



# KING COUNTY

1200 King County Courthouse  
516 Third Avenue  
Seattle, WA 98104

## Signature Report

### Ordinance 19485

**Proposed No.** 2021-0346.3

**Sponsors** Dembowski

1 AN ORDINANCE relating to building and construction  
2 standards; amending Ordinance 14111, Section 3, as  
3 amended, and K.C.C. 16.02.100, Ordinance 14111, Section  
4 4, as amended, and K.C.C. 16.02.110, Ordinance 14914,  
5 Section 8, and K.C.C. 16.02.140, Ordinance 14914, Section  
6 9, as amended, and K.C.C. 16.02.150, Ordinance 15802,  
7 Section 5, as amended, and K.C.C. 16.02.152, Ordinance  
8 14914, Section 10, and K.C.C. 16.02.160, Ordinance  
9 12560, Section 55, as amended, and K.C.C. 16.02.170,  
10 Ordinance 14914, Section 16, as amended, and K.C.C.  
11 16.02.200, Ordinance 12560, Section 10, as amended, and  
12 K.C.C. 16.02.240, Ordinance 14914, Section 23, as  
13 amended, and K.C.C. 16.02.250, Ordinance 11622, Section  
14 3, as amended, and K.C.C. 16.02.260, Ordinance 12560,  
15 Section 18, as amended, and K.C.C. 16.02.290, Ordinance  
16 12560, Section 20, as amended, and K.C.C. 16.02.340,  
17 Ordinance 12560, Section 25, as amended, and K.C.C.  
18 16.02.400, Ordinance 12560, Section 26, as amended, and  
19 K.C.C. 16.02.410, Ordinance 14914, Section 55, as  
20 amended, and K.C.C. 16.02.420, Ordinance 14914, Section

Ordinance 19485

---

21 57, as amended, and K.C.C. 16.02.440, Ordinance 12560,  
22 Section 30, as amended, and K.C.C. 16.02.470, Ordinance  
23 14914, Section 78, as amended, and K.C.C. 16.02.550,  
24 Ordinance 14914, Section 81, as amended, and K.C.C.  
25 16.02.570, Ordinance 14914, Section 89, and K.C.C.  
26 16.03.010, Ordinance 14914, Section 90, as amended, and  
27 K.C.C. 16.03.020, Ordinance 3647, Section 3, as amended,  
28 and K.C.C. 16.03.040, Ordinance 11923, Section 1, as  
29 amended, and K.C.C. 16.03.060, Ordinance 12560, Section  
30 43, as amended, and K.C.C. 16.04.250, Ordinance 14914,  
31 Section 133, as amended, and K.C.C. 16.04.260, Ordinance  
32 12560, Section 44, as amended, and K.C.C. 16.04.270,  
33 Ordinance 12560, Section 45, as amended, and K.C.C.  
34 16.04.290, Ordinance 14914, Section 141, and K.C.C.  
35 16.04.300, Ordinance 12560, Section 47, as amended, and  
36 K.C.C. 16.04.310, Ordinance 14111, Section 55, as  
37 amended, and K.C.C. 16.04.330, Ordinance 15802, Section  
38 23, as amended, and K.C.C. 16.04.344, Ordinance 15802,  
39 Section 24, as amended, and K.C.C. 16.04.346, Ordinance  
40 15802, Section 25, as amended, and K.C.C. 16.04.348,  
41 Ordinance 14914, Section 155, as amended, and K.C.C.  
42 16.04.360, Ordinance 14914, Section 156, as amended, and  
43 K.C.C. 16.04.370, Ordinance 14914, Section 157, as

Ordinance 19485

---

44 amended, and K.C.C. 16.04.380, Ordinance 14914, Section  
45 158, as amended, and K.C.C. 16.04.390, Ordinance 14914,  
46 Section 159 and K.C.C. 16.04.400, Ordinance 14914,  
47 Section 163, and K.C.C. 16.04.430 Ordinance 14914,  
48 Section 164 as amended, and K.C.C. 16.04.440, Ordinance  
49 14914, Section 165, and K.C.C. 16.04.450, Ordinance  
50 14914, Section 168, and K.C.C. 16.04.480, Ordinance  
51 12560, Section 54, as amended and K.C.C. 16.04.490,  
52 Ordinance 12560, Section 67, as amended, and K.C.C  
53 16.04.550, Ordinance 12560, Section 68, as amended, and  
54 K.C.C. 16.04.560, Ordinance 12560, Section 74, as  
55 amended, and K.C.C. 16.04.620, Ordinance 12560, Section  
56 89, as amended, and K.C.C. 16.04.770, Ordinance 12560,  
57 Section 97, as amended, and K.C.C. 16.04.850, Ordinance  
58 12380, Section 1, and K.C.C. 16.04.930, Ordinance 12380,  
59 Section 2, and K.C.C. 16.04.940, Ordinance 12380, Section  
60 3, as amended, and K.C.C. 16.04.950, Ordinance 12380,  
61 Section 4, as amended, and K.C.C. 16.04.960, Ordinance  
62 12380, Section 5, as amended, and K.C.C. 16.04.970,  
63 Ordinance 7853, Section 1, as amended, and K.C.C.  
64 16.04.980, Ordinance 14914, Section 272, as amended, and  
65 K.C.C. 16.05.040, Ordinance 15802, Section 78, and  
66 K.C.C. 16.05.065, Ordinance 14914, Section 275, as

Ordinance 19485

---

67 amended, and K.C.C. 16.05.070, Ordinance 14914, Section  
68 276, as amended, and K.C.C. 16.05.080 Ordinance 12560,  
69 Section 74, as amended, and K.C.C. 16.05.130, Ordinance  
70 8766, Section 6, as amended, and K.C.C. 16.08.050,  
71 Ordinance 12560, Section 110, as amended, and K.C.C.  
72 16.14.110, Ordinance 14914, Section 359, and K.C.C.  
73 16.14.200, Ordinance 14914, Section 367, and K.C.C.  
74 16.14.250, Ordinance 12560, Section 124, as amended, and  
75 K.C.C. 16.14.410, Ordinance 12560, Section 121, as  
76 amended, and K.C.C. 16.14.430, Ordinance 14111, Section  
77 141, and K.C.C. 16.14.460, Ordinance 14914, Section 407,  
78 and K.C.C. 16.14.480, Ordinance 14914, Section 408, and  
79 K.C.C. 16.14.490, Ordinance 6746, Section 5, as amended,  
80 and K.C.C. 16.32.030, Ordinance 6746, Section 10, as  
81 amended, and K.C.C. 16.32.080, Ordinance 15802, Section  
82 122, and K.C.C. 16.32.195, Ordinance 15802, Section 123,  
83 and K.C.C. 16.32.205, Ordinance 15802, Section 124, as  
84 amended, and K.C.C. 16.32.215, Ordinance 15802, Section  
85 126, and K.C.C. 16.32.235, Ordinance 15802, Section 128,  
86 and K.C.C. 16.32.255, Ordinance 15802, Section 130, and  
87 K.C.C. 16.32.275, Ordinance 15802, Section 131, as  
88 amended, and K.C.C. 16.32.285, Ordinance 15802, Section  
89 132, and K.C.C. 16.32.295, Ordinance 15802, Section 133,

Ordinance 19485

---

90 and K.C.C. 16.32.306, Ordinance 15802, Section 137, and  
91 K.C.C. 16.32.345, Ordinance 15802, Section 138, and  
92 K.C.C. 16.32.355, Ordinance 2097, Section 1, as amended,  
93 and K.C.C. 17.04.010, Ordinance 12560, Section 148, as  
94 amended, and K.C.C. 17.04.200, Ordinance 2097 (part), as  
95 amended, and K.C.C. 17.04.210, Ordinance 12560, Section  
96 154, as amended, and K.C.C. 17.04.230, Ordinance 17837,  
97 Section 75, and K.C.C. 17.04.295, Ordinance 14915,  
98 Section 25, and K.C.C. 17.04.310, Ordinance 14915,  
99 Section 26, and K.C.C. 17.04.320, Ordinance 14915,  
100 Section 27, and K.C.C. 17.04.330, Ordinance 12560,  
101 Section 165, as amended, and K.C.C. 17.04.380, Ordinance  
102 7980, Section 1, as amended, and K.C.C. 17.04.420,  
103 Ordinance 14915, Section 56, and K.C.C. 17.04.450,  
104 Ordinance 12560, Section 171, as amended, and K.C.C.  
105 17.04.520, Ordinance 14111, Section 215, as amended, and  
106 K.C.C. 17.04.540, Ordinance 12560, Section 174, as  
107 amended, and K.C.C. 17.04.560, Ordinance 14111, Section  
108 211, and K.C.C. 17.04.590, Ordinance 5828, Section 3, and  
109 K.C.C. 17.08.020, Ordinance 5828, Section 4, as amended,  
110 and K.C.C. 17.08.030, Ordinance 19276, Section 9, and  
111 K.C.C. 17.11.060, Ordinance 12196, Section 11, as  
112 amended, and K.C.C. 20.20.040, Ordinance 4461, Section

Ordinance 19485

---

113 2, as amended, and K.C.C. 20.22.040, Ordinance 13129,  
114 Section 6, and K.C.C. 21A.27.060, Ordinance 10870,  
115 Section 523, as amended, and K.C.C. 21A.28.130,  
116 Ordinance 13332, Section 16, as amended, and K.C.C.  
117 27.10.010 and Ordinance 13332, Section 39, as amended,  
118 and K.C.C. 27.10.310, adding new sections to K.C.C.  
119 chapter 16.02, adding new sections to K.C.C. chapter  
120 16.03, adding a new section to K.C.C. chapter 16.14,  
121 adding new sections to K.C.C. chapter 16.32, adding new  
122 sections to K.C.C. chapter 17.04, adding a new chapter to  
123 K.C.C. Title 16 and repealing Ordinance 10608, Section 3,  
124 as amended, and K.C.C. 16.02.130, Ordinance 14914,  
125 Section 13, as amended, and K.C.C. 16.02.180, Ordinance  
126 12560, Section 14, as amended, and K.C.C. 16.02.380,  
127 Ordinance 12560, Section 9, as amended, and K.C.C.  
128 16.02.560, Ordinance 17837, Section 40, and K.C.C.  
129 16.03.165, Ordinance 14914, Section 114, and K.C.C.  
130 16.03.220, Ordinance 15802, Section 21, and K.C.C.  
131 16.04.305, Ordinance 14914, Section 144, as amended, and  
132 K.C.C. 16.04.320, Ordinance 14914, Section 151, as  
133 amended, and K.C.C. 16.04.340, Ordinance 15802, Section  
134 23, and K.C.C. 16.04.342, Ordinance 15802, Section 31, as  
135 amended, and K.C.C. 16.04.455, Ordinance 14914, Section

Ordinance 19485

---

136 167, as amended, and K.C.C. 16.04.470, Ordinance 15802,  
137 Section 33, as amended, and K.C.C. 16.04.472, Ordinance  
138 15802, Section 34 and K.C.C. 16.04.475, Ordinance 15802,  
139 Section 35 and K.C.C. 16.04.478, Ordinance 12560,  
140 Section 56, as amended, and K.C.C. 16.04.500, Ordinance  
141 14914, Section 177, and K.C.C. 16.04.510, Ordinance  
142 15802, Section 36, and K.C.C. 16.04.515, Ordinance  
143 14914, Section 178, as amended, and K.C.C. 16.04.520,  
144 Ordinance 14914, Section 179, and K.C.C. 16.04.530,  
145 Ordinance 14914, Section 185, and K.C.C. 16.04.540,  
146 Ordinance 15802, Section 38, and K.C.C. 16.04.545,  
147 Ordinance 12560, Section 71, as amended, and K.C.C.  
148 16.04.590, Ordinance 12560, Section 76, as amended, and  
149 K.C.C. 16.04.640, Ordinance 12560, Section 77, as  
150 amended, and K.C.C. 16.04.650, Ordinance 12560, Section  
151 78, as amended, and K.C.C. 16.04.660, Ordinance 12560,  
152 Section 79, as amended, and K.C.C. 16.04.670, Ordinance  
153 12560, Section 80, as amended, and K.C.C. 16.04.680,  
154 Ordinance 12560, Section 81, as amended, and K.C.C.  
155 16.04.690, Ordinance 12560, Section 82, as amended, and  
156 K.C.C. 16.04.700, Ordinance 12560, Section 99, as  
157 amended, and K.C.C. 16.04.870, Ordinance 11622, Section  
158 2, as amended, and K.C.C. 16.04.880, Ordinance 3647,

Ordinance 19485

---

159 Section 8, and K.C.C. 16.04.910, Ordinance 14914, Section  
160 269, as amended, and K.C.C. 16.05.010, Ordinance 14914,  
161 Section 270, and K.C.C. 16.05.020, Ordinance 14914,  
162 Section 271, as amended, and K.C.C. 16.05.030, Ordinance  
163 14914, Section 273, as amended, and K.C.C. 16.05.050,  
164 Ordinance 14914, Section 277, as amended, and K.C.C.  
165 16.05.090, Ordinance 15802, Section 84, and K.C.C.  
166 16.05.102, Ordinance 15802, Section 86, and K.C.C.  
167 16.05.104, Ordinance 11797, Section 2, as amended, and  
168 K.C.C. 16.05.106, Ordinance 2910, Section 4 (part), as  
169 amended, and K.C.C. 16.05.108, Ordinance 12560, Section  
170 57, as amended, and K.C.C. 16.05.110, Ordinance 11797,  
171 Section 1, as amended, and K.C.C. 16.05.120, Ordinance  
172 15802, Section 93, as amended, and K.C.C. 16.05.124,  
173 Ordinance 11797, Section 3, as amended, and K.C.C.  
174 16.05.127, Ordinance 14238, Section 18, as amended, and  
175 K.C.C. 16.06.010, Ordinance 14238, Section 19, as  
176 amended, and K.C.C. 16.06.020, Ordinance 14238, Section  
177 21, as amended, and K.C.C. 16.06.030, Ordinance 14914,  
178 Section 288, as amended, and K.C.C. 16.06.031, Ordinance  
179 14914, Section 289, as amended, and K.C.C. 16.06.032,  
180 Ordinance 14914, Section 290, as amended, and K.C.C.  
181 16.06.033, Ordinance 14914, Section 291, as amended, and

Ordinance 19485

---

182 K.C.C. 16.06.034, Ordinance 14914, Section 292, as  
183 amended, and K.C.C. 16.06.035, Ordinance 14914, Section  
184 293, and K.C.C. 16.06.036, Ordinance 14914, Section 294,  
185 and K.C.C. 16.06.037, Ordinance 14914, Section 295, and  
186 K.C.C. 16.06.038, Ordinance 14238, Section 21, as  
187 amended, and K.C.C. 16.06.040, Ordinance 14238, Section  
188 22, as amended, and K.C.C. 16.06.050, Ordinance 14238,  
189 Section 23, as amended, and K.C.C. 16.06.060, Ordinance  
190 14238, Section 24, as amended, and K.C.C. 16.06.070,  
191 Ordinance 14238, Section 25, as amended, and K.C.C.  
192 16.06.080, Ordinance 14111, Section 118, as amended, and  
193 K.C.C. 16.12.010, Ordinance 15802, Section 103, and  
194 K.C.C. 16.12.012, Ordinance 14111, Section 129, and  
195 K.C.C. 16.14.010, Ordinance 14914, Section 340, and  
196 K.C.C. 16.14.070, Ordinance 14914, Section 341, and  
197 K.C.C. 16.14.080, Ordinance 12560, Section 116, as  
198 amended, and K.C.C. 16.14.120, Ordinance 12560, Section  
199 118, as amended, and K.C.C. 16.14.130, Ordinance 14914,  
200 Section 354, and K.C.C. 16.14.160, Ordinance 14914,  
201 Section 355, and K.C.C. 16.14.170, Ordinance 12560,  
202 Section 119, as amended, and K.C.C. 16.14.180, Ordinance  
203 14914, Section 358, and K.C.C. 16.14.190, Ordinance  
204 12560, Section 136, as amended, and K.C.C. 16.14.230,

Ordinance 19485

---

205 Ordinance 12560, Section 137, as amended, and K.C.C.  
206 16.14.240, Ordinance 14914, Section 368, and K.C.C.  
207 16.14.260, Ordinance 14914, Section 369, and K.C.C.  
208 16.14.270, Ordinance 14238, Section 5, as amended, and  
209 K.C.C. 16.14.300, Ordinance 14238, Section 6, as  
210 amended, and K.C.C. 16.14.310, Ordinance 14238, Section  
211 7, as amended, and K.C.C. 16.14.320, Ordinance 15802,  
212 Section 106, as amended, and K.C.C. 16.14.321, Ordinance  
213 14238, Section 8, as amended, and K.C.C. 16.14.330,  
214 Ordinance 14238, Section 9, as amended, and K.C.C.  
215 16.14.340, Ordinance 14238, Section 10, as amended, and  
216 K.C.C. 16.14.350, Ordinance 14238, Section 11, as  
217 amended, and K.C.C. 16.14.360, Ordinance 15802, Section  
218 109, and K.C.C. 16.14.365, Ordinance 15802, Section 110,  
219 and K.C.C. 16.14.366, Ordinance 14238, Section 12, as  
220 amended, and K.C.C. 16.14.370, Ordinance 14238, Section  
221 13, as amended, and K.C.C. 16.14.380, Ordinance 15802,  
222 Section 113, and K.C.C. 16.14.385, Ordinance 14238,  
223 Section 14, as amended, and K.C.C. 16.14.390, Ordinance  
224 14238, Section 15, as amended, and K.C.C. 16.14.400,  
225 Ordinance 14914, Section 396, and K.C.C. 16.14.420,  
226 Ordinance 14914, Section 399, and K.C.C. 16.14.440,  
227 Ordinance 14914, Section 417, and K.C.C. 16.14.560,

Ordinance 19485

---

228 Ordinance 8330, Section 34, as amended, and K.C.C.  
229 16.32.085, Ordinance 6746, Section 19, KCC 16.32.170,  
230 Ordinance 15802, Section 120, and K.C.C. 16.32.175,  
231 Ordinance 15802, Section 121, and K.C.C. 16.32.185,  
232 Ordinance 15802, Section 125, and K.C.C. 16.32.225,  
233 Ordinance 15802, Section 127, and K.C.C. 16.32.245,  
234 Ordinance 15802, Section 129, and K.C.C. 16.32.265,  
235 Ordinance 15802, Section 134, as amended, and K.C.C.  
236 16.32.315, Ordinance 15802, Section 135, and K.C.C.  
237 16.32.326, Ordinance 15802, Section 136, and K.C.C.  
238 16.32.335, Ordinance 12560, Section 151, as amended, and  
239 K.C.C. 17.04.270, Ordinance 12560, Section 150, as  
240 amended, and K.C.C. 17.04.300, Ordinance 12560, Section  
241 158, as amended, and K.C.C. 17.04.340, Ordinance 12560,  
242 Section 159, as amended, and K.C.C. 17.04.350, Ordinance  
243 12560, Section 162, as amended, and K.C.C. 17.04.360,  
244 Ordinance 14111, Section 201, as amended, and K.C.C.  
245 17.04.430, Ordinance 12560, Section 170, as amended, and  
246 K.C.C. 17.04.440, Ordinance 14111, Section 202, as  
247 amended, and K.C.C. 17.04.460, Ordinance 14111, Section  
248 203, as amended, and K.C.C. 17.04.470, Ordinance 14111,  
249 Section 205, as amended, and K.C.C. 17.04.480, Ordinance  
250 14111, Section 213, as amended, and K.C.C. 17.04.490,

Ordinance 19485

---

251 Ordinance 14111, Section 206, as amended, and K.C.C.  
252 17.04.500, Ordinance 14111, Section 210, as amended, and  
253 K.C.C. 17.04.510, Ordinance 15803, Section 26, as  
254 amended, and K.C.C. 17.04.522, Ordinance 6328, Section  
255 4, as amended, and K.C.C. 17.04.530, Ordinance 14915,  
256 Section 79, as amended, and K.C.C. 17.04.550, Ordinance  
257 17837, Section 82, and K.C.C. 17.04.565, Ordinance  
258 14111, Section 220, as amended, and K.C.C. 17.04.570,  
259 Ordinance 12560, Section 175, as amended, and K.C.C.  
260 17.04.580, Ordinance 15803, Section 8, as amended, and  
261 K.C.C. 17.04.583, Ordinance 14238, Section 29, as  
262 amended, and K.C.C. 17.04.600, Ordinance 14238, Section  
263 30, as amended, and K.C.C. 17.04.610, Ordinance 14238,  
264 Section 31, as amended, and K.C.C. 17.04.620, Ordinance  
265 8726, Section 1, as amended, and K.C.C. 17.04.630,  
266 Ordinance 5828, Section 2, and K.C.C. 17.08.010,  
267 Ordinance 5828, Section 5, as amended, and K.C.C.  
268 17.08.040, Ordinance 5828, Section 6, and K.C.C.  
269 17.08.050, Ordinance 5828, Section 7, and K.C.C.  
270 17.08.060, Ordinance 5828, Section 8, and K.C.C.  
271 17.08.070, Ordinance 5828, Section 9, and K.C.C.  
272 17.08.080, Ordinance 3087, Section 10, and K.C.C.  
273 17.08.110, Ordinance 3087, Section 11, and K.C.C.

Ordinance 19485

---

274 17.08.120, Ordinance 5828, Section 14, and K.C.C.

275 17.08.150 and Ordinance 7080, Section 2, and K.C.C.

276 17.08.160.

277 BE IT ORDAINED BY THE COUNCIL OF KING COUNTY:

278 SECTION 1. Ordinance 14111, Section 3, as amended, and K.C.C. 16.02.100 are

279 hereby amended to read as follows:

280 This chapter applies to the chapters in this title regarding the International  
281 Building Code (K.C.C. chapter 16.04), the International Residential Code (K.C.C.  
282 chapter 16.05), the International Energy Conservation Code (K.C.C. chapter 16.XX (the  
283 new chapter established by section 68 of this ordinance), the International Mechanical  
284 Code, the International Existing Building Code, the International Property Maintenance  
285 Code (K.C.C. chapter 16.14), the ((International Mechanical Code (K.C.C. chapter  
286 16.12)) Uniform Plumbing Code (K.C.C. chapter 16.32) and the King County Building  
287 Security Code (K.C.C. chapter 16.10).

