sec. 507.9 Notification. The owner of property on which private hydrants are located and the public agencies that own or control public hydrants must
provide the fire code official with the following written service notifications in accordance with 507.9.1 and 507.9.2.

Sec. 507.9.1 In-service notification. The fire code official shall be notified when any newly installed hydrant or main is placed into service.

Sec. 507.9.2 Out-of-service notification. Where any hydrant is out of service or has not yet been placed in service, the hydrant shall be identified as being out of service and shall be appropriately marked as out of service, by a method approved by the fire code official.

X. Fire protection water supplies – Building permit requirements.

Section 507 of the International Fire Code, entitled “Fire Protection Water Supplies,” is amended by adding a new subsection 507.10 as follows:

Sec. 507.10. Building permit requirements. No building permit shall be issued until all plans required by this section have been submitted and approved in accordance with the provisions of this section.

No construction beyond the foundation shall be allowed until all hydrants and mains required by this section are in place and approved.

Sec. 13.01.06070. Amendments to the International Fire Code – Chapter 6, Building Services and Systems. The following local amendments to Chapter 6 of the International Fire Code, entitled “Building Services and Systems,” including all amendments enacted by the State of Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. Mechanical Refrigeration – Testing of equipment. Section 606 of the International Fire Code, entitled “Mechanical Refrigeration,” is amended by substituting 606.6 with the following:
Sec. 606.6 Testing of equipment. Refrigeration equipment and systems having a refrigerant circuit more than 220 pounds of Group A1 or 30 pounds of any other group refrigerant shall be subject to periodic testing in accordance with Section 606.6.1. A written record of the required testing shall be maintained on the premises for a minimum of three years; a copy shall be sent to the fire code official within 30 calendar days of the testing; and a label or tag shall be affixed to the individual system identifying the date of the testing. Tests of emergency devices or systems required by this chapter shall be conducted by persons trained and qualified in refrigeration systems.

AB. Commercial Kitchen Hoods - Where required. Section 609 of the International Fire Code, entitled “Commercial Kitchen Hoods,” is amended by adding the following subsections to section 609.2:

Sec. 609.2.1.2 Permit Required. Permits shall be required as set forth in Section 105.6

Sec. 609.2.23. Approved drawing. The stamped and approved cook line drawing shall be displayed adjacent to the suppression system pull station prior to the final inspection. The approved drawing shall be maintained and available for inspection.

C. Commercial Kitchen Hoods - Records. Section 609 of the International Fire Code, entitled “Commercial Kitchen Hoods,” is amended by substituting subsection 609.3.3.3 with the following:

Sec. 609.3.3.3 Records. Records for inspections shall state the individual and company performing the inspection, a description of the inspection, and when the date on which the inspection took place. Records for cleanings shall state the individual and company performing the cleaning and when the date on which the cleaning took place. Such records shall be completed after each inspection or cleaning, and maintained on the premises for a minimum of three years; a copy shall be sent to the fire code official within 30 days of the inspection or cleaning; and a label or tag shall be affixed to the individual system identifying the date of the inspection or cleaning.
Sec. 13.01.0708080. Amendments to the International Fire Code – Chapter 7, Fire-Resistance-Rated Construction. The following local amendments to Chapter 7 of the International Fire Code, entitled “Fire-Resistance-Rated Construction,” including all amendments enacted by the State of Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. Fire-Resistance-Rated Construction - Testing. Section 703 of the International Fire Code, entitled “Fire-Resistance-Rated Construction,” is amended by substituting 703.4 with the following:

Sec. 703.4. Testing. Horizontal, vertical sliding and rolling fire doors shall be inspected and tested annually to confirm proper operation and full closure. A written record shall be maintained on the premises for three years, and a copy shall be delivered to the fire code official within 14-30 calendar days of the inspection or test; and a label or tag shall be affixed to the individual assembly identifying the date of the scheduled confidence test.

Sec. 13.01.0809090. Amendments to the International Fire Code – Chapter 9, Fire Protection Systems. The following local amendments to Chapter 9 of the International Fire Code, entitled “Fire Protection Systems,” including all amendments enacted by the State of Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. Fire protection systems – Scope and application. Section 901 of the International Fire Code, entitled “General,” is amended by substituting subsection 901.1 with the following:

Sec. 901.1. Scope and application. The provisions of this chapter shall apply to all occupancies and buildings, shall specify where fire protection systems are required, and shall apply to the design, installation, inspection, operation, testing, and
maintenance of all fire protection systems; however, nothing contained in this chapter shall diminish or reduce the requirements of any duly adopted building codes, including state and local amendments, or other city ordinances, resolutions, or regulations. In the event of any conflict in requirements among these codes, ordinances, resolutions, or regulations, the more stringent provision shall apply.