288 SECTION 2. Ordinance 14111, Section 4, as amended, and K.C.C. 16.02.110 are

289 hereby amended to read as follows:

290 A. The ((~~International Building Code, 2012 Edition, with Appendix C and E, as~~  
291 ~~amended in chapter 51-50 WAC, Appendix Z, as adopted by this title, and the~~  
292 ~~International Residential Code for One and Two Family Dwellings 2012 Edition, with~~  
293 ~~Appendix G, H and K, 2012 Edition, as amended in chapter 51-51 WAC, as)) following  
294 codes published by or jointly with the International Code Council, Inc., together with  
295 amendments, additions, exceptions and deletions adopted in this ((~~chapter~~)) title by  
296 reference, together with the State Building Code Act, chapter 19.27 RCW, which are~~

Ordinance 19485

---

297 referred to in this title as "the International codes" and with King County modifications  
298 that are adopted and codified in this chapter, are adopted as the King County building  
299 codes and may be cited as such and are referred to in this chapter as "this code((-))":

300 1. The International Building Code, 2018 Edition, effective February 1, 2021,  
301 together with Appendix C (Group U – Agricultural buildings), as amended in chapter 51-  
302 50 WAC, and Appendix Z (Seattle-Tacoma sound reduction standards), as adopted by  
303 this title, and referred to in this title as "the International Building Code" or, when used in  
304 a citation, "IBC";

305 2. The International Residential Code, 2018 edition, effective February 1, 2021,  
306 except for Chapter 11 and Chapters 25 through 43, together with Appendices F (Radon  
307 control methods), H (Patio covers), K (Sound transmission) and T [RE] (Solar-ready  
308 provisions-detached one- and two-family dwellings and townhouses), as amended in  
309 chapter 51-51 WAC, and referred to in this title as the "International Residential Code"  
310 or, when used in a citation, "IRC";

311 3. The International Energy Conservation Code, Commercial, 2018 edition,  
312 effective February 1, 2021, together with Appendices A (Default heat loss coefficients),  
313 B (Default internal load values and schedules), C (Exterior design conditions) and D  
314 (Calculation of HVAC total system performance ratio), as amended in chapter 51-11C  
315 WAC; and the International Energy Conservation Code, Residential, 2018 edition,  
316 effective February 1, 2021, together with Appendices A (Default heat loss coefficients),  
317 B (Optional energy efficiency measures) and C (Exterior design conditions), as amended  
318 in chapter 51-11R WAC, and referred to in this title as the "International Energy  
319 Conservation Code" or, when used in a citation, "IECC";

---

Ordinance 19485

---

320           4. The International Mechanical Code, 2018 Edition, effective February 1, 2021,  
321 together with Appendix A (Chimney connector pass-through), as amended in chapter 51-  
322 52 WAC, and hereinafter referred to as the "International Mechanical Code" or, when  
323 used in a citation, "IMC";

324           5. The International Existing Building Code, 2018 Edition, effective February 1,  
325 2021, with Appendix A (Guidelines for the Seismic Retrofit of Existing Buildings), as  
326 amended in chapter WAC 51-50, and referred to in this title as the "International Existing  
327 Building Code" or, when used in a citation, "IEBC"; and

328           6. The International Property Maintenance Code, 2018 Edition, effective  
329 February 1, 2021, and referred to in this title as the "International Property Maintenance  
330 Code" or, when used in a citation, "IPMC."

331           B. This code also may be further clarified and implemented with administrative  
332 rules adopted in accordance with K.C.C. chapter 2.98.

333           SECTION 3. Ordinance 14914, Section 8, and K.C.C. 16.02.140 are hereby  
334 amended to read as follows:

335           Chapter 1 of the International Residential Code (~~for One and Two Family~~  
336 ~~Dwellings~~) is not adopted and Chapter 1 of the International Building Code as amended  
337 and supplemented in this chapter is substituted.

338           NEW SECTION. SECTION 4. There is hereby added to K.C.C. chapter 16.02 a  
339 new section to read as follows:

340           Chapter 1 of the International Energy Conservation Code is not adopted and  
341 Chapter 1 of the International Building Code as amended and supplemented in this  
342 chapter is substituted.

---

Ordinance 19485

---

343           **EXCEPTIONS:**

- 344           A. Mixed residential and commercial buildings (IECC C101.4.1);
- 345           B. Compliance (IECC C101.5);
- 346           C. Building documentation and close-out submittal requirements (IECC C103.6);
- 347           D. Record documents (IECC C103.6.1);
- 348           E. Building operations and maintenance information (IECC C103.6.2);
- 349           F. Manuals (IECC C103.6.2.1);
- 350           G. Compliance documentation (IECC C103.6.3);
- 351           H. Systems operation training (IECC C103.6.4); and
- 352           I. International Energy Conservation Code Sections as amended and
- 353 supplemented in this title.

354           NEW SECTION. SECTION 5. There is hereby added to K.C.C. chapter 16.02 a  
355 new section to read as follows:

356           Chapter 1 of the International Existing Building Code is not adopted and Chapter  
357 1 of the International Building Code as amended and supplemented in this chapter is  
358 substituted.

359           SECTION 6. Ordinance 14914, Section 9, as amended, and K.C.C. 16.02.150 are  
360 hereby amended to read as follows:

361           Section 101.1 of the International Building Code is not adopted and the following  
362 is substituted:

363           These regulations shall be known as the Building Codes of King County. These  
364 codes are the International Building Code (IBC), the International Residential Code (~~for~~  
365 ~~One and Two Family Dwellings~~)) (IRC) (~~and~~), the International Energy Conservation

---

Ordinance 19485

---

366 Code (IECC), the International Mechanical Code (IMC), the International Existing  
367 Building Code (IEBC), the International Property Maintenance Code (IPMC), the  
368 Uniform Plumbing Code, the King County Building Security Code (K.C.C. chapter  
369 16.10) and the International Fire Code (IFC), as adopted in K.C.C. Title 17.

370 SECTION 7. Ordinance 15802, Section 5, as amended, and K.C.C. 16.02.152 are  
371 hereby amended to read as follows:

372 Section 101.2 of the International Building Code is not adopted and the following  
373 is substituted:

374 ~~((Scope (IBC 101.2).))~~ **Scope (IBC 101.2).** The provisions of this code shall  
375 apply to the construction, alteration, movement, enlargement, replacement, repair,  
376 equipment, use and occupancy, location, maintenance, removal and demolition of every  
377 building or structure or any appurtenances connected or attached to such buildings or  
378 structures.

379 **EXCEPTIONS:**

380 1. The provisions of the International Residential Code ~~((for One and Two-~~  
381 ~~Family Dwellings))~~ shall apply to the following:

382 1.1 ~~((†))~~The construction, alteration, movement, enlargement, replacement,  
383 repair, equipment, use and occupancy, location, removal and demolition of detached one-  
384 and two-family dwellings and ~~((multiple single family dwellings-))~~ townhouses ~~((†))~~, not  
385 more than three stories in height above grade plane with a separate means of egress and  
386 their accessory structures, including adult family homes, foster family care homes and  
387 family day care homes licensed by the Washington state ~~((‡))~~Department of ~~((§))~~Social  
388 and ~~((‡))~~Health ~~((§))~~Services.

Ordinance 19485

---

389            1.2. ((The provisions of the International Residential Code for One and Two-  
390 Family Dwellings shall apply to d)) Detached residential accessory structures that are  
391 used for home occupations ~~((and))~~ or home industries that include offices, mercantile,  
392 food preparation for off-site consumption, personal care salons and similar uses, if the  
393 home occupation or home industry is subordinate to the primary residential use of the site  
394 and the total cumulative floor area devoted to the home occupation or home industry in  
395 ~~((any))~~ each detached accessory structure on-site is less than or equal to 500 square feet  
396 ~~((46.4m<sup>2</sup>))~~ 46.5m<sup>2</sup>.

397            1.3. Live/work units located in townhouses and complying with the  
398 requirements of IBC 419. Fire suppression required by IBC 419.5 when constructed  
399 under the International Residential Code shall conform to Appendix U - Dwelling unit  
400 fire sprinkler systems, as adopted in chapter 51-51 WAC.

401            1.4. Owner-occupied lodging houses with one or two guestrooms.

402            1.5. Owner-occupied lodging houses with three to five guestrooms where  
403 equipped with a fire sprinkler system in accordance with Appendix U - Dwelling unit fire  
404 sprinkler systems, as adopted in chapter 51-51 WAC.

405            ~~((3.))~~ 2. The provisions of the International Mechanical Code shall regulate the  
406 design, installation, maintenance, alteration and inspection of mechanical systems that are  
407 permanently installed and ~~((utilized))~~ used to provide control of the environmental  
408 conditions and related processes within buildings. This code shall also regulate those  
409 mechanical systems, system components, equipment and appliances specifically  
410 addressed ~~((herein))~~ in this section. The installation of fuel gas distribution piping and

Ordinance 19485

---

411 equipment, fuel gas-fired appliances and fuel gas-fired appliance venting systems shall be  
412 regulated by the International Fuel Gas Code and WAC 51-52-0101.

413 NEW SECTION. SECTION 8. There is hereby added to K.C.C. chapter 16.02 a  
414 new section to read as follows:

415 Section 101.4.1 of the International Building Code is not adopted.

416 NEW SECTION. SECTION 9. There is hereby added to K.C.C. chapter 16.02 a  
417 new section to read as follows:

418 Section 101.4.3 of the International Building Code is not adopted.

419 SECTION 10. Ordinance 14914, Section 10, and K.C.C. 16.02.160 are hereby  
420 amended to read as follows:

421 Section 102.4 of the International Building Code is not adopted and the following  
422 is substituted:

423 **Referenced Codes and Standards (IBC 102.4).** The codes and standards  
424 referenced in this code shall be considered part of the requirements of this code to the  
425 prescribed extent of each such reference and as further regulated in IBC 102.4.1 and  
426 102.4.2. Where differences occur between provisions of this code and referenced code  
427 and standards, the provisions of this code shall apply.

428 **EXCEPTION:** Where enforcement of a code provision would violate the  
429 conditions of the listing of the equipment or appliance, the conditions of the listing and  
430 manufacturer's instructions shall apply.

431 SECTION 11. Ordinance 12560, Section 55, as amended, and K.C.C. 16.02.170  
432 are hereby amended to read as follows:

Ordinance 19485

---

433 Section 102 of the International Building Code is supplemented with the  
434 following:

435 **Moved buildings (~~and temporary buildings~~) (IBC (~~102.7.2~~) 102.6.3).**

436 1. Buildings or structures moved into or within the jurisdiction shall comply with  
437 the provisions for new buildings or structures of the International Building Code, chapter  
438 51-50 WAC, the International Residential Code (~~for One and Two Family Dwellings~~),  
439 chapter 51-51 WAC, the International Mechanical Code, chapter 51-52 WAC, the  
440 International Fire Code, chapter 51-54A WAC, the Uniform Plumbing Code and  
441 Standards, chapter 51-56 WAC, the International Energy Conservation Code,  
442 Commercial, chapter 51-11C WAC and the International Energy Conservation Code,  
443 Residential, chapter 51-11R WAC.

444 **EXCEPTION:** (~~Group R3~~) Detached one- and two-family dwellings, buildings  
445 or structures are not required to comply if:

446 1.1. The original occupancy classification is not changed, and

447 1.2. The original building is not substantially remodeled or rehabilitated. For  
448 the purposes of this section a building shall be considered to be substantially remodeled  
449 when the costs of remodeling exceed (~~60~~) 50 percent of the value of the building  
450 exclusive of the costs relating to preparation, construction, demolition or renovation of  
451 foundations.

452 No person shall move within or into the unincorporated areas of King County, or  
453 cause to be moved, any building or structure without first obtaining, in addition to the  
454 building permit, a relocation investigation permit from the building official. The purpose  
455 of this relocation investigation permit is to determine (~~prior to~~), before relocation, the

---

Ordinance 19485

---

456 deficiencies in the building. Before a structure is relocated to a proposed site, a building  
457 permit shall be obtained.

458           2. The building official shall not approve for moving nor issue a building permit  
459 for a building or structure which constitutes a public nuisance or endangers the public  
460 health, safety((;)) or general welfare, and in the building official's opinion it is physically  
461 impractical to restore such building or structure to make it comply with this code.

462           3. A fee shall be charged for relocation investigations and site inspection  
463 services. A building permit fee shall also be charged for all structures which are  
464 approved for relocation. Fees for permits and services provided under this section shall  
465 be paid to the department of local services, permitting division, ((as set forth)) in  
466 accordance with K.C.C. Title 27, ((Building and Constructions)) Development Permit  
467 Fees. ((As a condition of securing the building permit, the owner of the building or  
468 structure shall deposit cash or its equivalent with the building official, or in an approved  
469 irrevocable escrow, in an amount up to \$5000.00.))

470           4. Relocation investigation fees do not apply to structures having acceptable  
471 current inspections, such as factory-built units.

472           ((4.1 If the building official denies a building permit for the relocation of a  
473 structure, the applicant may request, within 10 days of the date of mailing or other  
474 issuance of the denial notice, that building official refer the building permit application to  
475 the building code advisory board. The advisory board shall review the application and  
476 make a recommendation to the building official, who may reconsider the denial in light  
477 of the advisory board's recommendation.))

Ordinance 19485

---

478            SECTION 12. Ordinance 14914, Section 16, as amended, and K.C.C. 16.02.200  
479 are hereby amended to read as follows:

480            Section 104.3 of the International Building Code is not adopted and the following  
481 is substituted:

482            **Notice and orders (IBC 104.3).** ~~((The right of entry))~~ Notices and orders shall  
483 be in accordance with the procedures specified in K.C.C. Title 23.

484            SECTION 13. Ordinance 12560, Section 10, as amended, and K.C.C. 16.02.240  
485 are hereby amended to read as follows:

486            Section 105.2 of the International Building Code is not adopted and the following  
487 is substituted:

488            **Work exempt from permit (IBC 105.2).** A building permit shall not be required  
489 for the following:

490            Building:

491            1. One-story detached one- and ~~((two-family))~~ two-family residential accessory  
492 buildings used as tool and storage sheds, playhouses, ~~((tree-supported))~~ tree-supported  
493 structures used for play and similar uses, not including garages or other buildings used  
494 for vehicular storage, ~~((provided))~~ if:

495            1.1 ~~((€))~~ The floor area does not exceed 200 square feet ~~((11.15 m2))~~ provided  
496 ~~that the roof overhang))~~ (18.6 m2);

497            1.2 The roof eave does not project closer than three feet to any portion of an  
498 adjacent building and does not exceed twenty-four inches measured horizontally from the  
499 exterior wall; and

500            1.3 The building is separated a minimum of five feet from all other buildings.

Ordinance 19485

---

501           2. One-story detached commercial agricultural and forestry accessory buildings  
502 used as animal shelters or (~~sheds~~) for the storage of tools, animal feed, animal bedding,  
503 seeds, seedlings or similar materials or products, not including office, sleeping or resting  
504 quarters(~~;~~) for human occupation or garages (~~(or buildings used for vehicle storage,~~  
505 ~~provided)~~), if:

506           2.1. ((~~†~~)The floor area does not exceed ((~~200~~) 400 square feet (((~~11.15~~)) 37.2  
507 m<sup>2</sup>) ((~~provided that the roof overhang~~));

508           2.2. The roof eave does not project closer than three feet to any portion of an  
509 adjacent building and does not exceed twenty-four inches measured horizontally from the  
510 exterior wall;

511           2.3. The building is separated a minimum of five feet from other buildings;  
512 and

513           2.4. The building does not have an installed heating system and is not connected  
514 to water, sanitary sewer or septic service.

515           3. Fences not over 6 feet (~~((1.829 m))~~) 1.8 m high.

516           4. Retaining walls that are not over 4 feet (~~((1.219 m))~~) 1.2 m in height measured  
517 from the bottom of the footing to the top of the wall, unless supporting a surcharge or  
518 impounding Class I, II or (~~(H-A))~~) IIIA liquids.

519           5. Water tanks supported directly upon grade if the capacity does not exceed  
520 5,000 gallons (18,927 l) and the ratio of height to diameter or width does not exceed 2 to  
521 1.

Ordinance 19485

---

- 522           6. Sidewalks, decks and driveways not more than 30 inches (~~((762 m))~~) 762 mm  
523 above grade and not over any basement or story below and that are not part of an  
524 accessible route.
- 525           7. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish  
526 work.
- 527           8. Temporary motion picture, television and theater stage sets and scenery.
- 528           9. Prefabricated swimming pools accessory to a (~~(Group R, Division 3~~  
529 ~~Occupancy~~) detached one- or two-family dwelling as applicable in (~~(Section))~~ IBC  
530 101.2, that are installed entirely above ground and are either less than 24 inches (610  
531 mm) deep and do not exceed 5,000 gallons (18,925 l) or are installed for temporary use of  
532 less than three months in a twelve month period.
- 533           10. (~~(Shade cloth structures constructed for nursery or agricultural purposes, and~~  
534 ~~not including service systems)) Temporary growing structures and temporary worker  
535 housing as exempted by WAC 51-50-007.~~
- 536           11. Swings and other playground equipment.
- 537           12. Window awnings for detached one- and two-family dwellings supported by  
538 an exterior wall that do not project more than 54 inches (1,372 mm) from the exterior  
539 wall and do not require additional support (~~(of Group R3, as applicable in Section 101.2,~~  
540 ~~and Group U Occupancies))~~).
- 541           13. Moveable cases, counters and partitions not over 5 feet 9 inches (~~((228.6 m))~~)  
542 1.75m) high.
- 543           14. (~~(Re-roofing))~~ Reroofing of existing one- and two-family residential  
544 buildings.
-

Ordinance 19485

---

545           **EXCEPTION:** When replacement roofing adds more than 5 pounds per square  
546 foot cumulative dead load to the weight of the original roofing a permit shall be required.

547           15. Submerged, freestanding mechanical boat lifts associated with single-family  
548 residential piers and recreational watercraft not exceeding 25 feet (7.6 m) in length or 15  
549 feet (4.6 m) in width with no portion exceeding a height of 10 feet (3.0 m) above the  
550 ordinary high water mark as defined in K.C.C. 21A.06.825.

551           16. Work located primarily in a public way, public utility towers and poles.

552           17. Mechanical equipment not specifically regulated in this code.

553           18. Antenna and dishes that fall under FCC Antenna Rule 47 C.F.R including  
554 masts under twelve feet above the roof line and dishes up to one meter in diameter.

555           19. Roof-mounted (~~((photo-voltaic))~~) photovoltaic solar panels (~~((from))~~) for one-  
556 and ((two-family)) two-family dwellings that have a total dead load not exceeding  
557 ~~((three))~~ four pounds per square foot and are (~~((mounted))~~) no more than 18 inches (457  
558 mm) above the roof or highest roof point on which they are mounted.

559           20. (~~((Ground-mounted))~~) Ground-mounted wind turbines for one- and (~~((two~~  
560 ~~family))~~ two-family dwellings for which any portion of the unit does not exceed twelve  
561 feet (3.7 m) in height.

562           Gas:

563           1. Portable heating or cooking appliances.

564           2. Replacement of any minor part that does not alter approval of equipment or  
565 make such equipment unsafe.

566           Mechanical:

567           1. Portable heating or clothes drying appliances.

---

Ordinance 19485

---

- 568           2. Portable ventilation appliances and equipment.
- 569           3. Portable cooling unit.
- 570           4. Steam, hot or chilled water piping within any heating or cooling equipment
- 571 regulated by this code.
- 572           5. Replacement of any part that does not alter its approval or make it unsafe.
- 573           6. Portable evaporative cooler.
- 574           7. Self-contained refrigeration system containing 10 pounds (4.54 kg) or less of
- 575 refrigerant and actuated by motors of one horsepower (746 W) or less.
- 576           8. Portable fuel cell appliances that are not connected to a fixed piping system
- 577 and are not interconnected to a power grid.

578           ~~((Unless otherwise exempted,))~~ Exempted items shall still be subject to separate

579 plumbing, electrical and mechanical permits ~~((will be required for the above-exempted~~

580 ~~items))~~.

581           Exemption from the permit requirements of this code shall not be deemed to grant

582 authorization for any work to be done in any manner in violation of the provisions of this

583 code or any other laws or ordinances of this jurisdiction.

584           SECTION 14. Ordinance 14914, Section 23, as amended, and K.C.C. 16.02.250

585 are hereby amended to read as follows:

586           Section 105.2.~~((3))~~2 of the International Building Code is not adopted.

587           SECTION 15. Ordinance 11622, Section 3, as amended, and K.C.C. 16.02.260

588 are hereby amended to read as follows:

589           Section 105.3 of the International Building Code is not adopted and the following

590 is substituted:

591           **Application for permit - Complete applications (IBC 105.3).**

592           ~~((A-))~~ 1. For the purposes of determining the application of time periods and  
593 procedures adopted by K.C.C. Title 20, applications for permits authorized by K.C.C.  
594 chapter 16.04 shall be considered complete as of the date of submittal upon determination  
595 by the department that the materials submitted contain the following, in addition to the  
596 complete application requirements of K.C.C. 20.20.040. Every application shall:

597           1.1. Identify and describe the work to be covered by the permit for which  
598 application is made.

599           1.2. Indicate the use or occupancy of which the proposed work is intended.

600           1.3. Be accompanied by plans, diagrams, computations and specifications and  
601 other data as required in IBC (~~(Section 106.1)~~) 107.

602           1.4. State the valuation of any new building or structure or any addition,  
603 remodeling or alteration to an existing building.

604           1.5. Give such other data and information as may be required by the building  
605 official.

606           1.6. Identify on the site plan (~~(of)~~) all easements, deed restrictions(~~(s)~~) or other  
607 encumbrances restricting the use of the property, and provide details as required in IBC  
608 107.2.6 and as otherwise required by the building official.

609           SECTION 16. Ordinance 12560, Section 18, as amended, and K.C.C. 16.02.290  
610 are hereby amended to read as follows:

611           Section 105.5 of the International Building Code is not adopted and the following  
612 is substituted:

Ordinance 19485

---

613           **Expiration (IBC 105.5).** Every permit approved by the building official under  
 614 ~~((the provisions of))~~ the ~~((€))~~ code shall expire by limitation and become null and void  
 615 ~~((one))~~ two years from the date of its issue.

616           **EXCEPTION:** Building permits issued by the building official to correct a code  
 617 violation, or mechanical permits issued independent of a building permit, shall expire by  
 618 limitation and become null and void one year from the date of its issue.

619           Issued permits may be extended for ~~((one-year))~~ one-year periods subject to the  
 620 following conditions:

621           1. An application for a permit extension together with the applicable fee is  
 622 submitted to the department at least ~~((seven-))~~7~~((-))~~, but no more than ~~((sixty-))~~60~~((-))~~,  
 623 calendar days ~~((prior to))~~ before the date the original permit becomes null and void.  
 624 Once the permit extension application is submitted and if that extension is not denied,  
 625 work may continue past the expiration date of the original permit~~((, provided that the~~  
 626 ~~extension application is not denied))~~. If the extension application is denied, all work  
 627 must stop until a valid permit is obtained.

628           2. The permit shall not be extended ~~((€))~~if:

629           2.1. ~~((€))~~Construction of a building or structure has not substantially  
 630 ~~((commenced))~~ begun, as determined by the building official, within two years from the  
 631 date of the first issued permit; and

632           2.2. ~~((€))~~The building ~~((and))~~ or the structure, or its intended use, is no longer  
 633 authorized by the zoning code or other applicable law~~((, then the permit shall not be~~  
 634 ~~extended))~~.

Ordinance 19485

---

635 3. An applicant may request a total of two permit extensions (~~(provided)~~) if there  
636 are no substantial changes in the approved plans and specifications.

637 4. The building official may extend a building permit beyond the second  
638 extension only to allow completion of a building, structure or mechanical system  
639 authorized by the original permit and substantially constructed. If substantial work, as  
640 determined by the building official, has not (~~(commenced)~~) begun on a building, (~~and/~~  
641 ~~or~~) structure or mechanical system authorized in the original permit, then a new permit  
642 (~~(will)~~) shall be required for construction to proceed.

643 5. The staff of the department may revise a permit at the permittee's request but  
644 such a revision does not constitute a renewal or otherwise extend the life of the permit.

645 SECTION 17. Ordinance 12560, Section 20, as amended, and K.C.C. 16.02.340  
646 are hereby amended to read as follows:

647 Section 107.3.3 of the International Building Code is not adopted and the  
648 following is substituted:

649 **Pre-issuance construction authorization (PICA) - Permission to proceed (IBC**  
650 ~~((106.3.3))~~ **107.3.3**). If the applicant for a permit or approval required by this code  
651 desires to (~~(commence)~~) begin work before obtaining the required permit or approval, the  
652 building official(~~(;)~~) may allow the applicant to proceed if:

653 1. The building official determines that the work would not endanger or harm the  
654 property; (~~and if~~)

655 2. The building official determines that allowing the work to proceed would not  
656 violate the requirements of the state environmental policy act; and (~~(if)~~)

Ordinance 19485

---

657 3. The applicant first deposits cash or its equivalent with the building official, or  
658 in an irrevocable escrow approved by the building official, in an amount determined by  
659 the building official to be sufficient to restore the building and site, and to perform the  
660 corrective work described ~~((below))~~ in K.C.C. 16.02.350.

661 SECTION 18. Ordinance 12560, Section 25, as amended, and K.C.C. 16.02.400  
662 are hereby amended to read as follows:

663 Section ~~((108 and all subsections thereto))~~ 109 of the International Building Code  
664 ~~((are))~~ is not adopted and the following is substituted:

665 **Fees (IBC ~~((108))~~ 109).** Fees shall be assessed according to K.C.C. Title 27.

666 SECTION 19. Ordinance 12560, Section 26, as amended, and K.C.C. 16.02.410  
667 are hereby amended to read as follows:

668 Section 110.1 of the International Building Code is supplemented with the  
669 following:

670 **Inspection record card (IBC 110.1.1).** Work requiring a permit shall not ~~((be~~  
671 ~~commenced))~~ begin until the permit holder or an agent of the permit holder ~~((shall have~~  
672 ~~posted))~~ posts or otherwise ~~((made))~~ makes available an inspection record card in a  
673 conspicuous place on the premises ~~((and in a position))~~ such as to allow the building  
674 official to conveniently make ~~((the required))~~ entries ~~((thereon))~~ regarding inspection of  
675 the work. This card shall be ~~((maintained))~~ available ~~((in such a position by the permit~~  
676 ~~holder))~~ until the Certificate of Occupancy has been issued. ~~((For R-3 and U occupancies~~  
677 ~~and structures built under the International Residential Code for One and Two Family~~  
678 ~~Dwellings, this card shall serve as the certificate of occupancy. If more than two units~~  
679 ~~are located on the same lot, the Certificate of Occupancy shall be used. The))~~ A validated

---

Ordinance 19485

---

680 hard copy of the building permit application (~~((given to the applicant))~~) at the time of  
681 ~~((the))~~ permit issuance shall serve as the inspection record card. This validated hard copy  
682 of the building permit application shall thereafter be referred to as the building permit.

683 SECTION 20. Ordinance 14914, Section 55, as amended, and K.C.C. 16.02.420  
684 are hereby amended to read as follows:

685 Section 110.3.3 of the International Building Code is not adopted and the  
686 following is substituted:

687 **Lowest floor elevation (IBC 110.3.3).** In flood hazard areas, upon placement of  
688 the lowest floor, including the basement, and ~~((prior to))~~ before further vertical  
689 construction, the elevation ~~((certification))~~ certificate required in ~~((section 1612.5))~~ IBC  
690 1612.4 and in K.C.C. chapter 21A.24 shall be submitted to the building official.

691 SECTION 21. Ordinance 14914, Section 57, as amended, and K.C.C. 16.02.440  
692 are hereby amended to read as follows:

693 Section ~~((110.3.7))~~ 110.3.8 of the International Building Code is not adopted and  
694 the following is substituted:

695 **Energy efficiency inspections (IBC ~~((110.3.7))~~ 110.3.8).** Energy efficiency  
696 inspections shall be in accordance with the International Energy Conservation Code, as  
697 adopted and amended by chapters 51-11C and 51-11R WAC, and as amended in this title.

698 SECTION 22. Ordinance 12560, Section 30, as amended, and K.C.C. 16.02.470  
699 are hereby amended to read as follows:

700 Section 111.2 of the International Building Code is not adopted and the following  
701 is substituted:

Ordinance 19485

---

702           **Certificates issued (IBC 111.2).** The building official may issue either a  
703 certificate of occupancy or a certificate of shell completion. The inspection record card  
704 specified in K.C.C. 16.02.410 shall serve as the certificate of occupancy for structures  
705 built under the International Residential Code.

706           SECTION 23. Ordinance 14914, Section 78, as amended, and K.C.C. 16.02.550  
707 are hereby amended to read as follows:

708           (~~Sections 112.1 and 112.2~~) Section 112 of the International Building Code  
709 (~~are~~) is not adopted.

710           SECTION 24. Ordinance 14914, Section 81, as amended, and K.C.C. 16.02.570  
711 are hereby amended to read as follows:

712           Section 113(~~3~~) of the International Building Code is not adopted.

713           SECTION 25. Ordinance 14914, Section 89, and K.C.C. 16.03.010 are hereby  
714 amended to read as follows:

715           This chapter and K.C.C. 16.02.110 contain(~~s~~) definitions of technical and  
716 procedural terms that are used throughout the title. The definitions in this chapter and  
717 K.C.C. 16.02.110 supplement the definitions contained in the International codes adopted  
718 in this title. The definitions in this chapter do not apply to K.C.C. chapter 16.82.

719           SECTION 26. Ordinance 14914, Section 90, as amended, and K.C.C. 16.03.020  
720 are hereby amended to read as follows:

721           The following definitions in (~~s~~)Section 202 of the International Building Code  
722 are not adopted:

723           A. Base flood;

724           B. Base flood elevation

Ordinance 19485

---

- 725 C. Coastal high-hazard area;
- 726 D. Design flood;
- 727 ~~((C.))~~ E. Dry floodproofing;
- 728 ~~((D. Existing construction;~~
- 729 ~~E.))~~ F. Flood hazard area;
- 730 ~~((F. Flood hazard area subject to high velocity wave action;))~~
- 731 G. Flood insurance rate map (FIRM);
- 732 H. Flood insurance study;
- 733 I. Floodway;
- 734 J. ~~((High Rise Building;))~~ Historic buildings;
- 735 K. ~~((Nonbuilding structure;))~~ Special flood hazard area; and
- 736 L. ~~((Start of construction; and~~
- 737 ~~M.))~~ Substantial improvement.

738 SECTION 27. Ordinance 3647, Section 3, as amended, and K.C.C. 16.03.040 are  
739 hereby amended to read as follows:

740 Whenever the following words appear in the code, they are to be changed as  
741 follows:

- 742 A. Building official or code official to the department of local services permitting  
743 division manager or designee;
- 744 B. Name of jurisdiction to unincorporated King County;
- 745 C. The department of building and safety to King County department of local  
746 services, permitting division; and
- 747 D. Design flood elevation to base flood elevation(~~(;~~

Ordinance 19485

---

748 ~~E. Mobile home to manufactured home~~)).

749 NEW SECTION. SECTION 28. There is hereby added to K.C.C. chapter 16.03

750 a new section to read as follows:

751 Air admittance valve: a device that:

752 A. Allows air to enter the plumbing drainage system in one direction to protect

753 fixture traps from siphonage when negative pressures develop;

754 B. Prevents sewer gases from entering the interior building atmosphere during

755 static pressure or positive pressure conditions in the plumbing waste system; and

756 C. Is listed to ASSE 1051 or ASSE 1050.

757 NEW SECTION. SECTION 29. There is hereby added to K.C.C. chapter 16.03

758 a new section to read as follows:

759 Boiler: any heating appliance or equipment that:

760 A. Heats potable water and supplies such water to the potable hot water

761 distribution system; and

762 B. Exceeds a pressure of 160 pounds per square inch (1103 kPa), a volume of

763 120 gallons (454 L) or a heat input of 200,000 Btu per hour (58 kW).

764 SECTION 30. Ordinance 11923, Section 1, as amended, and K.C.C. 16.03.060

765 are hereby amended to read as follows:

766 Condominium: real property, including but not limited to residential buildings

767 and mobile home parks, portions of which are designated for separate ownership and the

768 remainder of which is designated for common ownership solely by the owners of those

769 portions. Real property is not a condominium unless the undivided interests in the

770 common elements are vested in the condominium unit owners and unless a declaration

Ordinance 19485

---

771 and a survey map and plans have been recorded (~~(pursuant to)~~) in accordance with the  
772 Horizontal Property Regimes Act(~~(, chapter 64.34 RCW, )~~) in chapter 64.32 RCW or the  
773 Condominium Act(~~(, )~~) in chapter 64.34 RCW.

774 NEW SECTION. SECTION 31. There is hereby added to K.C.C. chapter 16.03  
775 a new section to read as follows:

776 Water heater: any heating appliance or equipment that:

777 A. Heats potable water and supplies such water to the potable hot water  
778 distribution system; and

779 B. Does not exceed a pressure of 160 pounds per square inch (1,103 kPa), a  
780 volume of 120 gallons (454 L) and a heat input of 200,000 Btu per hour (58 kW).

781 SECTION 32. Ordinance 12560, Section 43, as amended, and K.C.C. 16.04.250  
782 are hereby amended to read as follows:

783 Section (~~(501.2)~~) 502.1 of the International Building Code is not adopted and the  
784 following is substituted:

785 **Premises identification (IBC (~~(501.2)~~) 502.1).** Approved numbers or addresses  
786 shall be provided for all new buildings in such a position as to be plainly visible and  
787 legible from the (~~(street or)~~) road fronting the property as specified in (~~(King County~~  
788 ~~Code 16.08)~~) K.C.C. 16.08.050.

789 SECTION 33. Ordinance 14914, Section 133, as amended, and K.C.C. 16.04.260  
790 are hereby amended to read as follows:

791 Section 503.1 of the International Building Code is supplemented with the  
792 following:

Ordinance 19485

---

793           **Portable classrooms – Fire hydrants and access (IBC ((503.1.4)) 503.1.5)**. The  
794 location of portable classrooms on a site with existing buildings shall be approved by the  
795 ~~((F))~~fire ~~((M))~~marshal with respect to hydrant locations, access roads and available water  
796 for fire fighting purposes.

797           SECTION 34. Ordinance 12560, Section 44, as amended, and K.C.C. 16.04.270  
798 are hereby amended to read as follows:

799           Section 503.1 of the International Building Code is supplemented with the  
800 following:

801           **Portable classrooms - Location (IBC ((503.1.5)) 503.1.6)**. Portable classrooms  
802 located within 60 feet of any permanent buildings shall be located with a minimum clear  
803 space of 20 feet from any other portable classrooms and from the permanent buildings.

804           **EXCEPTIONS:**

805           1. Portable classrooms located in close proximity to each other, and more than 60  
806 feet from permanent buildings, may be considered as portions of one building with no  
807 minimum clearance or protection between them. The aggregate area of a cluster of  
808 portable classrooms considered as one building must meet the area limits specified in  
809 ~~((Section))~~ IBC 503.

810           2. Portable classrooms located more than 20 feet from ~~((main))~~ permanent  
811 buildings with exterior wall protection that is continuous through the crawlspace or  
812 skirted area may be located as follows:

813           2.1. When either of two portables has exterior wall protection rated for not less  
814 than one hour, with no openings or openings that comply with the area limits of  
815 ~~((Section))~~ IBC 705.8, the minimum clear space shall be 10 feet from any other portable.

Ordinance 19485

---

816 2.2. When both of two portables have exterior wall protection rated for not less  
817 than one hour with no openings, the minimum clear space shall be 5 feet from any other  
818 portable.

819 3. Portable classrooms may be placed within 60 feet of any building (~~provided~~  
820 ~~that~~) if the buildings comply with area limitations in (~~(Section))~~ IBC 503 as (~~(may be))~~  
821 modified by (~~(Section))~~ IBC 506. Calculations substantiating compliance of existing and  
822 proposed buildings with (~~(Section))~~ IBC 503 as modified by (~~(Section))~~ IBC 506 (~~(will))~~  
823 shall be required as part of the permit application documents.

824 SECTION 35. Ordinance 12560, Section 45, as amended, and K.C.C. 16.04.290  
825 are hereby amended to read as follows:

826 Section 901.1 of the International Building Code is not adopted and the following  
827 is substituted:

828 **Scope (IBC 901.1).** (~~(This chapter specifies where f))~~Fire protection and life  
829 safety systems (~~((are required and applies to the design, installation and operation of fire~~  
830 ~~protection systems))~~ shall comply with the International Fire Code as amended by K.C.C.  
831 Title 17.

832 (~~(1. ADDITIONAL REQUIREMENTS.~~

833 ~~1.1. The Fire Marshal or designee retains the authority under section 903.2.13.1~~  
834 ~~of the International Fire Code to impose additional conditions, including but not limited~~  
835 ~~to increased setbacks, use of fire retardant materials or standpipes where determined~~  
836 ~~necessary to mitigate identified fire protection impacts.~~

837 ~~1.2. This chapter applies to all buildings or structures whose county assessed~~  
838 ~~value has increased by more than 50% within a five year period due to the added value of~~

Ordinance 19485

---

839 ~~alterations and repairs. When the first permit application is submitted to alter or repair an~~  
840 ~~existing building, the county assessed value of the building at the time the complete~~  
841 ~~application is submitted shall be considered the base county assessed value for the~~  
842 ~~following five year period.~~

843 ~~1.3. Any additions to an existing building or structure shall be considered new~~  
844 ~~construction and subject the entire structure to the provisions of this chapter.~~

845 ~~1.4. All condominiums shall have the following wording in the recorded~~  
846 ~~Declaration of Covenants and a copy of the document shall be provided to the fire code~~  
847 ~~official or designee:~~

848 ~~1.4.1 In the event that any unit should be equipped with a sprinkler system,~~  
849 ~~nothing shall be hung from the sprinklers comprising a part of the system nor shall any~~  
850 ~~such sprinklers be painted, covered, or otherwise changed, tampered with or altered.~~

851 ~~1.4.2. Prior to any alteration, amendment, modification or change thereof, the~~  
852 ~~owners or their agents will submit such alteration, amendment, modification or change to~~  
853 ~~the fire marshal or designee for approval and agrees to comply with all applicable~~  
854 ~~sprinkler requirements.))~~

855 SECTION 36. Ordinance 14914, Section 141, and K.C.C. 16.04.300 are hereby  
856 amended to read as follows:

857 Section 903.1 of the International Building Code is not adopted and the following  
858 is substituted:

859 **General (IBC 903.1).** Automatic sprinkler systems shall comply with ~~((this~~  
860 ~~section. For provisions for special hazards and hazardous materials, Section 901.4.3 of~~

Ordinance 19485

---

861 ~~the International Fire Code applies))~~ the International Fire Code as amended by K.C.C.  
862 Title 17.

863 SECTION 37. Ordinance 12560, Section 47, as amended, and K.C.C. 16.04.310  
864 are hereby amended to read as follows:

865 Section 903.2 of the International Building Code is not adopted and the following  
866 is substituted:

867 **Where required (IBC 903.2).** Sprinklers ~~((are required as follows:~~

868 1. ~~For residential units and their accessory structures built under the International~~  
869 ~~Residential Code, sprinklers shall be installed in accordance with Section 903.2.13.~~

870 2. ~~For all other occupancies, an automatic sprinkler system shall be installed in~~  
871 ~~locations in accordance with Sections 903.2.1 through 903.2.12.~~

872 **EXCEPTION:** ~~Spaces or areas in telecommunications buildings used~~  
873 ~~exclusively for telecommunications equipment, associated electrical power distribution~~  
874 ~~equipment, batteries and standby engines, provided those spaces or areas are equipped~~  
875 ~~throughout with an automatic smoke detection system in accordance with Section 907.2~~  
876 ~~and are separated from the remainder of the building by not less than 1-hour fire barriers~~  
877 ~~constructed in accordance with Section 707 or not less than 2-hour horizontal assemblies~~  
878 ~~constructed in accordance with Section 711, or both.~~

879 3. ~~Sprinklers are also required in occupancies requiring 2,000 gallons per minute~~  
880 ~~or more fire flow, or where the total floor area included within the surrounding exterior~~  
881 ~~walls on all floor levels including basements exceeds 10,000 square feet))~~ shall comply  
882 with the International Fire Code as amended by K.C.C. Title 17.

Ordinance 19485

---

883            SECTION 38. Ordinance 14111, Section 55, as amended, and K.C.C. 16.04.330

884 are hereby amended to read as follows:

885            Section 903.2 of the International Building Code is supplemented with the  
886 following:

887            **All occupancies (IBC 903.2.13).** An automatic sprinkler system shall be  
888 installed in (~~residential units and accessory structures built~~) buildings constructed under  
889 the International Residential Code (~~as follows:~~

890            1. ~~If the gross floor area exceeds 2,500 square feet (including attached garages)~~  
891 ~~without adequate fire flow except as cited in K.C.C. 17.08.030;~~

892            2. ~~If there is no approved fire department access as defined in the road standards~~  
893 ~~of K.C.C. Title 14.~~

894            3. ~~If 2,000 gallons per minute or more fire flow is required, or where the total~~  
895 ~~floor area included within the surrounding exterior walls on all floor levels including~~  
896 ~~basements exceeds 10,000 square feet. For townhouses each unit is considered a separate~~  
897 ~~building.~~

898            **EXCEPTIONS:** ~~Attached decks, exterior porches and carports open on two~~  
899 ~~sides; or~~

900            4. ~~Where special hazards or unusual conditions exists in addition to the normal~~  
901 ~~hazard of the space due to the design, size, volume or use of the space, the Fire Marshal~~  
902 ~~is authorized to require additional safeguards suitable for the protection of the hazard or~~  
903 ~~condition involved. Additional safeguards can consist of automatic fire alarm system,~~  
904 ~~automatic sprinkler or water spray system, standpipe and hose, fixed or portable fire~~  
905 ~~extinguishers, or other special fire extinguishing systems. Where such systems are~~

Ordinance 19485

---

906 ~~provided, they shall be designed and installed in accordance with the applicable~~  
907 ~~International Fire Code Standards))~~ in accordance with the International Fire Code as  
908 amended by K.C.C. Title 17.

909 SECTION 39. Ordinance 15802, Section 23, as amended, and K.C.C. 16.04.344  
910 are hereby amended to read as follows:

911 Section ~~((1008.1.4))~~ 1010.1.4 of the International Building Code is not adopted  
912 and following is substituted:

913 **Special Doors (IBC ~~((1008.1.4))~~ 1010.1.4)** Special doors and security grilles  
914 shall comply with the requirements of ~~((sections 1008.1.4.1))~~ IBC 1010.1.4.1 through  
915 ~~((1008.1.4.5))~~ 1010.1.4.6.

916 SECTION 40. Ordinance 15802, Section 24, as amended, and K.C.C. 16.04.346  
917 are hereby amended to read as follows:

918 Section ~~((1008.1.4))~~ 1010.1.4 of the International Building Code is supplemented  
919 with the following:

920 **Mini-storage facility storage room doors (IBC ~~((1008.1.4.5))~~ 1010.1.4.6).** The  
921 access doors to storage rooms in mini-storage facilities shall meet the provisions of  
922 ~~((1008.1.2))~~ IBC 1010.1.2 and ~~((1008.1.9))~~ 1010.1.9.