B. *Fire Protection Systems - Records.* Section 901 of the International Fire Code, entitled "General," is amended by substituting 901.6.2 with the following:

**Sec. 901.6.2. Records.** Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained on the premises for three years; copies shall be delivered to the fire code official within 30 calendar days of each test, inspection, or maintenance of the system; and a label or tag shall be affixed to the individual system identifying the date of the scheduled confidence test.

BC. *Fire protection systems - Definitions.* Section 902 of the International Fire Code, entitled "Definitions," is amended by adding the following definition to the list into subsection 902.1:

**PROBLEMATIC FIRE PROTECTION SYSTEM.** A fire protection system that generates repeated preventable malfunctions.

C. *Fire Protection Systems - Records.* Section 901 of the International Fire Code, entitled "General," is amended by substituting 901.6.2 with the following:

**Sec. 901.6.2. Records.** Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained on the premises for three years and copies shall be delivered to the fire code official within 30 calendar days of each test, inspection, or maintenance of the system.
D. **Automatic sprinkler systems — General.** Section 903 of the International Fire Code, entitled “Automatic Sprinkler Systems,” is amended by substituting 903.1 with the following:

**Sec. 903.1. General.** Automatic sprinkler systems shall comply with this section and shall be considered a fire alarm system.

**ED. Automatic sprinkler systems — Where required.** Section 903 of the International Fire Code, entitled “Automatic Sprinkler Systems,” is amended by supplementing subsection 903.2 with the following:

**Sec. 903.2. Where required.** Approved automatic fire sprinkler systems shall be installed as follows.

1. In all buildings without adequate fire flow:

   **Exception:** Miscellaneous Group U Occupancies.

2. All new buildings and structures regulated by the International Building Code requiring 2,000 gallons per minute or more fire flow, or with a gross floor area of 10,000 or more square feet (929 m²), or where this code provides a more restrictive floor/fire area requirement, and shall be provided in all locations or where described by this code.

   **Exception:** Spaces or areas in telecommunications buildings used exclusively for telecommunications equipment, associated electrical power distribution equipment, batteries, and standby engines, provided those spaces or areas are equipped throughout with an automatic smoke detection system in accordance with Section 907.2 and are separated from the remainder of the building by not less than 1 hour fire barriers constructed in accordance with Section 707 of the International Building Code or not less than 2 hour horizontal assemblies constructed in accordance with Section 712 of the International Building Code, or both.

3. Where this code requires the installation of an automatic sprinkler system to protect an occupancy within an otherwise non-sprinklered building, then
automatic sprinkler protection will be required throughout the entire building.

4. When the required fire apparatus access roadway grade is 12 percent or greater.

FE. **Automatic sprinkler systems – Speculative use warehouses.** Section 903 of the International Fire Code, entitled “Automatic Sprinkler Systems,” is amended by adding the following new subsection 903.2.9.3:

**Sec. 903.2.9.3. Speculative use warehouses.** Where the occupant, tenant, or use of the building or storage commodity has not been determined or it is otherwise a speculative use warehouse or building, the automatic sprinkler system shall be designed to protect not less than Class IV non-encapsulated commodities on wood pallets, with no solid, slatted, or wire mesh shelving, and with aisles that are 8 feet or more in width and up to 20 feet in height.

GE. **Automatic sprinkler systems – Check valve.** Section 903 of the International Fire Code, entitled “Automatic Sprinkler Systems,” is amended by adding a new subsection 903.3.8 as follows:

**Sec. 903.3.8. Check valve.** All automatic sprinkler system risers shall be equipped with a check valve.

**Exception: NFPA 13-D sprinkler systems.**

H. **Automatic sprinkler systems – Existing buildings.** Section 903 of the International Fire Code, entitled “Automatic Sprinkler Systems,” is amended by substituting subsection 903.6 with the following:

**Sec. 903.6. Existing Buildings.** An approved automatic sprinkler system shall be installed in existing buildings and structures where required in Section 4603-

IG. **Automatic sprinkler systems – Riser room access.** Section 903 of the International Fire Code, entitled “Automatic Sprinkler Systems,” is amended by adding a new subsection 903.7 as follows:
Sec. 903.7. Riser room access. All risers shall be located in a dedicated room with an exterior door, and with lighting and heat for the room.