923 **EXCEPTION:** If the storage room has less than 300 square feet of floor area, the  
924 access doors are not required to meet the provisions of ~~((1008.1.2))~~ IBC 1010.1.2 and  
925 ~~((1008.1.9))~~ 1010.1.9 under the following circumstances:

926 1. If the facility has any storage room with 300 square feet or less of floor area, at  
927 least one storage room shall comply with ~~((1008.1.2))~~ IBC 1010.1.2 and ~~((1008.1.9))~~  
928 1010.1.9; and

Ordinance 19485

---

929 2. For every 10 storage rooms with 300 square feet or less of floor area, the  
930 facility has at least one additional storage room with a door that complies with  
931 ~~((1008.1.2))~~ IBC 1010.1.2 and ~~((1008.1.9))~~ 1010.1.9.

932 SECTION 41. Ordinance 15802, Section 25, as amended, and K.C.C. 16.04.348  
933 are hereby amended to read as follows:

934 Section ~~((1009))~~ 1011 of the International Building Code is supplemented with  
935 the following:

936 **Stairways to mechanical rooms (IBC ~~((1009.18))~~ 1011.17)**; Platforms and  
937 rooms, used only to attend equipment, that are less than 300 square feet in area or have  
938 less than 5 feet of headroom are exempted from the requirement of ~~((sections 1009.1 to~~  
939 ~~1009.17))~~ IBC 1011.1 through 1011.16.

940 SECTION 42. Ordinance 14914, Section 155, as amended, and K.C.C. 16.04.360  
941 are hereby amended to read as follows:

942 Section ~~((1203.3.2))~~ 1202.4.1 of the International Building Code ~~((is not adopted~~  
943 ~~and the following is substituted))~~ is supplemented with the following:

944 **Under Floor Ventilation – Exception(s) (IBC ~~((1203.3.2))~~ 1202.4.1.3)**. The  
945 following ~~((are))~~ exception(s) applies to ~~((section 1203.3 and 1203.3.1))~~ IBC 1202.4:

946 ~~((1. Where warranted by climatic conditions, ventilation openings to the outdoors~~  
947 ~~are not required if ventilation openings to the interior are provided.~~

948 2. ~~The total area of ventilation openings is permitted to be reduced to 1/1500 of~~  
949 ~~the under floor area where the ground surface is treated with an approved vapor retarder~~  
950 ~~material and the required openings are placed so as to provide cross ventilation of the~~  
951 ~~space.~~

Ordinance 19485

---

952           3. ~~Ventilation openings are not required where continuously operated~~  
953 ~~mechanical ventilation is provided at a rate of one cubic foot per minute for each fifty~~  
954 ~~square feet of crawl space floor area and the ground surface is covered with an approved~~  
955 ~~vapor retarder.~~

956           4.) Ventilation openings are not required when the ground surface is covered  
957 with an approved vapor retarder, the perimeter walls are insulated and the space is  
958 conditioned in accordance with the International Energy Conservation Code(~~;~~  
959 ~~Commercial chapter 51-11C WAC and International Energy Conservation Code,~~  
960 ~~Residential, chapter 51-11R WAC)).~~

961           SECTION 43. Ordinance 14914, Section 156, as amended, and K.C.C. 16.04.370  
962 are hereby amended to read as follows:

963           Section ~~((1207))~~ 1206 of the International Building Code is supplemented with  
964 the following:

965           ~~((Sea-Tac))~~ **Seattle-Tacoma sound reduction standards (IBC ~~((1207.4))~~**  
966 **1206.4**. All buildings or structures constructed or placed in use for human occupancy on  
967 sites in the vicinity of ~~((Sea-Tac))~~ Seattle-Tacoma International Airport ~~((which))~~ that  
968 have been included within ~~((or enclosed by))~~ the Port of Seattle Noise Remedy ~~((Program~~  
969 ~~boundaries))~~ Boundary shall comply with the provisions in supplemental IBC Appendix  
970 Z as adopted by King County.

971           SECTION 44. Ordinance 14914, Section 157, as amended, and K.C.C. 16.04.380  
972 are hereby amended to read as follows:

973           Section ~~((1403.5))~~ 1402.6 of the International Building Code is not adopted and  
974 the following is substituted:

Ordinance 19485

---

975           **Performance requirements – Flood resistance (IBC ((1403.5)) 1402.6)**. For  
976 buildings in flood hazard areas as established in K.C.C. chapter 21A.24, exterior walls  
977 extending below the base flood elevation shall comply with K.C.C. chapter 21A.24.

978           SECTION 45. Ordinance 14914, Section 158, as amended, and K.C.C. 16.04.390  
979 are hereby amended to read as follows:

980           Section ((1403.6)) 1402.7 of the International Building Code is not adopted and  
981 the following is substituted:

982           **Performance requirements – Flood resistance for coastal high-hazard areas**  
983 **(IBC 1402.7).** Coastal high-hazard area standards shall be in accordance with K.C.C.  
984 chapter 21A.24.

985           SECTION 46. Ordinance 14914, Section 159 and K.C.C. 16.04.400 are hereby  
986 amended to read as follows:

987           Section ((1603.1.6)) 1603.1.7 of the International Building Code is not adopted.

988           SECTION 47. Ordinance 14914, Section 163, and K.C.C. 16.04.430 are hereby  
989 amended to read as follows:

990           Section ((1612.4)) 1612.2 of the International Building Code is not adopted.

991           SECTION 48. Ordinance 14914, Section 164, as amended, and K.C.C. 16.04.440  
992 are hereby amended to read as follows:

993           Section ((1612.5)) 1612.4 of the International Building Code is not adopted and  
994 the following is substituted:

995           **Flood hazard documentation (IBC ((1612.5)) 1612.4)**. For construction in  
996 flood hazard areas the applicant shall provide actual as-built elevation ((certification))

Ordinance 19485

---

997 certificate by a professional civil engineer or land surveyor licensed by the state of  
998 Washington.

999 SECTION 49. Ordinance 14914, Section 165, and K.C.C. 16.04.450 are hereby  
1000 amended to read as follows:

1001 Section ((1803.4)) 1804.5 of the International Building Code is not adopted and  
1002 the following is substituted:

1003 **Grading and fill in floodways (IBC ((1803.4)) 1804.5).** Excavation, grading  
1004 and fill in floodways shall be in accordance with K.C.C. chapter 21A.24.

1005 SECTION 50. Ordinance 14914, Section 168, and K.C.C. 16.04.480 are hereby  
1006 amended to read as follows:

1007 Section ((1807.1.2.1)) 1805.1.2.1 of the International Building Code is not  
1008 adopted and the following is substituted:

1009 **Flood hazard areas (IBC ((1807.1.2.1)) 1805.1.2.1).** For buildings and  
1010 structures in flood hazard areas as established in K.C.C. chapter 21A.24, ((~~the finished~~  
1011 ~~ground level of an under floor space such as a crawl space shall be equal to or higher~~  
1012 ~~than the outside finished grade level)) fully enclosed areas below the lowest floor and  
1013 below the flood protection elevation, including crawl spaces and attached garages, shall  
1014 be in accordance with K.C.C. chapter 21A.24.~~

1015 SECTION 51. Ordinance 12560, Section 54, as amended and K.C.C. 16.04.490  
1016 are hereby amended to read as follows:

1017 Section 2902.1 of the International Building Code ((~~as amended by chapter 51-~~  
1018 ~~50 WAC,)) is not adopted and the following is substituted:~~

Ordinance 19485

---

1019           **Minimum number of fixtures (IBC 2902.1).** The number of plumbing fixtures  
1020 within a building shall not be less than ~~((set forth in Section))~~ what is required by IBC  
1021 2902. Fixtures located within gender-neutral toilet and bathing rooms shall be included  
1022 in determining the number of fixtures provided in an occupancy. The director ~~((of public~~  
1023 ~~health))~~ is authorized to determine the number of plumbing fixtures within a building  
1024 and to enforce this section.

1025           SECTION 52. Ordinance 12560, Section 67, as amended, and K.C.C. 16.04.550  
1026 are hereby amended to read as follows:

1027           The International Building Code is supplemented ~~((by))~~ with the following  
1028 appendix:

1029           **Purpose (IBC AZ 101).** The purpose of these sections is to safeguard life,  
1030 health, property and public welfare by establishing minimum requirements regulating the  
1031 design, construction~~((;))~~ and~~((or setting on site))~~ siting of buildings for human  
1032 occupancy ~~((in))~~ within the ~~((vicinity of Sea-Tac))~~ Seattle-Tacoma International Airport's  
1033 ~~((as identified on the maps referenced in the April 24, 1985 Federal Register, Volume 50,~~  
1034 ~~No. 79))~~ Noise Remedy Boundary as established by the Port of Seattle pursuant to the  
1035 2013 Part 150 Noise Compatibility Study. These sections are not intended to abridge any  
1036 safety or health requirements required under any other applicable codes or ordinances.

1037           SECTION 53. Ordinance 12560, Section 68, as amended, and K.C.C. 16.04.560  
1038 are hereby amended to read as follows:

1039           The International Building Code is supplemented ~~((by))~~ with the following  
1040 appendix:

Ordinance 19485

---

1041 **Scope (IBC AZ 102).** The provisions of this ~~((chapter))~~ section shall apply to all  
 1042 buildings or structures constructed or placed ~~((in use))~~ for human occupancy on sites  
 1043 within the ~~((vicinity of))~~ Seattle-Tacoma International Airport's ~~((which have been~~  
 1044 ~~included within or enclosed by the Port of Seattle))~~ Noise Remedy ~~((Program~~  
 1045 ~~boundaries))~~ Boundary;

1046 1. ~~((Structures r))~~ Relocated structures shall comply with all requirements of this  
 1047 chapter, and~~((;))~~

1048 2. Manufactured or mobile homes located in mobile home parks shall be exempt  
 1049 from these requirements.

1050 This chapter is intended to supplement the provisions of the International  
 1051 Residential Code, the International Mechanical Code, the Washington state Energy  
 1052 Code~~((;))~~ and the International Building Code. In the case of conflict between the chapter  
 1053 and any other applicable codes the more restrictive requirements shall be met.

1054 SECTION 54. Ordinance 12560, Section 74, as amended, and K.C.C. 16.04.620  
 1055 are hereby amended to read as follows:

1056 The International Building Code is supplemented ~~((by))~~ with the following  
 1057 appendix:

1058 ~~((Sea-Tac))~~ **Seattle-Tacoma noise program area (IBC AZ 108).** ~~((Noise~~  
 1059 ~~determined))~~ Noise-determined construction requirements detailed in this chapter shall be  
 1060 applied to new construction and additions ~~((of all structures))~~ within the designated areas  
 1061 of the Port of Seattle's Noise Remedy Boundary, except for not-normally-inhabited  
 1062 portions of warehouses, storage buildings and similar structures as determined by the  
 1063 director~~((, within the designated program areas of the Port of Seattle's Noise Remedy~~

---

Ordinance 19485

---

1064 ~~Program. The applicable program areas are the Neighborhood Reinforcement Area and~~  
 1065 ~~the Cost Share Insulation Area)). Specific construction requirements ((for these two~~  
 1066 ~~areas)) are:~~

1067 ~~((a) Neighborhood Reinforcement Area:~~

1068 ~~1)) 1. Bedrooms ((must)) shall comply with IBC AZ 125 which is designed to~~  
 1069 ~~achieve a noise reduction of 35 ((db)) dB.~~

1070 ~~((2)) 2. All other living and working areas ((must)) shall comply with IBC AZ~~  
 1071 ~~117 which is designed to achieve a noise reduction level of 30 dB.~~

1072 ~~((b) Cost Share Insulations Area:~~

1073 ~~1) Bedrooms must comply with AZ 117 which is designed to achieve a noise~~  
 1074 ~~reduction of 30 dB.~~

1075 ~~2) All other living and working areas must comply with AZ 110 which is~~  
 1076 ~~designed to achieve a noise reduction level of 25 dB.)~~

1077 SECTION 55. Ordinance 12560, Section 89, as amended, and K.C.C. 16.04.770  
 1078 are hereby amended to read as follows:

1079 The International Building Code is supplemented ((by)) with the following  
 1080 appendix:

1081 **Floors 30 dB compliance (IBC AZ 123).** The floor of the lowest occupied  
 1082 rooms shall be slab on fill, below grade((-)) or over a fully enclosed basement or crawl  
 1083 space. All door and window openings in the fully enclosed basement shall be tightly  
 1084 fitted.

1085 **EXCEPTION:** Floors over fully enclosed garages or over carports shall have a  
 1086 laboratory sound transmission class rating of at least STC-35. The floor over the garage

Ordinance 19485

---

1087 or carport shall be insulated to not less than R-19, but not less than that specified by the  
1088 ~~((Washington state energy code))~~ International Energy Conservation Code and enclosed  
1089 with one layer of 5/8" type 'X' GWB on the garage or carport side or any equivalent  
1090 approved garage or dwelling separation assembly in conformance with ~~((IRC-s))~~  
1091 International Residential Code Section ~~((R309.2))~~ R302.6.

1092 SECTION 56. Ordinance 12560, Section 97, as amended, and K.C.C. 16.04.850  
1093 are hereby amended to read as follows:

1094 The International Building Code is supplemented ~~((by))~~ with the following  
1095 appendix:

1096 **Floors 35 dB compliance (IBC AZ 131).** The floor of the lowest occupied  
1097 rooms shall be slab on fill or below grade or over a fully enclosed basement or crawl  
1098 space. All door and window openings in the fully enclosed basement shall be tightly  
1099 fitted.

1100 **EXCEPTION:** Floors over fully enclosed garages or over carports shall have a  
1101 laboratory sound transmission class rating of at least STC-40. The floor over the garage  
1102 or carport shall be insulated to not less than R-19, but not less than that specified by the  
1103 ~~((Washington state energy code))~~ International Energy Conservation Code and enclosed  
1104 with two layers of 5/8" type 'X' GWB on the garage or carport side or any equivalent  
1105 approved garage/dwelling separation assembly in conformance with ~~((IRC-s))~~  
1106 International Residential Code Section ~~((R309.2))~~ R302.6.

1107 SECTION 57. Ordinance 12380, Section 1, and K.C.C. 16.04.930 are hereby  
1108 amended to read as follows:

Ordinance 19485

---

1109           A. The purpose of this section is to establish standards for the location, review  
1110 and installation of manufactured and mobile homes (and accessory structures) as well as  
1111 factory-built commercial structures and coaches.

1112           B. These standards shall apply to all manufactured or mobile homes (and  
1113 accessory structures) or factory-built commercial structures and coaches to be installed  
1114 after August 4, 1996.

1115           SECTION 58. Ordinance 12380, Section 2, and K.C.C. 16.04.940 are hereby  
1116 amended to read as follows:

1117           A manufactured or mobile home with an insignia of approval by the Washington  
1118 ~~((S))~~state Department of Labor and Industries ~~((DLI))~~ (L&I) or the U.S. Department of  
1119 Housing and Urban Development (HUD) may locate on any legal lot on which a dwelling  
1120 unit is permitted by K.C.C. Title 21A and within any legally approved mobile home park.  
1121 ~~((However, a))~~A manufactured or mobile home without such insignia shall not be  
1122 relocated to or within King County ~~((except as provided in K.C.C. 16.04.950.B))~~.

1123           SECTION 59. Ordinance 12380, Section 3, as amended, and K.C.C. 16.04.950  
1124 are hereby amended to read as follows:

1125           All manufactured or mobile homes shall comply with the following requirements:

1126           ~~((A. "Insignia" Mobile Homes))~~ 1. Manufactured or ~~((M))~~mobile homes  
1127 approved by ~~((DLI))~~ Washington state Department of Labor and Industries (L&I) or the  
1128 U.S. Department of Housing and Urban Development (HUD) shall have the appropriate  
1129 insignia indicating such approval affixed to the unit, in accordance with chapter 43.22  
1130 RCW.

Ordinance 19485

---

1131           ~~((B. "Noninsignia" Mobile Homes. Mobile homes without an insignia of~~  
1132 ~~approval in accordance with subsection A of this section are subject to the following~~  
1133 ~~provisions:~~

1134           ~~1. Mobile homes currently located within King County may remain in their~~  
1135 ~~current location. However, prior to the relocation of such mobile home to another portion~~  
1136 ~~of King County, the owner shall provide evidence that the mobile home was located~~  
1137 ~~within King County before January 21, 1980. A "noninsignia" mobile home currently~~  
1138 ~~located outside of King County may be relocated to King County only when subject to~~  
1139 ~~forced relocation in accordance with RCW 59.21.105.~~

1140           ~~2. Prior to installing a noninsignia mobile home, the mobile home shall be~~  
1141 ~~inspected and approved by the department. The inspection shall review consistency with~~  
1142 ~~the following livability standards, but shall not be considered a warranty that the mobile~~  
1143 ~~home is safe or livable:~~

1144           ~~a. the unit must have safe, operable heating facilities.~~

1145           ~~b. the unit must be equipped with a water closet, lavatory, bathtub or shower,~~  
1146 ~~and kitchen sink; be provided with hot and cold running water; and all facilities shall be~~  
1147 ~~installed and maintained in a safe and sanitary condition.~~

1148           ~~c. the structure must be weather protected so as to provide shelter for the~~  
1149 ~~occupants against the elements and to exclude dampness.~~

1150           ~~d. all openable windows and doors must be in operable condition to provide~~  
1151 ~~for adequate natural ventilation and emergency exit.~~

1152           ~~e. at least one operable smoke detector shall be installed within the unit.~~

Ordinance 19485

---

1153 ~~f. the unit shall be structurally sound with no apparent unsafe condition in~~  
1154 ~~floors, walls, ceilings and roofs.~~

1155 ~~g. the unit must be well maintained, free of debris and infestation of insects,~~  
1156 ~~vermin or rodents.~~

1157 ~~C.)~~ 2. ~~((All mobile homes are subject to the following i))~~ Installation  
1158 requirements:

1159 2.1. ~~((Support systems and stabilizing devices shall be designed and installed in~~  
1160 ~~accordance with the provisions of WAC 296-150B-200))~~ Manufactured or mobile homes  
1161 shall be installed consistent with chapter 296-150 WAC and in accordance with the  
1162 manufacturers installation requirements as approved by Washington state Department of  
1163 Labor and Industries (L&I).

1164 2.2. Electrical connections shall be inspected and approved by the Washington  
1165 ~~((S))~~ state Department of Labor and Industries (L&I).

1166 2.3. Manufactured or mobile homes supported on piers shall be fully skirted.

1167 2.4. Manufactured or mobile homes located outside of a mobile home park shall  
1168 be subject to the setback and lot coverage provisions of the zone in which they are  
1169 located.

1170 ~~((D.))~~ 3. Accessory Structures.

1171 3.1. Accessory structures shall be subject to the provisions of the International  
1172 Building Code or the International Residential Code, as applicable, as adopted in King  
1173 County and a building permit shall be required before construction or installation.

1174 3.2. Separation between accessory structures and other structures shall be ~~((as~~  
1175 ~~set forth))~~ in accordance with K.C.C. 21A.14.160 or K.C.C. 21A.14.170 ~~((or~~

---

Ordinance 19485

---

1176 ~~21A.14.180~~). However, if the accessory structure is a carport constructed of  
1177 combustible materials, the carport roof area shall not extend over or otherwise cover any  
1178 bedroom windows and no other accessory structures other than decks, porches, stairs or  
1179 ramps shall be permitted under the carport roof area.

1180 SECTION 60. Ordinance 12380, Section 4, as amended, and K.C.C. 16.04.960  
1181 are hereby amended to read as follows:

1182 ~~((A.))~~ 1. Installation of a manufactured or mobile home shall require ~~((the~~  
1183 ~~approval of a mobile home))~~ a building permit by the department ~~((pursuant to))~~ in  
1184 accordance with the permit process and procedures in K.C.C. chapter 16.02 and for type  
1185 1 permits outlined in K.C.C. chapter 20.20. ~~((The permit shall expire one year after date~~  
1186 ~~of issuance. A permit may be renewed for a maximum of one year upon request of the~~  
1187 ~~applicant, provided such requests are made within fifteen days of the date of expiration of~~  
1188 ~~the original permit. Mobile homes shall not be permanently occupied for more than~~  
1189 ~~forty five days prior to issuance of a certificate of occupancy by the department.~~

1190 ~~B.))~~ 2. The following ~~((must))~~ shall be submitted with a ~~((n))~~ building permit  
1191 application for a manufactured or mobile home ~~((permit, except that when the mobile~~  
1192 ~~home is to be located in an approved mobile home park, subsection B.1.d., 1.e., 1.h., 1.i.~~  
1193 ~~and 3 shall not apply:~~

1194 1. Two copies of a site plan drawn to scale, showing:  
1195 a. north arrow and scale,  
1196 b. location and dimensions of all property lines or leased areas, and easements,  
1197 c. proposed location of mobile home and/or accessory structure(s) on the site  
1198 or space,

---

Ordinance 19485

---

1199 ~~d. distances from the mobile home and accessory structure(s) to property lines,~~  
1200 ~~e. approximate surface elevation at each corner of the site,~~  
1201 ~~f. location of parking spaces,~~  
1202 ~~g. name or number of street on which site or space is located,~~  
1203 ~~h. location of septic tank and drainfield, if sewers are not available,~~  
1204 ~~i. location of well or other water source, if public water supply is not~~  
1205 ~~available;));~~

1206 2.1. A description of the manufactured or mobile home, including:

1207 a. model number,

1208 b. Washington ~~((S))~~state ~~((and/))~~or ~~((H.U.D.))~~ U.S. Department of Housing  
1209 and Urban Development (HUD) ID number or both,

1210 c. name of manufacturer and year of manufacture;

1211 ~~((3.))~~ 2.2. Two copies of plans showing that the proposed foundation system, if  
1212 more than one-fourth of the floor area of the manufactured or mobile home, as measured  
1213 from the bottom of the main frame members, will be more than three feet above the  
1214 existing ground level, or when any supporting piers exceed sixty inches in height;

1215 ~~((4.))~~ 2.3. A ~~((State Contractors or Mobile Home Dealers Registration Card, or~~  
1216 ~~photocopy of same and))~~ Certified Manufactured Home Installers number.

1217 ~~((C. An accessory structure in excess of 200 square feet of floor area including~~  
1218 ~~roof overhang shall require the approval of a building permit by the department pursuant~~  
1219 ~~to the permit process and procedures for type 1 permits outlined in K.C.C. chapter 20.20.~~  
1220 ~~An application for a building permit for an accessory structure shall include site plans~~  
1221 ~~drawn consistent with the provisions of subsection B.1. If an application for a building~~

Ordinance 19485

---

1222 ~~permit for an accessory structure is submitted together with an application for a mobile~~  
1223 ~~home permit and if the accessory structure is less than 600 square feet in area, the fee for~~  
1224 ~~the accessory structure shall be waived.))~~

1225           SECTION 61. Ordinance 12380, Section 5, as amended, and K.C.C. 16.04.970  
1226 are hereby amended to read as follows:

1227           ~~((A-))~~ 1. Factory-built commercial structures and coaches shall be located,  
1228 installed and used in the same manner as conventional commercial structures, except to  
1229 the extent that construction standards are regulated by the Washington ~~((S))~~state  
1230 Department of Labor and Industries or the U.S. Department of Housing and Urban  
1231 Development.

1232           ~~((B-))~~ 2. Factory-built commercial structures and commercial coaches shall be  
1233 installed subject to the following:

1234           2.1. A building permit ~~((must))~~ shall be obtained for any factory-built  
1235 commercial structure or commercial coach ~~((pursuant to))~~ in accordance with the permit  
1236 process and procedures for type 1 permits outlined in K.C.C. chapter 20.20.

1237           2.2. The following criteria must be satisfied for the permanent installation of a  
1238 factory-built commercial structure or commercial coach before a building permit can be  
1239 issued:

1240           a. The appropriate insignia of the Washington ~~((S))~~state Department of Labor  
1241 and Industries ~~((of))~~ or the U.S. Department of Housing and Urban Development ~~((must))~~  
1242 shall be affixed to the unit. If the unit is lacking the appropriate insignia, it must satisfy  
1243 the structural, mechanical, electrical and plumbing requirements of the International

Ordinance 19485

---

1244 Building, Mechanical and other applicable codes as adopted in King County for  
1245 conventional commercial structures.

1246           b. The foundation, entry/exit stairs or ramps, and all accessory structures shall  
1247 be designed and installed in accordance with the provisions of the International Building  
1248 Code as adopted in King County.

1249           c. Occupancy of the structure shall not be permitted before inspection and  
1250 approval.

1251           2.3. The temporary installation of factory-built commercial structures and  
1252 commercial coaches may be permitted for a period not to exceed one year. The support  
1253 system recommended by the manufacturer, or designed by a professional structural  
1254 engineer registered by the state, may be substituted for a foundation designed in  
1255 accordance with the provisions of the International Building Code as adopted in King  
1256 County, subject to the approval of the department.

1257           2.4. Factory-built construction office trailers may be placed without an  
1258 additional permit as long as the site is covered by a valid building permit.

1259           SECTION 62. Ordinance 7853, Section 1, as amended, and K.C.C. 16.04.980 are  
1260 hereby amended to read as follows:

1261           ~~((A.))~~ 1. Authority. The director is authorized and directed to enforce the  
1262 provisions of this chapter and any rules and regulations promulgated thereunder,  
1263 ~~((pursuant to))~~ in accordance with the enforcement and penalty provisions of K.C.C. Title  
1264 23.

1265           **EXCEPTION:** The director of ~~((the department of))~~ public health - Seattle &  
1266 King County is authorized to enforce ~~((International Building Code Section 2902.1 and~~

---

## Ordinance 19485

1267 ~~Table 29-A chapter 51-50 WAC and~~) the fuel gas piping requirements in the  
 1268 International Fuel Gas Code, WAC 51-52-0101 and Chapter 24 of the International  
 1269 Residential Code.

1270 ~~((B-))~~ 2. General. All construction or work for which a permit is required shall  
 1271 be subject to inspection by the director.

1272 ~~((C- Authority. The director is authorized and directed to enforce this chapter))~~

1273 3. Administration. The director is authorized to promulgate, adopt, maintain and  
 1274 issue ~~((those))~~ rules and regulations necessary to the effective and efficient administration  
 1275 of this chapter~~((, such rules and regulations to be adopted and maintained))~~ in accordance  
 1276 with the provisions for the rules of county agencies~~((;))~~ in K.C.C. chapter 2.98.

1277 ~~((D-))~~ 4. Plan Reviews and Inspections. All buildings constructed under ~~((the~~  
 1278 ~~provisions of))~~ this chapter are subject to a final inspection for compliance with this  
 1279 chapter. The director has the authority to establish rules and procedures for accepting at  
 1280 the director's option an affidavit of substantial compliance with this chapter in lieu of  
 1281 plan reviews ~~((and/))~~ or inspections.

1282 SECTION 63. Ordinance 14914, Section 272, as amended, and K.C.C. 16.05.040  
 1283 are hereby amended to read as follows:

1284 Table R301.2(1) of the International Residential Code is not adopted and the  
 1285 following is substituted:

**Table R301.2(1)**

**CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA FOR KING COUNTY**

Ground	Wind	Seismic	Subject to damage from				Winter	Ice-	Flood	Air	Mean
			Weathering	Frost	Termite	Decay					

## Ordinance 19485

snow load	speed (mph)	design category		line depth			design temp.	shield required	hazards	freezing index	annual temp.
Varies <sub>1</sub>	((85)) <u>110</u>	D1 or D2 <sub>((2))</sub> <sup>2</sup>	Moderate	12" < 1,000ft elev. <sub>((3))</sub> <sup>3</sup>	Slight to Mod.	Slight to Mod.	25	No	Varies <sub>4</sub>	100 to 250	50

1288

Footnotes:

1289

1. Snow loads shall be determined in accordance with King County public rules.

1290

The minimum roof design snow load shall be 25 pounds per square feet.

1291

2. Seismic design category shall be D1 for areas of unincorporated King County

1292

to the east of the Snoqualmie River as it traverses from the King County-Snohomish

1293

County line to the city limits of Snoqualmie, east of the ~~((town))~~ city of Snoqualmie, east

1294

of the Snoqualmie Parkway and the Echo Lake-Snoqualmie Cut-off SE as they run from

1295

the city limits of the ~~((town))~~ city of Snoqualmie to State ~~((Highway))~~ Route 18 and to

1296

the south or east of State ~~((Highway))~~ Route 18. All other portions of unincorporated

1297

King County shall be seismic design category D2.

1298

3. The frost line depth shall be considered to be 12 inches for sites up to an

1299

elevation of 1000 feet above sea level, 18 inches for sites ~~((greater))~~ more than 1000 feet

1300

and up to an elevation of 2000 feet above sea level or 24 inches for sites ~~((greater))~~ more

1301

than 2000 feet above sea level. Frost depth may be otherwise determined by specific site

1302

analysis, but shall not be less than 12 inches.

1303

4. Flood hazard within King County varies. See the flood hazard code provisions

1304

of K.C.C. chapter 21A.24.

1305

SECTION 64. Ordinance 15802, Section 78, and K.C.C. 16.05.065 are hereby

1306

amended to read as follows:

Ordinance 19485

---

1307 Section (~~(R310.5)~~) R310.2.4 of the International Residential Code is not adopted  
1308 and the following is substituted:

1309 **Emergency escape windows under decks and porches (IRC (~~(R310.5)~~)**  
1310 **R310.2.4** Emergency escape windows are allowed to be installed under decks, porches,  
1311 roof overhangs, awnings(~~(s)~~) or similar projections (~~(provided)~~) if the location allows the  
1312 emergency escape window to be fully opened and provides a path not less than 36 inches  
1313 (914mm) in height and not less than 36 inches (914 mm) in width with a maximum  
1314 unobstructed travel length directly to a yard or court based on 3:1, length to height ratio  
1315 or as approved by the building official. This distance shall be measured from the edge of  
1316 the window or if served by a window well from the edge of that window well.

1317 **EXCEPTION:** When the vertical height is (~~(6'8")~~) 6 feet 8 inches (2,032 mm) or  
1318 (~~(greater)~~) more, the travel distance or length is unlimited.

1319 SECTION 65. Ordinance 14914, Section 275, as amended, and K.C.C. 16.05.070  
1320 are hereby amended to read as follows:

1321 Section (~~(R324)~~) R322 of the International Residential Code is not adopted and  
1322 the following is substituted:

1323 **Building planning – Flood-resistant construction (IRC (~~(R324)~~) R322).**  
1324 Flood-resistant construction (~~(will)~~) shall comply with the flood hazard standards in  
1325 K.C.C. chapter 21A.24.

1326 SECTION 66. Ordinance 14914, Section 276, as amended, and K.C.C. 16.05.080  
1327 are hereby amended to read as follows:

1328 Chapter 3 of the International Residential Code is supplemented with the  
1329 following:

Ordinance 19485

---

1330           **Automatic fire sprinkler((s)) systems (IRC ((~~R325~~) R313).** Automatic fire  
 1331 sprinklers shall be provided as required by International Fire Code Section 903.2(~~(10.4~~  
 1332 ~~of the International Fire Code~~)).

1333           SECTION 67. Ordinance 12560, Section 74, as amended, and K.C.C. 16.05.130  
 1334 are hereby amended to read as follows:

1335           Appendix K of the International Residential Code is supplemented with the  
 1336 following:

1337           **Appendix K - Sound transmission - ((~~Sea-Tac~~) Seattle-Tacoma noise**  
 1338 **program area (IRC ((~~AK101.1~~) AK101.2).** All buildings or structures constructed or  
 1339 placed (~~(in use)~~) for human occupancy on sites within the (~~(vicinity of)~~) Seattle-Tacoma  
 1340 International Airport's (~~(that have been included within or enclosed by the Port of~~  
 1341 ~~Seattle's)~~) Noise Remedy (~~(Program boundaries)~~) Boundary shall comply with the  
 1342 provisions in the International Building Code Appendix Z.

1343           SECTION 68. Sections 69 through 123 of this ordinance should constitute a new  
 1344 chapter in K.C.C. Title 16.

1345           NEW SECTION. SECTION 69. There is hereby added to the chapter established  
 1346 in section 68 of this ordinance a new section to read as follows:

1347           **Scope (IECC C101.2).** The International Energy Conservation Code (IECC)  
 1348 applies to commercial buildings and their building((s)) sites and associated systems and  
 1349 equipment unless the code states otherwise. References in this code to Group R shall  
 1350 include Group I-1, Condition 2 assisted living facilities licensed by Washington state  
 1351 under chapter 388-78A WAC and Group I-1, Condition 2 residential treatment facilities  
 1352 licensed by Washington state under chapter 246-337 WAC. Building areas that contain

Ordinance 19485

---

1353 Group R sleeping units, regardless of the number of stories in height, are required to  
1354 comply with the commercial sections of the ((energy code)) IECC.

1355       **EXCEPTION:** The provisions of this code do not apply to temporary growing  
1356 structures used solely for the commercial production of horticultural plants such as  
1357 ornamental plants, flowers, vegetables and fruits. A temporary growing structure is not  
1358 considered a building for the purposes of this code. However, the installation of other  
1359 than listed, portable mechanical equipment or listed, portable lighting fixtures is not  
1360 allowed.

1361       NEW SECTION. SECTION 70. There is hereby added to the chapter established  
1362 in section 68 of this ordinance a new section to read as follows:

1363       **Intent (IECC C101.3).** This code shall regulate the design and construction of  
1364 buildings for the use and conservation of energy and the reduction of carbon emissions  
1365 over the life of each building. This code is intended to provide flexibility to permit the  
1366 use of innovative approaches and techniques to achieve this objective. This code is not  
1367 intended to abridge safety, health or environmental requirements contained in other  
1368 applicable codes or ordinances.

1369       NEW SECTION. SECTION 71. There is hereby added to the chapter established  
1370 in section 68 of this ordinance a new section to read as follows:

1371       **International Energy Conservation Code definitions not adopted.** The  
1372 following definitions in Section 202 of the International Energy Conservation Code are  
1373 not adopted:

- 1374       A. Conditioned space;
- 1375       B. Continuous insulation; and

Ordinance 19485

---

1376 C. Mass transfer deck slab edge.

1377 NEW SECTION. SECTION 72. There is hereby added to the chapter established

1378 in section 68 of this ordinance a new section to read as follows:

1379 The definitions in this section apply to this chapter and supplement the definitions

1380 contained in the IECC as adopted, amended and supplemented by this title. Where

1381 definitions in this section differ from the definitions in the International codes as

1382 amended and supplemented by K.C.C. chapter 16.03, the definitions in this section shall

1383 control.

1384 A. AAMA: the American Architectural Manufacturers Association.

1385 B. Affordable housing: buildings that:

1386 1. Are owned by a public housing authority for the purpose of providing

1387 housing the restricts at least 51 percent of the units to be occupied by and affordable to

1388 households with incomes no more than 80 percent of area median income;

1389 2. Are owned by a government agency or nonprofit organization and operated as

1390 a shelter, including temporary and emergency shelter facilities providing day and

1391 warming centers that do not provide overnight accommodation, for people receiving

1392 support services from county-recognized assistance programs for homelessness; or

1393 3. Are subject to a regulatory agreement, covenant or other legal instrument

1394 recorded on the property title for a minimum of 40 years that:

1395 a. Restricts at least 51 percent of the units to be occupied by and affordable to

1396 households with incomes no more than 80 percent of area median income; or

1397 b. Restricts initial and subsequent sales of at least 51 percent of the residential

1398 units to households with incomes no more than 80 percent of area median income.

Ordinance 19485

---

1399 C. ASHRAE: the American Society of Heating, Refrigerating and Air-  
1400 Conditioning Engineers.

1401 D. ASTM: the American Society for Testing and Materials.

1402 E. Automatic control device: a device capable of automatically turning electrical  
1403 loads off and on without manual intervention.

1404 F. Btu: British thermal units.

1405 G. Conditioned space: an area, room or space enclosed within the building  
1406 thermal envelope and that is directly or indirectly heated or cooled. Spaces are indirectly  
1407 heated or cooled where they communicate through openings with conditioned spaces,  
1408 where they are separated from conditioned spaces by uninsulated walls, floors or ceilings,  
1409 or where they contain uninsulated ducts, piping or other sources of heating or cooling.  
1410 Elevator shafts, stair enclosures, enclosed corridors connecting conditioned spaces and  
1411 enclosed spaces through which conditioned air is transferred at a rate exceeding three air  
1412 changes per hour are considered conditioned spaces for the purposes of the building  
1413 thermal envelope requirements.

1414 H. Continuous insulation: insulating material that is continuous across all  
1415 structural members without metal thermal bridges other than fasteners that have a total  
1416 cross-sectional area not more than 0.04 percent (0.12 percent where all metal thermal  
1417 bridges are stainless steel) of the envelope surface through which they penetrate, and  
1418 service openings. It is installed on the interior or exterior or is integral to any opaque  
1419 surface of the building envelope.

1420 I. Controlled receptacle: an electrical receptacle that is controlled by an  
1421 automatic control device.

Ordinance 19485

---

- 1422 J. CSA: the CSA group.
- 1423 K. DOAS: dedicated outdoor air system.
- 1424 L. Fossil fuel: a substance used to generate energy as defined in K.C.C.
- 1425 21A.06.532C.
- 1426 M. HPWH: heat pump water heater.
- 1427 N. HVAC: heating, ventilation and air conditioning.
- 1428 O. LLLC: luminaire-level lighting controls.
- 1429 P. \_LPD: lighting power density.
- 1430 Q. Mass transfer deck slab: a concrete slab designed to transfer structural load
- 1431 from the building perimeter wall or column line above, laterally to an offset wall or
- 1432 column line below, and which has conditioned or semi-heated space on the inside of the
- 1433 upper wall and exterior or unconditioned space on the outside of the upper wall, such as
- 1434 the transition from an above-grade structure to a below-grade structure or the transition
- 1435 from a tower to a podium. The area of the slab edge shall be defined as the thickness of
- 1436 the slab multiplied by the length of the edge condition. A cantilevered concrete balcony
- 1437 does not constitute a mass transfer deck slab.
- 1438 R. Multi-pass: a heat pump water heater control strategy requiring multiple
- 1439 passes of water through the heat pump to reach the final target storage water temperature.
- 1440 S. NAECA: the National Appliance Energy Conservation Act of 1987.
- 1441 T. NFRC: the National Fenestration Rating Council.
- 1442 U. Single-pass: a heat pump water heater control strategy using variable flow or
- 1443 variable capacity to deliver water from the heat pump at the final target storage water

Ordinance 19485

---

1444 temperature in a single pass through the heat exchanger with variable incoming water  
1445 temperatures.

1446 V. Solar zone: a clear area or areas reserved solely for current or future  
1447 installation of photovoltaic or solar hot water systems.

1448 W. Temperature maintenance: the system used to maintain the temperature of  
1449 the building domestic hot water delivery system, typically by circulation and reheating or  
1450 by a heat trace system.

1451 X. TSPR: total system performance ratio.

1452 Y. VAV: variable air volume.

1453 NEW SECTION. SECTION 73. There is hereby added to the chapter established  
1454 in section 68 of this ordinance a new section to read as follows:

1455 Section C402.1.3 of the International Energy Conservation Code is supplemented  
1456 with the following:

1457 **Insulation Component R-value method – applications for Table C402.1.3**  
1458 **(IECC C402.1.3.1).** Where the total area of through-wall mechanical equipment is more  
1459 than 1 percent of the opaque above-grade wall area in IECC Table C402.1.3, use of the  
1460 R-value method is not allowed. See IECC C402.1.4.2.

1461 NEW SECTION. SECTION 74. There is hereby added to the chapter established  
1462 in section 68 of this ordinance a new section to read as follows:

1463 Table C402.1.4 of the International Energy Conservation Code is not adopted and  
1464 the following is substituted:

1465 **TABLE C402.1.4**

## Ordinance 19485

1466 **OPAQUE THERMAL ENVELOPE ASSEMBLY MAXIMUM REQUIREMENTS,**  
 1467 **U-FACTOR METHOD<sup>a, f</sup>**

	<b>CLIMATE ZONE 5 AND MARINE 4</b>	
	<b>All Other</b>	<b>Group R</b>
<b>Roofs</b>		
Insulation entirely above deck	U-0.027	U-0.027
Metal buildings	U-0.027	U-0.027
Attic and other	U-0.021	U-0.021
Joist or single rafter	U-0.027	U-0.027
<b>Walls, Above Grade</b>		
Mass <sup>a,b</sup>	U-0.057	U-0.057
Mass transfer deck slab edge <sup>d</sup>	U-0.20	U-0.20
Slab penetrating thermal envelope wall <sup>h</sup>	U-0.10	U-0.10
Metal building <sup>b</sup>	U-0.052	U-0.052
Steel framed <sup>b</sup>	U-0.055	U-0.055
Wood framed and other <sup>b</sup>	U-0.051	U-0.051
<b>Walls, Below Grade</b>		
Below-grade wall <sup>g</sup>	U-0.070	U-0.070
<b>Floors</b>		
Mass <sup>c</sup>	U-0.031	U-0.031
Joist/framing	U-0.029 steel joist U-0.025 wood joist	U-0.029 steel joist U-0.025 wood joist
Concrete column or wall penetrating thermal envelope floor <sup>i</sup>	U-0.55	U-0.55
Concrete slab floor directly above an electrical utility vault	N.R.	N.R.
<b>Slab-on-Grade Floors</b>		
Unheated slabs	F-0.54	F-0.54

## Ordinance 19485

---

Heated slabs <sup>c</sup>	F-0.55	F-0.55
<b>Opaque Doors</b>		
Swinging door	U-0.37	U-0.37
Nonswinging door	U-0.34	U-0.34
Garage door <14% glazing	U-0.31	U-0.31

1468 Footnotes:

1469 a. Use of opaque assembly U-factors, C-factors, and F-factors from IECC

1470 Appendix A is required unless otherwise allowed by IECC C402.1.4.

1471 b. Through-wall mechanical equipment subject to IECC C402.1.4.2 shall be  
 1472 calculated at the U-factor defined in IECC C402.1.4.2. The area-weighted U-value of the  
 1473 wall, including through-wall mechanical equipment, shall not exceed the value in the  
 1474 table.

1475 c. Heated slab F-factors shall be determined specifically for heated slabs.

1476 Unheated slab factors shall not be used.

1477 d. A mass transfer deck, due to its configuration, is not insulated. The table value  
 1478 (U-0.20) shall be used as the baseline value for component performance or total building  
 1479 performance path calculations. For the proposed value, the appropriate value from the  
 1480 top line of IECC Table A104.3.7.2 shall be used.

1481 e. "Mass floors" shall include floors weighing not less than:

1482 (1) 35 pounds per square foot of floor surface area; or

1483 (2) 25 pounds per square foot of floor surface area where the material weight is

1484 not more than 120 pounds per cubic foot.

Ordinance 19485

---

1485 f. Opaque assembly U-factors based on designs tested in accordance with ASTM  
1486 C1363 is allowed. The R-value of continuous insulation is allowed to be added or  
1487 subtracted from the original test design.

1488 g. Peripheral edges of intermediate concrete floors are included in the above  
1489 grade mass wall category and therefore must be insulated as above grade mass walls  
1490 unless they meet the definition of a mass transfer deck slab edge. The area of the  
1491 peripheral edges of concrete floors shall be defined as the thickness of the slab multiplied  
1492 by the perimeter length of the edge condition. See IECC Table A103.3.7.2 for typical  
1493 default U-factors for above grade slab edges and footnote c for typical conditions of  
1494 above grade slab edges.

1495 h. Intermediate concrete floor slabs penetrating the building thermal envelope  
1496 shall comply with IECC C402.2.9. The area of such penetrating concrete floor slabs shall  
1497 be defined as the thickness of the slab multiplied by the length of the penetration. The  
1498 "exposed concrete" row in IECC Table A103.3.7.2 shall be used for typical default U-  
1499 factors for the penetrating concrete slab.

1500 i. Value applies to concrete columns and concrete walls that interrupt mass floor  
1501 insulation, but not to perimeter walls or columns separating interior conditioned space  
1502 from exterior space.