3H. Fire alarm and detection systems - General. Section 907 of the International Fire Code, entitled "Fire Alarm and Detection Systems," is amended by substituting subsection 907.1.3 with the following:

Sec. 907.1.3. Equipment. Systems and their components shall be listed and approved for the purpose for which they are installed. All new alarm systems shall be addressable. Each device shall have its own address and shall annunciate individual addresses at a UL Central Station.

K. Fire alarm and detection systems - Where required - new buildings and structures. Section 907 of the International Fire Code, entitled "Fire Alarm and Detection Systems," is amended by substituting subsection 907.2 with the following:

Sec. 907.2. Where required - new buildings and structures. An approved fire alarm system installed in accordance with the provisions of this code and NFPA 72 shall be provided in new buildings and structures 7,000 square feet and greater or in accordance with Sections 907.2.1 through 907.2.23 and provide occupant notification in accordance with Section 907.6, unless other requirements are provided by another section of this code.

Exception: Miscellaneous Group U buildings and structures.

A minimum of one manual fire alarm box shall be provided in an approved location to initiate a fire alarm signal for fire alarm systems employing automatic fire detectors or water flow detection devices. Where other sections of this code allow elimination of fire alarm boxes due to sprinklers, a single fire alarm box shall be installed.

Exceptions:
1. The manual fire alarm box is not required for fire alarm systems dedicated to elevator recall control and supervisory service.

2. The manual fire alarm box is not required for Group R-2 occupancies unless required by the fire code official to provide a means for fire watch personnel to initiate an alarm during a sprinkler impairment event. Where provided, the manual fire alarm box shall not be located in an area that is accessible to the public.

L. **Fire alarm and detection systems—Duct smoke detectors.** Section 907 of the International Fire Code, entitled "Fire Alarm and Detection Systems," is amended by substituting the following in subsection 907.4.1:

**Sec. 907.4.1. Duct smoke detectors.** Duct smoke detectors shall be connected to the building's fire alarm control unit when a fire alarm system is provided. Activation of a duct smoke detector shall initiate a visible and audible trouble signal at a constantly attended location. Duct smoke detectors shall not be used as a substitute for required open area detection.

**Exception:** In occupancies not required to be equipped with a fire alarm system, actuation of a duct smoke detector shall activate a visible and audible trouble signal in an approved location. Smoke detector trouble conditions shall activate a visible or audible signal in an approved location and shall be identified as air duct detector trouble.

M1. **Fire alarm and detection systems - Latched alarms.** Section 907 of the International Fire Code, entitled "Fire Alarm and Detection Systems," is amended by adding a new subsection 907.10 as follows:

**Sec. 907.10. Latched alarms.** All signals shall be automatically "latched" at the fire alarm control unit until their operated devices are returned to normal condition, and the control unit is manually reset.
NJ. Fire alarm and detection systems – Resetting. Section 907 of the International Fire Code, entitled “Fire Alarm and Detection Systems,” is amended by adding a new subsection 907.11 as follows:

Sec. 907.11. Resetting. All fire alarm control units shall be reset only by an approved person.

Sec. 907.11.1. Reset code. The reset code for the fire alarm control unit or keypad shall be 3-7-1-2-3-4. The reset code shall not be changed without approval of the fire code official.

OK. Fire alarm and detection systems – Fire alarm control unit location. Section 907 of the International Fire Code, entitled “Fire Alarm and Detection Systems,” is amended by adding a new subsection 907.12 as follows:

Sec. 907.12. Fire alarm control unit location. All fire alarm control units shall be located in the riser room designed and installed in accordance with Section 903.7, or an approved location.

PL. Smoke Control Systems – Written Record. Section 909 of the International Fire Code, entitled “Smoke Control Systems,” is amended by substituting 909.20.2 with the following:

Sec. 909.20.2. Written record. The records shall include the date of the maintenance, identification of the servicing personnel and notification of any unsatisfactory condition and the corrective action taken, including parts replacement. The written record of smoke control system testing and maintenance shall be maintained on the premises for three years and copies shall be delivered to the fire code official within 14–30 calendar days of each test or maintenance of the system; and a label or tag shall be affixed to the individual system identifying the date of the scheduled testing.

QM. Fire Protection Systems – Signs. Section 912 of the International Fire Code, entitled “Fire Department Connections,” is amended by substituting 912.4 with the following:
Sec. 912.4. Signs. Fire department connections shall be clearly identified in an approved manner, to prevent obstruction by parking and other obstructions.

All fire department connections shall have an approved sign attached below the Siamese clapper. The sign shall specify the type of water-based fire protection system, the structure, and the building areas served.