1503 NEW SECTION. SECTION 75. There is hereby added to the chapter established  
1504 in section 68 of this ordinance a new section to read as follows:

1505 Section C402.1.4 of the International Energy Conservation Code is supplemented  
1506 with the following:

1507           **Thermal resistance of mechanical equipment penetrations (IECC**  
1508 **C402.1.4.2).** When the total area of penetrations from through-wall mechanical  
1509 equipment or equipment listed in IECC Table C403.3.2(3) exceeds 1 percent of the  
1510 opaque above-grade wall area, the mechanical equipment penetration area shall be  
1511 calculated as a separate wall assembly with a default U-factor of 0.5. Mechanical system  
1512 ducts and louvers, included those for supply, exhaust and relief, and for condenser air  
1513 intake and outlet, are not considered to be mechanical equipment for the purposes of this  
1514 section.

1515           **EXCEPTION:** Where mechanical equipment has been tested in accordance with  
1516 approved testing standards, the mechanical equipment penetration area may be calculated  
1517 as a separate wall assembly using the U-factor determined by such test.

1518           NEW SECTION. SECTION 76. There is hereby added to the chapter established  
1519 in section 68 of this ordinance a new section to read as follows:

1520           Section C402.2 of the International Energy Conservation Code is supplemented  
1521 with the following:

1522           **Above-grade exterior concrete slabs (IECC C402.2.9).** Above-grade concrete  
1523 slabs that penetrate the building thermal envelope, including but not limited to decks and  
1524 balconies, shall each include a minimum R-10 thermal break, aligned with the primary  
1525 insulating layer in the adjoining wall assemblies. Stainless steel reinforcing bars may  
1526 penetrate the thermal break; carbon steel reinforcing bars shall not penetrate the thermal  
1527 break. If the total building performance path or the component performance alternative  
1528 in IECC C402.1.5 is used and the thermal break required by this section is not provided  
1529 where concrete slabs penetrate the building thermal envelope, the sectional area of the

---

Ordinance 19485

---

1530 penetration shall be assigned the default U-factors from the "exposed concrete" row of  
1531 IECC Table A103.3.7.2.

1532 **EXCEPTION:** Mass transfer deck slab edges.

1533 NEW SECTION. SECTION 77. There is hereby added to the chapter established  
1534 in section 68 of this ordinance a new section to read as follows:

1535 Section C402.2 of the International Energy Conservation Code is supplemented  
1536 with the following:

1537 **Vertical fenestration intersection with opaque walls (IECC C402.2.10).**

1538 Vertical fenestration shall comply with the following as applicable:

1539 1. Where wall assemblies include continuous insulation, the exterior glazing  
1540 layer of vertical fenestration and any required thermal break in the frame shall each be  
1541 aligned within 2 inches laterally of either face of the continuous insulation layer.

1542 2. Where wall assemblies do not include continuous insulation, the exterior  
1543 glazing layer of vertical fenestration and any required thermal break in the frame shall  
1544 each be aligned within the thickness of the wall insulation layer and not more than 2  
1545 inches laterally from the exterior face of the outermost insulation layer.

1546 3. Where the exterior face of the vertical fenestration frame does not extend to  
1547 the exterior face of the opaque wall rough opening, the exposed exterior portion of the  
1548 rough opening shall be covered with either a material having an R-value not less than R-  
1549 3, or with minimum 1.5-inch thickness wood.

1550 NEW SECTION. SECTION 78. There is hereby added to the chapter established  
1551 in section 68 of this ordinance a new section to read as follows:

## Ordinance 19485

1552 Section C402.4 of the International Energy Conservation Code is not adopted and  
1553 the following is substituted:

1554 **Fenestration – prescriptive (IECC C402.4).** Fenestration shall comply with  
1555 IECC C402.4 through C402.4.4 and IECC Table C402.4. Daylight responsive controls  
1556 shall comply with this section and IECC C405.2.4.

1557 **EXCEPTION:** For prescriptive envelope compliance, single-pane glazing is  
1558 allowed for security purposes and for revolving doors, not to exceed one percent of the  
1559 gross exterior wall area. Where IECC C402.1.5, component performance alternative, is  
1560 used, the single glazing shall be included in the percentage of the total glazing area, U-  
1561 factor and SHGC requirements.

1562 **Table C402.4**

1563 **Building Envelope Fenestration Maximum U-factor and SHGC Requirements**

<b>CLIMATE ZONEs 5 AND MARINE 4</b>	
<b>U-factor for Class AW windows rated in accordance with AAMA/CSA101/I.S.2/A440, vertical curtain walls and site-built fenestration products<sup>a</sup></b>	
Fixed <sup>b</sup> U-factor	U-0.34
Operable <sup>c</sup> U-factor	U-0.36
<b><i>Entrance doors<sup>d</sup></i></b>	
U-factor	U-0.60
<b>U-factor for all other vertical fenestration</b>	

## Ordinance 19485

Fixed U-factor	U-0.26	
Operable <sup>c</sup> U-factor	U-0.28	
<b>SHGC for all vertical fenestration</b>		
<b>Orientation<sup>e,f</sup></b>	<b>SEW</b>	<b>N</b>
PF < 0.2	0.38	0.51
$0.2 \leq \text{PF} < 0.5$	0.46	0.56
PF $\geq 0.5$	0.61	0.61
<b>Skylights</b>		
U-factor	U-0.45	
SHGC	0.32	

1564 Footnotes:

1565 a. U-factor and SHGC shall be rated in accordance with NFRC 100. This  
 1566 category includes curtain wall, storefront, ribbon wall, window wall and similar site-  
 1567 assembled systems. This category does not include punched-opening manufactured  
 1568 windows except for "Class AW" windows as designated by AAMA.

1569 b. "Fixed" includes curtain wall, storefront, picture windows and other fixed  
 1570 windows.

1571 c. "Operable" includes operable fenestration products other than "entrance  
 1572 doors."

Ordinance 19485

---

1573 d. "Entrance door" includes glazed swinging entrance doors and glazed automatic  
1574 sliding entrance doors. Other doors which are not entrance doors, including manually  
1575 operated sliding glass doors, are considered "operable."

1576 e. "N" indicates vertical fenestration oriented within 30 degrees of true north.  
1577 "SEW" indicates orientations other than "N."

1578 f. Fenestration that is entirely within the conditioned space or is between  
1579 conditioned and other enclosed space is exempt from solar heat gain coefficient  
1580 requirements and not included in the SHGC calculation.

1581 NEW SECTION. SECTION 79. There is hereby added to the chapter established  
1582 in section 68 of this ordinance a new section to read as follows:

1583 Section C402.4.1.1.2 of the International Energy Conservation Code is not  
1584 adopted and the following is substituted:

1585 **High-performance fenestration (IECC C402.4.1.1.2).** The following  
1586 requirements shall be met:

1587 1. All vertical fenestration in the building shall comply with the following  
1588 maximum U-factors:

1589 1.1. U-factor for Class AW windows rated in accordance with  
1590 AAMA/CSA101/I.S.2/A440, vertical curtain walls and site-built fenestration products  
1591 (fixed) = 0.30.

1592 1.2. U-factor for Class AW windows rated in accordance with  
1593 AAMA/CSA101/I.S.2/A440, vertical curtain walls and site-built fenestration products  
1594 (operable) = 0.36.

1595 1.3. Entrance doors = 0.60.

Ordinance 19485

---

1596 1.4. U-factor for all other vertical fenestration, fixed = 0.22.

1597 1.5. U-factor for all other vertical fenestration, operable = 0.24.

1598 2. The SHGC of the vertical fenestration shall be no more than 0.90 times the  
1599 maximum SHGC values listed in IECC Table C402.4.

1600 An area-weighted average may satisfy the U-factor requirement for each  
1601 fenestration product category listed in subsection 1 of this section. Individual  
1602 fenestration products from different fenestration product categories shall not be combined  
1603 in calculating the area-weighted average U-factor.

1604 NEW SECTION. SECTION 80. There is hereby added to the chapter established  
1605 in section 68 of this ordinance a new section to read as follows:

1606 Section C402.4.2.1 of the International Energy Conservation Code is not adopted  
1607 and the following is substituted:

1608 **Lighting controls in daylight zones under skylights (IECC C402.4.2.1).**

1609 Where IECC 405.2.3.1 is cited in IECC 402.4.2, IECC 405.2.4 shall be used instead.

1610 Daylight responsive controls complying with IECC C405.2.4 shall be provided to control  
1611 all electric lights within toplit zones.

1612 NEW SECTION. SECTION 81. There is hereby added to the chapter established  
1613 in section 68 of this ordinance a new section to read as follows:

1614 Section C403.1.1 of the International Energy Conservation Code is supplemented  
1615 with the following:

1616 **HVAC TSPR – medical office and residential applications (C403.1.1.1).**

1617 Systems serving medical offices, and the dwelling units and residential common areas  
1618 within R-2 multifamily, shall comply with 403.1.1.

Ordinance 19485

---

1619           **EXCEPTION:** Buildings or areas of medical office buildings that comply fully  
1620 with ASHRAE Standard 170, including but not limited to surgical centers, or that are  
1621 required by other applicable codes or standards to provide air handling units that operate  
1622 24 hours per day, 7 days per week.

1623           NEW SECTION. SECTION 82. There is hereby added to the chapter established  
1624 in section 68 of this ordinance a new section to read as follows:

1625           Section C403.1 of the International Energy Conservation Code is supplemented  
1626 with the following:

1627           **Use of electric resistance and fossil fuel-fired HVAC heating equipment (IECC**  
1628 **C403.1.4).** HVAC heating energy shall not be provided by electric resistance or fossil fuel  
1629 combustion appliances. For the purposes of this section, electric resistance HVAC heating  
1630 appliances include but are not limited to electric baseboard, electric resistance fan coil and  
1631 VAV electric resistance terminal reheat units and electric resistance boilers. For the  
1632 purposes of this section, fossil fuel combustion HVAC heating appliances include but are  
1633 not limited to appliances burning natural gas, heating oil, propane or other fossil fuels.

1634           **EXCEPTIONS:**

1635           1. Pasteurization. Electric resistance heat controls are allowed to reset the supply  
1636 water temperature of hydronic heating systems that serve service water heating heat  
1637 exchangers during pasteurization cycles of the service hot water storage volume. The  
1638 hydronic heating system supply water temperature shall be configured to be 145° F or  
1639 lower during the pasteurization cycle.

1640           2. Low heating capacity. Buildings or areas of buildings, other than dwelling  
1641 units or sleeping units, that meet the interior temperature requirements of International

Ordinance 19485

---

1642 Building Code Chapter 12 with a total installed HVAC heating capacity no more than 8.5  
1643 Btu/h (2.5 Watts) per square foot of conditioned space may be heated using electric  
1644 resistance appliances. For the purposes of this exception, overhead or wall-mounted  
1645 radiant heating panels installed in an unheated or semi-heated space, insulated in  
1646 compliance with IECC C402.2.8 and controlled by occupancy sensing devices in  
1647 compliance with IECC C403.11.1 shall not be part of the HVAC heating energy  
1648 calculation.

1649         3. Dwelling or sleeping units. Dwelling or sleeping units having an installed  
1650 HVAC heating capacity no more than 750 Watts in any separate habitable room with  
1651 exterior fenestration may be heated using electric resistance appliances.

1652             3.1 Corner rooms. A room within a dwelling or sleeping unit that has two  
1653 primary walls facing different cardinal directions, each with exterior fenestration, is  
1654 permitted to have an installed HVAC heating capacity no more than 1000 watts. Bay  
1655 windows and other minor offsets are not considered primary walls.

1656         4. Small buildings. Buildings with less than 2,500 square feet of conditioned floor  
1657 area may be heated using electric resistance appliances.

1658         5. Defrost. Heat pumps may use electric resistance as the first stage of heating  
1659 when a defrost cycle is required and is in operation.

1660         6. Air-to-air heat pumps. Buildings may use electric resistance auxiliary  
1661 heating to supplement heat pump heating for air-to-air heat pumps with that meet the  
1662 following conditions:

1663             6.1. Internal electric resistance heaters have controls that prevent supplemental  
1664 heater operation when the heating load can be met by the heat pump alone during both

Ordinance 19485

---

1665 steady-state operation and setback recovery.

1666 6.2. The heat pump controls are configured to use the compressor to provide

1667 heating down to an outdoor air temperature of 17° F or lower;

1668 6.3. The heat pump complies with the following:

1669 a. Controlled by a digital or electronic thermostat designed for heat pump use

1670 that energizes the supplemental heat only when the heat pump has insufficient capacity to

1671 maintain set point or to warm up the space at a sufficient rate;

1672 b. Controlled by a multistage space thermostat and an outdoor air thermostat

1673 wired to energize supplemental heat only on the last stage of the space thermostat and when

1674 outdoor air temperature is less than 32° F; or

1675 c. The minimum efficiency of the heat pump is regulated by NAECA, its rating

1676 meets the requirements shown in IECC Table C403.3.2(2), and its rating includes all usage

1677 of internal electric resistance heating.

1678 6.4 The heat pump rated heating capacity is sized to meet the heating load at an

1679 outdoor air temperature of 32° F or lower and has a rated heating capacity at 47° F no less

1680 than 2 times more than supplemental electric resistance heating capacity, or uses the

1681 smallest available factory-available internal electric resistance heater.

1682 7. Air-to-water heat pumps, up to 2,000 MBH. Buildings may use electric

1683 resistance auxiliary heating to supplement heat pump heating for hydronic heating

1684 systems that have air-to-water heat pump heating capacity no more than 2,000 kBtu/h at

1685 47° F, and that meet the following conditions:

1686 7.1. Controls for the auxiliary electric resistance heating are configured to lock

1687 out the supplemental heat when the outside air temperature is above 32° F, unless the hot

---

Ordinance 19485

---

1688 water supply temperature setpoint to the building heat coils cannot be maintained for 20  
1689 minutes;

1690 7.2. The heat pump controls are configured to use the compressor as the first stage  
1691 of heating down to an outdoor temperature of 17° F or lower except during startup or  
1692 defrost operation; and

1693 7.3. The heat pump rated heating capacity at 47° F is no less than 2 times more  
1694 than supplemental electric resistance heating capacity.

1695 8. Air-to-water heat pumps, up to 3,000 MBH. Buildings may use electric  
1696 resistance auxiliary heating to supplement heat pump heating for hydronic heating  
1697 systems that have air-to-water heat pump heating capacity more than 2,000 kBtu/hr and  
1698 no more than 3,000 kBtu/hr at 47° F, and that meet the following conditions:

1699 8.1. Controls for the auxiliary electric resistance heating are configured to lock  
1700 out the supplemental heat when the outside air temperature is above 36° F, unless the hot  
1701 water supply temperature setpoint to the building heat coils cannot be maintained for 20  
1702 minutes;

1703 8.2. The heat pump controls are configured to use the compressor as the first stage  
1704 of heating down to an outdoor temperature of 17° F or lower except during startup or  
1705 defrost operation; and

1706 8.3. The heat pump rated heating capacity at 47° F is no less than 1.75 times more  
1707 than supplemental electric resistance heating capacity.

1708 9. Air-to-water heat pumps, over 3,000 MBH. Buildings may use electric  
1709 resistance auxiliary heating to supplement heat pump heating for hydronic heating

Ordinance 19485

---

1710 systems that have air-to-water heat pump heating capacity more than 3,000 kBtu/h at  
1711 47° F, and that meet the following conditions:

1712           9.1. Controls for the auxiliary electric resistance heating are configured to lock  
1713 out the supplemental heat when the outside air temperature is above 40° F, unless the hot  
1714 water supply temperature setpoint to the building heat coils cannot be maintained for 20  
1715 minutes;

1716           9.2. The heat pump controls are configured to use the compressor as the first stage  
1717 of heating down to an outdoor temperature of 17° F or lower except during startup or  
1718 defrost operation; and

1719           9.3. The heat pump rated heating capacity at 47° F is no less than 2 times more  
1720 than supplemental electric resistance heating capacity.

1721           10. Ground source heat pumps. Buildings may use electric resistance auxiliary  
1722 heating to supplement heat pump heating for hydronic heating systems with ground source  
1723 heat pump equipment that meets the following conditions:

1724           10.1. Controls for the auxiliary resistance heating are configured to lock out the  
1725 supplemental heat when the outdoor air temperature is above 32° F, unless the hot water  
1726 supply temperature setpoint to the building heat coils cannot be maintained for 20 minutes;

1727           10.2. The heat pump controls are configured to use the compressor as the first  
1728 stage of heating down to an outdoor temperature of 17° F or lower; and

1729           10.3. The heat pump rated heating capacity at 32° F entering water conditions is  
1730 no less than 2 times more than supplemental electric resistance heating capacity.

1731           11. Small systems. Buildings in which electric resistance or fossil fuel appliances,  
1732 including decorative appliances, in total either provide less than 5 percent of the total

Ordinance 19485

---

1733 building HVAC system heating capacity or serve less than 5 percent of the conditioned  
1734 floor area.

1735           12. Specific conditions. Portions of buildings that require fossil fuel or electric  
1736 resistance space heating for specific conditions approved by the code official for research,  
1737 health care, process or other specific needs that cannot practicably be served by heat pump  
1738 or other space heating systems. This does not constitute a blanket exception for any  
1739 occupancy type.

1740           13. Kitchen exhaust. Make-up air for commercial kitchen exhaust systems  
1741 required to be tempered by International Mechanical Code Section 508.1.1 may be heated  
1742 using electric resistance appliances.

1743           14. District energy. Steam or hot water district energy systems that use fossil  
1744 fuels as their primary source of heat energy, that serve multiple buildings, and that were  
1745 already in existence before the effective date of this ordinance, including more energy-  
1746 efficient upgrades to such existing systems, may serve as the primary heating energy  
1747 source.

1748           15. Heat tape. Heat tape is allowed where it protects water-filled equipment and  
1749 piping located outside of the building thermal envelope if it is configured and controlled to  
1750 be automatically turned off when the outside air temperature is above 40° F.

1751           16. Temporary systems. Temporary electric resistance heating systems are allowed  
1752 where serving future tenant spaces that are unfinished and unoccupied if the heating  
1753 equipment is sized and controlled to achieve interior space temperatures no higher than 40°  
1754 F.

1755           17. Emergency generators. Emergency generators are permitted to use fossil fuels.

---

Ordinance 19485

---

1756            NEW SECTION. SECTION 83. There is hereby added to the chapter established  
1757 in section 68 of this ordinance a new section to read as follows:

1758            Section C403.3.5.1 of the International Energy Conservation Code is not adopted  
1759 and the following is substituted:

1760            **Energy recovery ventilation with DOAS (IECC C403.3.5.1).** The DOAS shall  
1761 include energy recovery ventilation. The energy recovery system shall have a 60 percent  
1762 enthalpy recovery effectiveness in accordance with IECC C403.7.6. For DOAS having a  
1763 total fan system motor nameplate hp less than 5 hp, total combined fan power shall not  
1764 exceed 1 W/cfm of outdoor air. For DOAS having a total fan system motor hp more than  
1765 or equal to 5 hp, refer to fan power limitations of IECC C403.8.1. This fan power  
1766 restriction applies to each dedicated outdoor air unit in the permitted project, but does not  
1767 include the fan power associated with the zonal heating or cooling equipment or both.  
1768 The airflow rate thresholds for energy recovery requirements in IECC Tables  
1769 C403.7.6.1(1) and C403.7.6.1(2) do not apply.

1770            **EXCEPTIONS:**

- 1771            1. Occupied spaces with the following characteristics:
- 1772            1.1. complies with IECC C403.7.6;
- 1773            1.2. served by equipment less than 5,000 cfm;
- 1774            1.3. has an average occupant load 15 people or more per 1,000 square feet (93  
1775 m<sup>2</sup>) of floor area (as established in International Mechanical Code Table 403.3.1.1);
- 1776            1.4. includes demand control ventilation configured to reduce outdoor air by at  
1777 least 50 percent below design minimum ventilation rates when the actual occupancy of  
1778 the space served by the system is less than the design occupancy; and

Ordinance 19485

---

1779 1.5. is smaller than 650 square feet.

1780 2. Systems installed for the sole purpose of providing makeup air for systems  
1781 exhausting toxic, flammable, paint or corrosive fumes or dust, dryer exhaust or  
1782 commercial kitchen hoods used for collecting and removing grease vapors and smoke.

1783 3. The energy recovery systems for R-1 and R-2 occupancies are permitted to  
1784 provide 60 percent minimum sensible heat recovery effectiveness in lieu of 60 percent  
1785 enthalpy recovery effectiveness. The return/exhaust air stream temperature for heat  
1786 recovery device selection shall be 70° F or as determined by an approved calculation  
1787 procedure.

1788 NEW SECTION. SECTION 84. There is hereby added to the chapter established  
1789 in section 68 of this ordinance a new section to read as follows:

1790 Section C403.4.1.1 of the International Energy Conservation Code is not adopted  
1791 and the following is substituted:

1792 **Heat pump supplementary heat (IECC C403.4.1.1).** Heat pumps equipped  
1793 with internal electric resistance heaters shall have controls that prevent supplemental  
1794 heater operation when the heating load can be met by the heat pump alone during both  
1795 steady-state operation and setback recovery. Supplemental heater operation is permitted  
1796 during outdoor coil defrost cycles. Heat pumps equipped with supplementary heaters  
1797 shall comply with all conditions of IECC C403.1.4.

1798 **EXCEPTION:** Heat pumps whose minimum efficiency is regulated by NAECA  
1799 and whose ratings meet the requirements shown in IECC Table C403.3.2(2) and include  
1800 all usage of internal electric resistance heating.

Ordinance 19485

---

1801            NEW SECTION. SECTION 85. There is hereby added to the chapter established  
1802 in section 68 of this ordinance a new section to read as follows:

1803            Section C403.7.1 of the International Energy Conservation Code is not adopted  
1804 and the following is substituted:

1805            **Demand control ventilation (IECC C403.7.1).** Demand control ventilation  
1806 (DCV) shall be provided for spaces larger than 500 square feet (46.5 m) and with an  
1807 average occupant load of 15 people or more per 1,000 square feet (93 m<sup>2</sup>) of floor area,  
1808 as established in International Mechanical Code Table 403.3.1.1, and served by systems  
1809 with one or more of the following:

- 1810            1. An air-side economizer;
- 1811            2. Automatic modulating control of the outdoor air damper; or
- 1812            3. A design outdoor airflow more than 3,000 cfm (1,416 L/s).

1813            **EXCEPTIONS:**

1814            1. Systems with energy recovery complying with IECC C403.7.6.1 or IECC  
1815 C403.3.5.1. This exception is not available for space types located within the  
1816 "inclusions" column of Groups A-1 and A-3 occupancy classifications of IECC Table  
1817 C403.3.5.

1818            2. Multiple-zone systems without direct digital control of individual zones  
1819 communicating with a central control panel.

1820            3. Multiple-zone systems with a design outdoor airflow less than 750 cfm (354  
1821 L/s).

Ordinance 19485

---

1822 4. Spaces, including but not limited to dining areas, where more than 75 percent  
1823 of the space design outdoor airflow is transfer air required for makeup air supplying an  
1824 adjacent commercial kitchen.

1825 5. Ventilation provided only for process loads.

1826 6. Spaces with one of the following occupancy categories, as defined by the  
1827 International Mechanical Code: correctional cells, daycare sickrooms, science labs,  
1828 barbers, beauty and nail salons and bowling alley seating.

1829 7. Dormitory sleeping units.

1830 NEW SECTION. SECTION 86. There is hereby added to the chapter established  
1831 in section 68 of this ordinance a new section to read as follows:

1832 Section C403.7.6 of the International Energy Conservation Code is not adopted  
1833 and the following is substituted:

1834 **Energy recovery ventilation systems (IECC C403.7.6).** Any system with  
1835 minimum outside air requirements at design conditions more than 5,000 cfm or any  
1836 system where the system's supply airflow rate exceeds the value listed in IECC Tables  
1837 C403.7.6(1) and C403.7.6(2), based on the climate zone and percentage of outdoor  
1838 airflow rate at design conditions, shall include an energy recovery system. IECC Table  
1839 C403.7.6(1) shall be used for all ventilation systems that operate less than 8,000 hours  
1840 per year, and IECC Table C403.7.6(2) shall be used for all ventilation systems that  
1841 operate 8,000 hours or more per year. The energy recovery system shall have the  
1842 capability to provide a change in the enthalpy of the outdoor air supply of not less than 60  
1843 percent of the difference between the outdoor air and return air enthalpies, at design  
1844 conditions. Where an air economizer is required, the energy recovery system shall

Ordinance 19485

---

1845 include a bypass of the energy recovery media for both the outdoor air and exhaust air or  
1846 return air dampers and controls which permit operation of the air economizer as required  
1847 by IECC C403.5. Where a single room or space is supplied by multiple units, the  
1848 aggregate ventilation (cfm) of those units shall be used in applying this requirement. The  
1849 return/exhaust air stream temperature for heat recovery device selection shall be 70° F  
1850 (21° C) at 30 percent relative humidity, or as calculated by the registered design  
1851 professional.

1852 **EXCEPTIONS:**

1853 1. The energy recovery systems for occupancy type I-2 hospitals, medical office  
1854 buildings and buildings that primarily consist of technical laboratory spaces may provide  
1855 a change of enthalpy of the outdoor air and return air of not less than 50 percent of the  
1856 difference between the outdoor air and return air enthalpies, at design conditions. These  
1857 occupancies may also use exception 3.

1858 2. The energy recovery systems for R-1 and R-2 occupancies shall have a 60  
1859 percent minimum sensible heat recovery effectiveness, in lieu of 60 percent enthalpy  
1860 recovery effectiveness. The return/exhaust air stream temperature for heat recovery  
1861 device selection shall be 70° F (21° C), or as calculated by the registered design  
1862 professional.

1863 3. An energy recovery ventilation system shall not be required under the  
1864 following conditions:

1865 3.1. Where energy recovery systems are restricted by International Mechanical  
1866 Code Section 514 to sensible energy, recovery shall comply with the following:

1867 a. Kitchen exhaust systems where they comply with IECC C403.7.7.1;

Ordinance 19485

---

1868           b. Laboratory fume hood systems where they comply with Exception 2 of  
1869 IECC C403.7.6; or

1870           c. Other sensible energy recovery systems with the capability to provide a  
1871 change in dry bulb temperature of the outdoor air supply of not less than 50 percent of the  
1872 difference between the outdoor air and the return air dry bulb temperatures, at design  
1873 conditions.

1874           3.2. Laboratory fume hood systems that include at least one of the following  
1875 features and also comply with IECC C403.7.7.2:

1876           a. Variable-air-volume hood exhaust and room supply systems capable of  
1877 reducing exhaust and makeup air volume to 50 percent or less of design values; or

1878           b. Direct makeup (auxiliary) air supply equal to at least 75 percent of the  
1879 exhaust rate, heated no warmer than 2° F (1.1° C) above room set point, cooled to no  
1880 cooler than 3° F (1.7° C) below room set point, no humidification added and no  
1881 simultaneous heating and cooling used for dehumidification control.

1882           3.3. Systems serving spaces that are heated to less than 60° F (15.5° C) and are  
1883 not cooled.

1884           3.4. Where more than 60 percent of the outdoor air heating energy is provided  
1885 from site-recovered energy.

1886           3.5. Systems exhausting toxic, flammable, paint or corrosive fumes or dust.

1887           3.6. Cooling energy recovery in Climate Zones 3C, 4C, 5B, 5C, 6B, 7 and 8.

1888           3.7. Systems requiring dehumidification that use energy recovery in series with  
1889 the cooling coil.

Ordinance 19485

---

1890 3.8. Multi-zone systems where the supply airflow rate is less than the values  
1891 specified in IECC Tables C403.7.6(1) and C403.7.6(2) for the corresponding percent of  
1892 outdoor air. Where a value of NR is listed, energy recovery shall not be required.

1893 3.9. Equipment which meets the requirements of IECC C403.9.2.4.

1894 3.10. Systems serving Group R-1 and R-3 dwelling or sleeping units where the  
1895 largest source of air exhausted at a single location at the building exterior is less than 25  
1896 percent of the design outdoor air flow rate.

1897 NEW SECTION. SECTION 87. There is hereby added to this chapter established  
1898 in section 68 of this ordinance a new section to read as follows:

1899 Section C403.10 of the International Energy Conservation Code is not adopted  
1900 and the following is substituted:

1901 **C403.10 Construction of HVAC system elements.** Ducts, plenums, piping and  
1902 other elements that are part of an HVAC system shall be constructed and insulated in  
1903 accordance with Sections C403.10.1 through C403.10.4.

1904 NEW SECTION. SECTION 88. There is hereby added to the chapter established  
1905 in section 68 of this ordinance a new section to read as follows:

1906 Section C403.10 of the International Energy Conservation Code is supplemented  
1907 with the following:

1908 **Insulation of refrigerant piping (C403.10.4).** Refrigerant piping, other than  
1909 piping factory installed in HVAC equipment, shall have minimum 1/2-inch insulation  
1910 within conditioned spaces and 1-inch insulation outside of conditioned spaces, at a  
1911 conductivity rating of 0.21 to 0.26 Btu x in/(h x ft<sup>2</sup> x ° F) with a mean temperature rating  
1912 of 75° F.

Ordinance 19485

---

1913            NEW SECTION. SECTION 89. There is hereby added to the chapter established  
1914 in section 68 of this ordinance a new section to read as follows:

1915            Section C403 of the International Energy Conservation Code is supplemented  
1916 with the following:

1917            **Commercial food service (C403.14).** The following types of equipment within  
1918 the scope of the applicable Energy Star program shall comply with the applicable energy-  
1919 efficiency and water-efficiency criteria required to achieve the Energy Star label:

- 1920            1. Commercial fryers.
- 1921            2. Commercial hot food holding cabinets.
- 1922            3. Commercial steam cookers.
- 1923            4. Commercial dishwashers.

1924            NEW SECTION. SECTION 90. There is hereby added to the chapter established  
1925 in section 68 of this ordinance a new section to read as follows:

1926            Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code  
1927 are not adopted and the following is substituted:

1928            **Service water heating system type (C404.2.1 and C404.2.2).** In buildings with  
1929 central service water heating systems serving four or more Group R-1 or R-2 dwelling or  
1930 sleeping units, and in any other building that has a heated water circulation system or a  
1931 combined water heating capacity greater than 15 kW (51,195 Btu/h) under a single  
1932 permit, the primary service water heating equipment shall not use fossil fuel combustion  
1933 or electric resistance. Service hot water shall be provided by an air-source HPWH  
1934 system meeting the requirements of this section, or a ground-source HPWH system.

Ordinance 19485

---

1935 Supplemental service water heating equipment is permitted to use electric resistance in  
1936 compliance with IECC C404.2.1.2 and C404.2.2.2.

1937 **EXCEPTIONS:**

1938 1. Unitary heat pump water heaters located in conditioned space are permitted  
1939 where they are sized to meet all calculated service water heating demand using the heat  
1940 pump compressor, and not supplementary heat.

1941 2. A service water heating system in a tenant space under a separate permit with a  
1942 total heating capacity no greater than 15 kW (51,195 Btu/h) is permitted to be electric  
1943 resistance.

1944 3. Point of use instantaneous electric water heaters serving fixtures no more than  
1945 8 feet of developed pipe length from the water heater are permitted and do not contribute  
1946 to the building combined water heating capacity calculation.

1947 4. Solar thermal, wastewater heat recovery, other approved waste heat recovery,  
1948 water-source heat pump system utilizing waste heat or combinations thereof, are  
1949 permitted to offset all or any portion of the required HPWH capacity where such systems  
1950 comply with this code and the Plumbing Code.

1951 5. Systems meeting the requirements of the Northwest Energy Efficiency  
1952 Alliance (NEEA) Advanced Water Heater Specifications for central service water heating  
1953 systems.

1954 NEW SECTION. SECTION 91. There is hereby added to the chapter established  
1955 in section 68 of this ordinance a new section to read as follows:

1956 Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code  
1957 are supplemented with the following:

1958           **System Design (C404.2.1.1 and C404.2.2.1).** The system proposed to meet  
1959 IECC C404.2.1 and C404.2.2 shall conform to the following design requirements:

1960           1. Primary heat pump system sizing: The system shall include a primary service  
1961 minimum output at 40° F outdoor air temperature that provides sufficient hot water for  
1962 occupancy uses as calculated using the equipment manufacturer's selection criteria or  
1963 another approved methodology. Air source heat pumps shall be sized to deliver no less  
1964 than 50 percent of the calculated demand for hot water production during the peak  
1965 demand period when entering air temperature is 24° F.

1966           **EXCEPTION.** 50 percent sizing at 24° F is not required for heat pumps located  
1967 in a below-grade enclosed parking structure or other ventilated and unconditioned space  
1968 that is not anticipated to fall below 40° F at any time.

1969           2. Primary hot water storage sizing. The system shall provide sufficient hot  
1970 water, as calculated using an approved methodology, to satisfy peak demand period  
1971 requirements.

1972           3. The service water heating system shall be configured to conform to the  
1973 following:

1974           3.1. For single-pass HPWHs, temperature maintenance heating provided for  
1975 reheating return water from the building's heated water circulation system shall be  
1976 physically decoupled from the primary service water heating system storage tank(s) in a  
1977 manner that prevents destratification of the primary system storage tanks. Temperature  
1978 maintenance heating is permitted to be provided by electric resistance or a separate  
1979 dedicated heat pump system; or

Ordinance 19485

---

1980           3.2. For multi-pass HPWHs, recirculated temperature maintenance water is  
1981 permitted to be returned to the primary water storage tanks for reheating.

1982           4. Mixing valve: A thermostatic mixing valve capable of supplying hot water to  
1983 the building at the user temperature set point shall be provided, in compliance with  
1984 requirements of the Uniform Plumbing Code and the HPWH manufacturer's installation  
1985 guidelines. The mixing valve shall be sized and rated to deliver tempered water in a  
1986 range from the minimum flow of the temperature maintenance recirculation system up to  
1987 the maximum demand for the fixtures served.

1988           NEW SECTION. SECTION 92. There is hereby added to the chapter established  
1989 in section 68 of this ordinance a new section to read as follows:

1990           Sections C404.2.1 and C404.2.2 of the International Energy Conservation Code  
1991 are supplemented with the following:

1992           **Supplemental Water Heaters ( C404.2.1.2 and C404.2.2.2).** Total  
1993 supplemental electric resistance water heating equipment shall not have an output  
1994 capacity more than the primary water heating equipment at 40° F entering air  
1995 temperature. Supplemental electric resistance heating is permitted for the following uses:

1996           1. Temperature maintenance of heated-water circulation systems, physically  
1997 separate from the primary service water heating system. Temperature maintenance  
1998 heating capacity shall be no more than the primary water heating capacity at 40° F.

1999           2. Defrost of compressor coils.

2000           3. Heat tracing of piping for freeze protection or for temperature maintenance in  
2001 lieu of recirculation of hot water.

2002           4. Backup or low ambient temperature conditions if:

Ordinance 19485

---

2003           4.1. The supplemental heating capacity is no more than the primary service  
2004 water heating capacity at 40° F;

2005           4.2. During normal operations the supplemental heating is controlled to operate  
2006 only when the entering air temperature at the air-source HPWH is below 40° F, and the  
2007 primary HPWH compressor continues to operate together with the supplemental heating  
2008 when the entering air temperature is between 17° F and 40° F; and

2009           4.3. The primary water heating equipment cannot satisfy the system load due to  
2010 equipment failure or entering air temperature below 40° F.

2011           5. Supplemental heating downstream from a multi-pass HPWH system.

2012           6. Stand-alone electric water heaters serving single zones not served by the  
2013 central water heating system.

2014           NEW SECTION. SECTION 93. There is hereby added to the chapter established  
2015 in section 68 of this ordinance a new section to read as follows:

2016           Section C404.6 of the International Energy Conservation Code is supplemented  
2017 with the following:

2018           **Storage tank insulation(C404.6.1).** Unfired storage tanks used to store service  
2019 hot water at temperatures above 130° F shall be wrapped with an insulating product,  
2020 installed in accordance with the insulation manufacturer's instructions and providing a  
2021 minimum of R-2 additional insulation for every 10° F increase in stored water  
2022 temperature above 130° F. Such additional insulation is also permitted to be integral to  
2023 the tank. The insulation is permitted to be discontinuous at structural supports.

2024           NEW SECTION. SECTION 4. There is hereby added to the chapter established  
2025 in section 68 of this ordinance a new section to read as follows:

2026 Section C404.7.1.2 of the International Energy Conservation Code is  
2027 supplemented with the following:

2028 **Multiple riser systems – thermostatic balancing valve (IECC C404.7.1.2.1).**

2029 For heated water circulation systems that have multiple risers and use a variable flow  
2030 circulation pump, each riser shall have a self-actuating thermostatic balancing valve.

2031 NEW SECTION. SECTION 95. There is hereby added to the chapter established  
2032 in section 68 of this ordinance a new section to read as follows:

2033 Section C404.7.1 of the International Energy Conservation Code is supplemented  
2034 with the following:

2035 **Electronic thermostatic mixing valve (IECC C404.7.1.3).** Where a heated  
2036 water circulation system uses an electronic thermostatic mixing valve (TMV) to control  
2037 the temperature of hot water supplied to the building, the thermostatic mixing valve  
2038 (TMV) shall be configured so that it either reverts closed to fully cold, or maintains its  
2039 current valve position upon power failure or cessation of circulation flow.

2040 NEW SECTION. SECTION 96. There is hereby added to the chapter established  
2041 in section 68 of this ordinance a new section to read as follows:

2042 Section C404.7.3 of the International Energy Conservation Code is supplemented  
2043 with the following:

2044 **Pipe insulation (IECC C404.7.3.1).** For heated water circulation systems, both  
2045 supply and return pipe insulation shall be at minimum one inch thicker than that required  
2046 by IECC Table C403.10.3.

2047 **EXCEPTION:** Where piping is centered within a wall, ceiling or floor framing  
2048 cavity with a depth at least four inches more than the diameter of the pipe and that is

Ordinance 19485

---

2049 completely filled with batt or blown-in insulation, additional pipe insulation is not  
2050 required.

2051 NEW SECTION. SECTION 97. There is hereby added to the chapter established  
2052 in section 68 of this ordinance a new section to read as follows:

2053 Section C404.8 of the International Energy Conservation Code is not adopted and  
2054 the following is substituted:

2055 **Demand recirculation controls (C404.8).** Demand recirculation water systems  
2056 are not permitted.

2057 NEW SECTION. SECTION 98. There is hereby added to the chapter established  
2058 in section 68 of this ordinance a new section to read as follows:

2059 Section C405.2 of the International Energy Conservation Code is not adopted and  
2060 the following is substituted:

2061 **Lighting controls (IECC C405.2).** Lighting systems shall be provided with  
2062 controls that comply with the following:

2063 1. Lighting controls as specified in IECC C405.2.1 through C405.2.7. Any  
2064 contiguous open office area larger than 5,000 square feet shall have its general lighting  
2065 controlled by:

2066 1.1. An enhanced digital lighting control system conforming to the requirements  
2067 of IECC C406.4; or

2068 1.2. LLLC conforming to the requirements in subsection 2. of this section; or

2069 2. LLLC for all areas and lighting controls specified in IECC C405.2.1, C405.2.3  
2070 and C405.2.5. The LLLC luminaires shall be independently configured to:

Ordinance 19485

---

2071 2.1. Monitor occupant activity to brighten or dim lighting when occupied or  
2072 unoccupied, respectively;

2073 2.2. Monitor ambient light, both electric and daylight, and brighten or dim  
2074 artificial light to maintain desired light level. A maximum of 8 fixtures may be  
2075 controlled together to maintain uniform light levels within a single daylight zone; and

2076 2.3. For each control strategy, be capable of configuration and re-configuration  
2077 of performance parameters including bright and dim set points, timeouts, dimming fade  
2078 rates, sensor sensitivity adjustments and wireless zoning configuration.

2079 **EXCEPTIONS:** Except for specific application controls required by IECC  
2080 C405.2.5, lighting controls are not required for the following:

2081 1. Areas designated as security or emergency areas that are required to be  
2082 continuously lighted.

2083 2. Means of egress illumination serving the exit access that does not exceed 0.01  
2084 watts per square foot of building area.

2085 3. Emergency egress lighting that is normally off.

2086 4. Industrial or manufacturing process areas required for production and safety.

2087 NEW SECTION. SECTION 99. There is hereby added to the chapter established  
2088 in section 68 of this ordinance a new section to read as follows:

2089 Table C405.4.2(1) of the International Energy Conservation Code is not adopted  
2090 and the following is substituted:

2091 **Table C405.4.2(1)**

2092 **Interior Lighting Power Allowances—Building Area Method**

## Ordinance 19485

Building Area Type	LPD (w/ft <sup>2</sup> )
Automotive facility	0.58
Convention center	0.58
Court house	0.71
Dining: Bar lounge/leisure	0.71
Dining: Cafeteria/fast food	0.65
Dining: Family	0.64
Dormitory <sup>a,b</sup>	0.41
Exercise center	0.60
Fire station <sup>a</sup>	0.49
Gymnasium	0.68
Health care clinic	0.63
Hospital <sup>a</sup>	0.84
Hotel/motel <sup>a,b</sup>	0.50
Library	0.75
Manufacturing facility	0.74
Motion picture theater	0.40
Multifamily <sup>c</sup>	0.37
Museum	0.50
Office	0.58
Parking garage	0.13
Penitentiary	0.65
Performing arts theater	0.76
Police station	0.60

## Ordinance 19485

---

Post office	0.59
Religious building	0.60
Retail	0.76
School/university	0.63
Sports arena	0.54
Town hall	0.62
Transportation	0.45
Warehouse	0.36
Workshop	0.82

2093 Footnotes:

2094 a. Where sleeping units are excluded from lighting power calculations by  
 2095 application of IECC R404.1, neither the area of the sleeping units nor the wattage of  
 2096 lighting in the sleeping units shall be counted.

2097 b. Where dwelling units are excluded from lighting power calculations by  
 2098 application of IECC R404.1, neither the area of the dwelling units nor the wattage of  
 2099 lighting in the dwelling units shall be counted.

2100 c. Dwelling units are excluded. Neither the area of the dwelling units nor the  
 2101 wattage of lighting in the dwelling units shall be counted.