Sec. 13.01.090100. Amendments to the International Fire Code - Chapter 4611, Construction Requirements for Existing Buildings. The following local amendments to Chapter 46-11 of the International Fire Code, entitled “Construction Requirements for Existing Buildings,” including all amendments enacted by the State of Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. Fire Safety Requirements for Existing Buildings - Additions and Alterations. Section 4603-1103 of the International Fire Code, entitled “Fire Safety Requirements for Existing Buildings,” is amended by adding a new subsection 46031103.45.4.3 as follows:

Sec. 46031103.45.43. Substantial Alterations and additions. The provisions of this chapter shall apply to additions and substantial alterations to existing buildings regardless of use when a such addition plus the existing floor area equals 10,000 or greater square feet or substantial alteration occurs in a structure equaling 10,000 or greater square feet. For purposes of this section, a substantial alteration shall be defined as an alteration that costs 50 percent or more of the current assessed value of the structure and impacts more than 50% of the gross floor area.

B. Fire Safety Requirements for Existing Buildings - Fire Alarm Control Unit Replacement. Section 4603–1103 of the International Fire Code, entitled “Fire Safety Requirements for Existing Buildings,” is amended by adding a new subsection 46031103.7.4-8 as follows:
Sec. 46031103.7.48. Fire alarm control unit replacement. If an existing fire alarm control unit is replaced with identical equipment it shall be considered maintenance.

Sec. 13.01.00110. Amendments to the International Fire Code – Chapter 4780, Referenced Standards. The following local amendments to Chapter 47–80 of the International Fire Code, entitled “Referenced Standards,” including all amendments enacted by the State of Washington, are hereby adopted and incorporated into the International Fire Code as follows:

A. Referenced Standards – NFPA. Section NFPA of the International Fire Code, entitled “Reference Standards,” is amended by modifying the Standard reference number dates of publication as follows:

13-130 Installation of Sprinkler Systems
13D-130 Installation of Sprinkler Systems in One- and Two-family Dwellings and Manufactured Homes
13R-130 Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height
20-130 Installation of Stationary Pumps for Fire Protection
24-130 Installation of Private Fire Service Mains and Their Appurtenances
72-13 National Fire Alarm and Signaling Code

110-130 Emergency and Standby Power Systems
111-130 Stored Electrical Energy Emergency and Standby Power Systems
720-12 Installation of Carbon Monoxide (CO) Detection and Warning Equipment

Sec. 13.01.110120. Amendments to the International Fire Code – Appendix B, Fire-Flow Requirements for Buildings. The following local amendments to Appendix B to the International Fire Code,
entitled "Fire-Flow Requirements for Buildings," including all amendments enacted by the State of Washington are hereby adopted and incorporated into the International Fire Code as follows:

A. **Fire-flow requirements for buildings – Increases.** Section B103 of the International Fire Code, entitled "Fire-Flow Requirements for Buildings," is amended by substituting subsection B103.1 with the following:

   **B103.1 Increases.** The fire chief is authorized to increase the fire-flow requirements where exposures could be impacted by fire. An increase shall not be more than twice that required for the building under consideration.

B. **Fire-flow requirements for buildings.** Section B105 of the International Fire Code, entitled "Fire-Flow Requirements for Buildings," is amended by substituting section B105.1 with the following:

   **B105.1 One- and two-family dwellings.** Fire-flow requirements for one- and two-family dwellings shall be in accordance with Sections B105.1.1 through B105.1.3.

   **B105.1.1 Buildings less than 3,600 square feet.** The minimum fire-flow and flow duration requirements for buildings less than 3,600 square feet shall be 1,000 gallons per minute for 1 hour.

   **Exception: A reduction in required fire-flow of 50 percent, as approved, is allowed when the building is equipped with an approved automatic sprinkler system.**

   **B105.1.2 Buildings greater than 3,600 square feet or more.** The minimum fire-flow and flow duration requirements for buildings that are 3,600 square feet or larger shall not be less than that specified in Table B105.1.

   **Exception: A reduction of fire-flow and flow duration to 1,000 gallons per minute for 1 hour, as approved, is**
allowed when the building is equipped with the following:

1. An approved automatic sprinkler system

2. 1-hour fire resistant rated exterior walls tested in accordance with ASTM E 119 or UL 263 with exposure on the exterior side and projections with 1-hour underside protection, fire blocking installed from the wall top plate to the underside of the roof sheathing and no gable vent openings.

Exception: Walls with a distance greater than 11' to the nearest exposure or face an unbuildable lot, tract or buffer. The distance shall be measured at right angles from the face of the wall.

B105.2 Buildings other than one- and two-family dwellings. The minimum fire-flow and flow duration for buildings other than one- and two-family dwellings shall be as specified in Table B105.1.

Exception: A reduction in required fire-flow of 50 percent, as approved, is allowed when the building is provided with an approved automatic sprinkler system. The resulting fire-flow shall not be less than 1,500 gallons per minute for the prescribed duration as specified in Table B105.1.

B105.2.1 Tents and Membrane structures. No fire flow is required for tents and membrane structures.

B105.2.2 Accessory residential Group U buildings. Accessory residential Group U buildings shall comply with the requirements of B105.1.

AB. Fire-flow requirements for buildings—Accessory Group U buildings—Section B105 of the International Fire Code, entitled "Fire-Flow Requirements for Buildings," is amended by adding a new subsection B105.1.1:
**B105.1.1 Accessory Group U buildings.** Section B105.2 will not apply to accessory Group U buildings if all of the following conditions apply:

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1. The residence and accessory Group U building aggregate gross floor area does not exceed 3,600 square feet.

2. The residence meets the fire flow requirements of section B105.1.

3. The residence and accessory Group U building meet the requirements of sections 503.1.1 and 508.1.1.

4. The location of the accessory Group U building is at least 10' from any building and at least 5' from the property line.

**Sec. 13.01.120130. Fire codes – Fees.** The city council shall, by resolution, establish the fees to be assessed to implement and enforce the fire codes adopted in this title.

**Sec. 13.01.130140. Appeals.**

A. *Appeals to the hearing examiner.*

1. *Jurisdiction.* In order to hear and decide appeals of orders, determinations, or decisions made by the fire code official relative to the suitability of alternate materials, designs, and methods of construction, and to provide for reasonable application and interpretation of the provisions of the International Fire Code, the city of Kent hearings examiner is hereby designated as the board of appeals created pursuant to Section 108 of the International Fire Code adopted in KCC 13.01.030 for all matters concerning the application of the fire codes. The city hearings examiner, however, shall have no authority relative to interpretation of the
administrative provisions of these codes, nor shall the city hearings examiner be empowered to waive requirements of these codes.

2. Filing. Appeals shall be filed with the hearings examiner by 5:00 p.m. of the fourteenth calendar day following the date of the order, determination, or decision being appealed. When the last day of the appeal period so computed is a Saturday, Sunday, or federal or city holiday, the period shall run until 5:00 p.m. on the next business day. The appeal shall be accompanied by payment of the filing fee. Specific objections to the fire code official’s decision and the relief sought shall be stated in the written appeal.

3. Standing. Standing to bring an appeal under this chapter is limited to the following persons:
   
   a. The applicant and the owner of property to which the permit decision is directed.
   
   b. Another person aggrieved or adversely affected by the order, determination, or decision, or who would be aggrieved or adversely affected by a reversal or modification of the order, determination, or decision. A person is aggrieved or adversely affected within the meaning of this section only when all of the following conditions are present:
      
      i. The order, determination, or decision has prejudiced or is likely to prejudice that person;
      
      ii. A judgment in favor of that person would substantially eliminate or redress the prejudice to that person caused or likely to be caused by the order, determination, or decision; and
      
      iii. The appellant has exhausted his or her administrative remedies to the extent required by law.

B. Appeals to superior court. Appeals to the hearings examiner shall be made pursuant to Ch. 2.32 KCC. The decision of the hearings examiner shall be final and conclusive unless within twenty-one (21) calendar days of the hearings examiner’s decision an appeal is filed with the superior
court. When the last day of the appeal period so computed is a Saturday, Sunday, or federal or city holiday, the period shall run until the next business day.

**SECTION 2.** - 

If any one or more section, subsections, or sentences of this ordinance are held to be unconstitutional or invalid, such decision shall not affect the validity of the remaining portion of this ordinance and the same shall remain in full force and effect.

**SECTION 3.** - 

Upon approval of the City Attorney, the City Clerk and the code reviser are authorized to make necessary corrections to this ordinance, including the correction of clerical errors; references to other local, state or federal laws, codes, rules, or regulations; or ordinance numbering and section/subsection numbering.

**SECTION 4.** - 

This ordinance shall take effect and be in force thirty (30) days from and after its passage as provided by law. However, code amendments provided for in this ordinance shall not take effect and be applied until July 1, 2013.

ATTEST:

SUZETTE COOKE, MAYOR

RONALD F. MOORE, CITY CLERK

APPROVED AS TO FORM:

International Fire Code—
2012 Update
I hereby certify that this is a true copy of Ordinance No. 4082 passed by the City Council of the City of Kent, Washington, and approved by the Mayor of the City of Kent as hereon indicated.