2102 NEW SECTION. SECTION 100. There is hereby added to the chapter  
 2103 established in section 68 of this ordinance a new section to read as follows:

2104 Table C405.4.2(2) of the International Energy Conservation Code is not adopted  
 2105 and the following is substituted:

2106 **Table C405.4.2(2)**

2107 **Interior Lighting Power Allowances—Space-by-Space Method**

---

## Ordinance 19485

Common Space-by-Space Types <sup>a</sup>	LPD (w/ft <sup>2</sup> )
Atrium - Less than 20 feet in height	0.35
Atrium - 20 to 40 feet in height	0.43
Atrium - Above 40 feet in height	0.54
Audience/seating area - Permanent	
In an auditorium	0.55
In a gymnasium	0.21
In a motion picture theater	0.24
In a penitentiary	0.67
In a performing arts theater	1.04
In a religious building	0.65
In a sports arena	0.30
Otherwise	0.21
Banking activity area	0.55
Breakroom (see Lounge/breakroom)	
Classroom/lecture hall/training room	
In a penitentiary	0.89
Otherwise <sup>m</sup>	0.64
Computer room, data center	0.85
Conference/meeting/multipurpose	0.87
Confinement cell	0.63
Copy/print room	0.28
Corridor	
In a facility for the visually impaired (and not used primarily by the staff) <sup>b</sup>	0.71
In a hospital	0.71
In a manufacturing facility	0.37

## Ordinance 19485

Otherwise <sup>c,f</sup>	0.37
Courtroom <sup>c</sup>	1.08
Dining area	
In a penitentiary	0.42
In a facility for the visually impaired (and not used primarily by the staff) <sup>b</sup>	1.27
In a bar/lounge or leisure dining <sup>n</sup>	0.77
In cafeteria or fast food dining	0.36
In a family dining area <sup>n</sup>	0.54
Otherwise	0.39
Electrical/mechanical	0.39
Emergency vehicle garage	0.47
Food preparation	0.98
Guest room <sup>a,b</sup>	0.37
Laboratory	
In or as a classroom	1.00
Otherwise	1.20
Laundry/washing area	0.48
Loading dock, interior	0.79
Lobby <sup>c</sup>	
In a facility for the visually impaired (and not used primarily by the staff) <sup>b</sup>	1.69
For an elevator	0.59
In a hotel	0.46
In a motion picture theater	0.21
In a performing arts theater	1.13
Otherwise	0.76

Ordinance 19485

Locker room	0.47
Lounge /breakroom <sup>n</sup>	
In a health care facility	0.42
Otherwise	0.53
Office	
Enclosed ≤ 250	0.67
Enclosed ≥ 250	0.59
Open plan	0.55
Parking area, interior	0.14
Pharmacy area	1.66
Restroom	
In a facility for the visually impaired (and not used primarily by the staff) <sup>b</sup>	1.26
Otherwise <sup>n</sup>	0.57
Sales area	0.95
Seating area, general	0.21
Stairwell <sup>n</sup>	0.44
Storage room	
< 50 ft <sup>2</sup>	0.46
50-100 ft <sup>2</sup>	0.34
All of the storage <sup>b</sup>	0.34
Vehicular maintenance	0.54
Workshop	1.13

2108

**Building Specific Space-by-Space Types<sup>a</sup>**

<b>Building Specific Space-by-Space Types<sup>a</sup></b>	<b>LPD<sup>d</sup> (w/ft<sup>2</sup>)</b>
Automotive - (See Vehicular maintenance, above)	

## Ordinance 19485

Convention center - Exhibit space	0.55
Dormitory living quarters <sup>a,b</sup>	0.45
Facility for the visually impaired <sup>b</sup>	
In a chapel (and not used primarily by the staff) <sup>b</sup>	0.70
In a recreation room (and not used primarily by the staff) <sup>b</sup>	1.77
Fire stations - Sleeping quarters <sup>g</sup>	0.21
Gymnasium/fitness center	
In an exercise area	0.83
In a playing area	0.77
Health care facility	
In an exam/treatment room	1.40
In an imaging room	0.94
In a medical supply room	0.62
In a nursery	0.92
In a nurse's station	1.17
In an operating room	2.26
In a patient room <sup>g</sup>	0.68
In a physical therapy room	0.91
In a recovery room	1.25
Library <sup>f</sup>	
In a reading area <sup>a</sup>	0.86
In the stacks	0.99
Manufacturing facility	
In a detailed manufacturing area	0.72
In an equipment room	0.68
In an extra high bay area (more than 50-foot floor-	1.28

## Ordinance 19485

to-ceiling height)	
In a high bay area (25 - 50-foot floor-to-ceiling height)	1.12
In a low bay area (< 25-foot floor-to-ceiling height)	0.77
Museum	
In a general exhibition area	0.28
In a restoration room	0.99
Performing arts theater dressing/fitting room	0.37
Post office - Sorting area	0.69
Religious building	
In a fellowship hall <sup>n</sup>	0.49
In a worship pulpit/choir area <sup>n</sup>	0.77
Retail	
In a dressing/fitting room	0.46
In a mall concourse	0.74
Sports arena—Playing area	
For a Class 1 facility <sup>i</sup>	2.94
For a Class 2 facility <sup>j</sup>	2.01
For a Class 3 facility <sup>k</sup>	1.30
For a Class 4 facility <sup>l</sup>	0.86
Transportation	
In a baggage/carousel area	0.35
In an airport concourse	0.23
At a terminal ticket counter <sup>n</sup>	0.46
Warehouse—Storage area	
For medium to bulky palletized items	0.30
For smaller, hand-carried items	0.62

Ordinance 19485

---

2109 For SI: 1 foot = 304.8 mm, 1 watt per square foot = 11 W/m<sup>2</sup>.

2110 Footnotes:

2111 a. If both a common space type and a building area specific space type are listed,  
2112 the building area specific space type shall apply.

2113 b. A facility for the visually impaired is a facility that is licensed or will be  
2114 licensed by local or state authorities for senior long-term care, adult daycare, senior  
2115 support or people with special visual needs.

2116 c. For spaces in which lighting is specified to be installed in addition to, and  
2117 controlled separately from, the general lighting for the purpose of highlighting art or  
2118 exhibits if the additional lighting power shall not exceed 0.5 W/ft<sup>2</sup> of such spaces.

2119 d. For scientific laboratories, additional lighting power allowance of 0.35 W/ft<sup>2</sup>  
2120 for specialized task work - lighting that provides for small-scale, cognitive or fast  
2121 performance visual tasks, lighting required for operating specialized equipment  
2122 associated with pharmaceutical or laboratorial activities or both.

2123 e. For offices, additional lighting power allowance of 0.20 W/ft<sup>2</sup> for portable  
2124 lighting, which includes under shelf or furniture-mounted supplemental task lighting  
2125 qualifies when controlled by a time clock or an occupancy sensor.

2126 f. For corridors, additional lighting power allowance of 0.25 W/ft<sup>2</sup> display  
2127 lighting and decorative lighting where provided for aesthetic purposes. Decorative  
2128 lighting fixtures in corridors may also provide general lighting. This additional  
2129 allowance is not permitted to be used together with the allowance in footnote c for  
2130 highlighting art or exhibits.

Ordinance 19485

---

2131 g. Where sleeping units are excluded from lighting power calculations by  
2132 application of IECC R404.1, neither the area of the sleeping units nor the wattage of  
2133 lighting in the sleeping units shall be counted.

2134 h. Where dwelling units are excluded from lighting power calculations by  
2135 application of IECC R404.1, neither the area of the dwelling units nor the wattage of  
2136 lighting in the dwelling units shall be counted.

2137 i. Class I facilities consist of professional facilities; and semiprofessional,  
2138 collegiate or club facilities with seating for 5,000 or more spectators.

2139 j. Class II facilities consist of collegiate and semiprofessional facilities with  
2140 seating for fewer than 5,000 spectators; club facilities with seating between 2,000 and  
2141 5,000 spectators; and amateur league and high school facilities with seating for more than  
2142 2,000 spectators.

2143 k. Class III facilities consist of club, amateur league and high school facilities  
2144 with seating for 2,000 or fewer spectators.

2145 l. Class IV facilities consist of elementary school and recreational facilities; and  
2146 amateur league and high school facilities without provisions for spectators.

2147 m. For classrooms, additional lighting power allowance of 4.50 W/lineal foot of  
2148 white or chalk boards for directional lighting dedicated to white or chalk boards.

2149 n. Additional lighting power allowance of 0.30 W/ft<sup>2</sup> for ornamental lighting.  
2150 Qualifying ornamental lighting includes luminaires such as chandeliers, sconces, lanterns,  
2151 neon and cold cathode, light emitting diodes, theatrical projectors, moving lights and  
2152 light color panels when any of those lights are used in a decorative manner that does not

Ordinance 19485

---

2153 serve as display lighting or general lighting. Ornamental lighting shall be controlled  
2154 separately from general lighting.

2155 NEW SECTION. SECTION 101. There is hereby added to the chapter  
2156 established in section 68 of this ordinance a new section to read as follows:

2157 Section C405.5.3 of the International Energy Conservation Code is supplemented  
2158 with the following:

2159 **Exterior lighting power allowance – covered parking garages (IECC**  
2160 **C405.5.3.2).** Covered parking garage lighting is not considered exterior lighting for the  
2161 purposes of this calculation.

2162 NEW SECTION. SECTION 102. There is hereby added to the chapter  
2163 established in section 68 of this ordinance a new section to read as follows:

2164 Section C405.7 of the International Energy Conservation Code is supplemented  
2165 with the following:

2166 **Electric receptacles at dwelling unit gas appliances (C405.7.1).** Where  
2167 dwelling unit appliances are served by natural gas, an electrical receptacle and circuit  
2168 shall be provided at each gas appliance with sufficient capacity to serve a future electric  
2169 appliance in the same location. The receptacle for each gas appliance shall be located  
2170 within 12 inches of the appliance and without obstructions between the appliance and the  
2171 outlet. The receptacles and circuits shall be included in the electrical service load  
2172 calculation and shall meet the following requirements:

2173 1. Each gas range, cooktop or oven location shall be served by a dedicated  
2174 240/208-voltage, 40-amperage receptacle connected to the dwelling unit electric panel

Ordinance 19485

---

2175 with a 3-conductor branch circuit and a minimum included load of 9,600 volt-amps (VA)  
2176 for 240-voltage systems or 8,000 VA for 208-voltage systems.

2177 2. Each gas clothes dryer location shall be served by a dedicated 240/208-  
2178 voltage, 30-amperage receptacle connected to the dwelling unit electric panel with a 3-  
2179 conductor branch circuit and a minimum included load of 5,000 volt-amps (VA).

2180 3. Each gas domestic water heater location shall be served by a dedicated  
2181 240/208 voltage, 30-amperage outlet connected to the dwelling unit electrical panel with  
2182 a 3-conductor branch circuit and a minimum included load of 4,500 volt-amps (VA).

2183 **EXCEPTION:** An electric receptacle is not required for a gas fireplace.

2184 NEW SECTION. SECTION 103. There is hereby added to the chapter  
2185 established in section 68 of this ordinance a new section to read as follows:

2186 Section C406.1 of the International Energy Conservation Code is not adopted and  
2187 the following is substituted:

2188 **Additional energy efficiency credit requirements (C406.1).** New buildings and  
2189 changes in space conditioning, change of occupancy and building additions in accordance  
2190 with IECC Chapter 5 shall comply with sufficient packages from IECC Table C406.1 so  
2191 as to achieve a minimum number of 8 credits. Each area may apply for different  
2192 packages if all areas in the building comply with the requirement for eight credits. Areas  
2193 included in the same permit within mixed-use buildings may demonstrate compliance by  
2194 an area weighted average number of credits by building occupancy achieving a minimum  
2195 number of 8credits.

2196 **EXCEPTIONS:**

## Ordinance 19485

2197 1. Low energy spaces in accordance with IECC C402.1.1.1 and equipment  
 2198 buildings in accordance with IECC C402.1.2 shall comply with sufficient packages from  
 2199 IECC Table C406.1 to achieve a minimum number of 4 credits.

2200 2. Building additions that have less than 1,000 square feet of conditioned floor  
 2201 area shall comply with sufficient packages from IECC Table C406.1 to achieve a  
 2202 minimum number of 4 credits.

2203 **TABLE C406.1**  
 2204 **EFFICIENCY PACKAGE CREDITS**

Code Section	Commercial Building Occupancy					
	Group R-1	Group R-2	Group B	Group E	Group M	All Other
	Additional Efficiency Credits					
1. More efficient HVAC performance in accordance with IECC C406.2	2.0	3.0	3.0	2.0	1.0	2.0
2. Reduced lighting power: Option 1 in accordance with IECC C406.3.1	1.0	1.0	2.0	2.0	3.0	2.0
3. Reduced lighting power: Option 2 in accordance with IECC C406.3.2 <sup>a</sup>	2.0	3.0	4.0	4.0	6.0	4.0
4. Enhanced lighting controls in accordance with IECC C406.4	NA	NA	1.0	1.0	1.0	1.0
5. On-site supply of renewable energy in accordance with IECC C406.5	3.0	3.0	3.0	3.0	3.0	3.0
5.1. 1/3 of renewable energy required by IECC C406.5	1.0	1.0	1.0	1.0	1.0	1.0
5.2. 2/3 of renewable energy required by IECC C406.5	2.0	2.0	2.0	2.0	2.0	2.0
6. Dedicated outdoor air system in	4.0	2.0 <sup>d</sup>	4.0	NA	NA	4.0

## Ordinance 19485

accordance with IECC C406.6 <sup>b</sup>						
7. High performance dedicated outdoor air system in accordance with IECC C406.7	4.0	4.0	4.0	4.0	4.0	4.0
8. High-efficiency service water heating in accordance with IECC C406.8.1 and C406.8.2	NA	NA	NA	NA	NA	NA
9. High performance service water heating in accordance with IECC C406.9	5.0	5.0	3.0 <sup>f</sup>	NA	NA	3.0 <sup>e</sup>
10. Enhanced envelope performance in accordance with IECC C406.10 <sup>c</sup>	3.0	6.0	3.0	3.0	3.0	4.0
11. Reduced air infiltration in accordance with IECC C406.11 <sup>c</sup>	1.0	2.0	1.0	1.0	1.0	1.0

2205 Footnotes:

2206 a. Projects using this option may not use Item 2. of IECC Table C406.1.

2207 b. This option is not available to buildings subject to the prescriptive

2208 requirements of IECC C403.3.5 or C403.6.

2209 c. Buildings or building areas that are exempt from thermal envelope

2210 requirements in accordance with IECC C402.1.1 and C402.1.2 do not qualify for this

2211 package.

2212 d. 4.0 credits, instead of 2.0 credits, may be applied to areas of R-2 occupancy

2213 buildings other than dwelling units, including corridors, lobbies and tenant amenity

2214 spaces, where those areas comply with the requirements for this credit.

2215 e. Buildings, building additions, building area, occupancy type or tenant spaces

2216 with a service hot water load of 10 percent or more of total building energy loads, as

2217 demonstrated through an energy analysis complying with IECC C407, or a minimum

Ordinance 19485

---

2218 service water energy use of 15,000 Btu per square foot per year, as demonstrated through  
2219 an alternate service hot water load calculation method approved by the code official, are  
2220 permitted to apply this credit.

2221 f. In Group B occupancies, the high-performance service water heating credit  
2222 applies only to research and production laboratory spaces, and adjacent circulation  
2223 serving those laboratory spaces, but not to associated office or other space uses.

2224 NEW SECTION. SECTION 104. There is hereby added to the chapter  
2225 established in section 68 of this ordinance a new section to read as follows:

2226 Section C406.1.1 of the International Energy Conservation Code is not adopted  
2227 and the following is substituted:

2228 **Tenant spaces (IECC 406.1.1).** Initial tenant improvements shall comply with  
2229 IECC C406.1.1.1, C406.1.1.2 and sufficient packages from IECC Table C406.1 to  
2230 achieve a minimum number of 8 credits when the space is fully built out. In buildings  
2231 with multiple tenant spaces, each tenant space may apply for different packages if all  
2232 areas in the building comply with the requirement for eight credits when the space is fully  
2233 built-out. This provision only applies to the initial build-out of a tenant space. For the  
2234 purposes of this section, tenant space means any conditioned area within a new building  
2235 that is constructed for first occupancy under a separate permit from the shell and core  
2236 permits.

2237 NEW SECTION. SECTION 105. There is hereby added to the chapter  
2238 established in section 68 of this ordinance a new section to read as follows:

2239 Section C406.2 of the International Energy Conservation Code is not adopted and  
2240 the following is substituted:

---

Ordinance 19485

---

2241           **More efficient HVAC equipment and fan performance (C406.2).** No less than  
2242 90 percent of the total HVAC capacity serving the total conditioned floor area of the  
2243 entire building, building addition, building area, occupancy type or tenant space in  
2244 accordance with IECC C406.1.1, shall comply with IECC C406.2.1 through C406.2.3. In  
2245 addition, systems required to comply with IECC C403.1.1 shall exceed the HVAC TSPR  
2246 of the standard reference design by 10 percent. This credit shall not be used for low  
2247 energy or semi-heated space conditioning categories.

2248           NEW SECTION. SECTION 106. There is hereby added to the chapter  
2249 established in section 68 of this ordinance a new section to read as follows:

2250           Section C406.2.1 of the International Energy Conservation Code is not adopted  
2251 and the following is substituted:

2252           **HVAC system selection (IECC C406.2.1).** Equipment installed shall be types  
2253 that are listed in IECC Tables C403.3.2(1) through C403.3.2(12) or a combination  
2254 thereof. Electric resistance heating shall not meet this requirement. No HVAC systems  
2255 incorporating fossil fuel-fired equipment, or heat from district energy systems that are  
2256 primarily heated by fossil fuel combustion, shall use this credit.

2257           NEW SECTION. SECTION 107. There is hereby added to the chapter  
2258 established in section 68 of this ordinance a new section to read as follows:

2259           Section C406.4 of the International Energy Conservation Code is not adopted and  
2260 the following is substituted:

2261           **Enhanced digital lighting controls (IECC C406.4).** Not less than 90 percent of  
2262 the total installed interior lighting power within the whole building, building addition or  
2263 tenant space shall comply with IECC C406.4.1. Open office areas subject to IECC

Ordinance 19485

---

2264 C405.2(1) shall not take credit for this option. Lighting control functions shall comply  
2265 with IECC C406.1, with control functions commissioned in accordance with IECC  
2266 C408.1 and C408.3.

2267 NEW SECTION. SECTION 108. There is hereby added to the chapter  
2268 established in section 68 of this ordinance a new section to read as follows:

2269 Section C406.5 of the International Energy Conservation Code is not adopted and  
2270 the following is substituted:

2271 **On-site renewable energy (IECC C406.5).** In addition to the renewable energy  
2272 required by IECC C412 and to renewable energy used to comply with any other  
2273 requirement of this code, a whole building, building addition, building area or tenant  
2274 space shall be provided with on-site renewable energy systems with a rated peak  
2275 renewable energy generating capacity of no less than 0.25 watts (or 0.85 Btu/h) per  
2276 square foot of conditioned floor area based on the total conditioned floor area of the  
2277 whole building, building addition, building area or tenant space. The on-site renewable  
2278 energy provided to comply with this option shall be separate from on-site renewable  
2279 energy provided to comply with IECC C406.8 or other requirements of this code, or used  
2280 to qualify for any exception in this code.

2281 NEW SECTION. SECTION 109. There is hereby added to the chapter  
2282 established in section 68 of this ordinance a new section to read as follows:

2283 Section C406.6 of the International Energy Conservation Code is supplemented  
2284 with the following:

2285 **Dedicated outdoor air system (DOAS) – No fossil fuel-fired HVAC may use**  
2286 **this credit (IECC C406.6.1).** HVAC systems incorporating fossil fuel-fired equipment,

Ordinance 19485

---

2287 or heat from district energy systems that are primarily heated by fossil fuel combustion,  
2288 shall not use this credit.

2289 NEW SECTION. SECTION 110. There is hereby added to the chapter  
2290 established in section 68 of this ordinance a new section to read as follows:

2291 Section C406.7 of the International Energy Conservation Code is supplemented  
2292 with the following:

2293 **High performance dedicated outdoor air system (DOAS) – No fossil fuel-**  
2294 **fired HVAC may use this credit (IECC C406.7.1).** HVAC systems incorporating fossil  
2295 fuel-fired equipment, or heat from district energy systems that are primarily heated by  
2296 fossil fuel combustion, shall not use this credit.

2297 NEW SECTION. SECTION 111. There is hereby added to the chapter  
2298 established in section 68 of this ordinance a new section to read as follows:

2299 Section C406.8 of the International Energy Conservation Code is not adopted, and  
2300 the following is substituted:

2301 **Reduced energy use in service water heating (IECC C406.8).** Buildings with  
2302 service hot water heating equipment that serves the whole building, building addition or  
2303 tenant space shall comply with IECC C406.8.1 and C406.8.2. Service water heating  
2304 systems incorporating fossil fuel-fired equipment, or heat from district energy systems  
2305 that are primarily heated by fossil fuel combustion, shall not use this credit. On-site  
2306 renewable energy water-heating systems proposed for this credit shall only qualify where  
2307 those systems are in addition to the renewable energy required by IECC C412 and any  
2308 renewable energy used to comply with other requirements of this code.

Ordinance 19485

---

2309            NEW SECTION. SECTION 112. There is hereby added to the chapter

2310 established in section 68 of this ordinance a new section to read as follows:

2311            Section C406.9 of the International Energy Conservation Code is not adopted, and  
2312 the following is substituted:

2313            **High performance service water heating in hotel and multifamily buildings.**  
2314 **(IECC C406.9).** For a whole building, building area, occupancy type, building addition  
2315 or tenant space with not less than 90 percent of the conditioned floor area being Group R-  
2316 1 or R-2 occupancy, not less than 90 percent of the annual building service hot water  
2317 energy use shall be provided by a heat pump system meeting the requirements of IECC  
2318 C404.2.3 and:

2319            1. The refrigerant used in the heat pump system shall have a global warming  
2320 potential (GWP) no more than 675.

2321            2. Electric resistance heating capacity shall not be provided, except for:

2322            2.1. Circulating system temperature maintenance and heat tracing of service hot  
2323 water supply and return piping; or

2324            2.2. On-demand electric resistance water heaters for hand washing facilities are  
2325 allowed in public toilet rooms.

2326            NEW SECTION. SECTION 113. There is hereby added to the chapter

2327 established in section 68 of this ordinance a new section to read as follows:

2328            Section C406.10 of the International Energy Conservation Code is not adopted,  
2329 and the following is substituted:

2330            **Enhanced envelope performance. (IECC C406.10).** The Proposed Total UA of  
2331 the thermal envelope of the whole building, building area, occupancy type or building

Ordinance 19485

---

2332 addition shall be 15 percent lower than the Allowable Total UA for an area of identical  
2333 configuration and fenestration area in accordance with IECC C402.1.5 and Equation 4-2.

2334 NEW SECTION. SECTION 114. There is hereby added to the chapter  
2335 established in section 68 of this ordinance a new section to read as follows:

2336 Section C406.12 of the International Energy Conservation Code is not adopted.

2337 NEW SECTION. SECTION 115. There is hereby added to the chapter  
2338 established in section 68 of this ordinance a new section to read as follows:

2339 Section C407.3 of the International Energy Conservation Code is not adopted and  
2340 the following is substituted:

2341 **Performance-based compliance (IECC C407.3).** Compliance with this section  
2342 requires compliance with ASHRAE Standard 90.1 Appendix G, Performance Rating  
2343 Method, in accordance with ASHRAE Standard 90.1 Section 4.2.1 with the following  
2344 modifications:

2345 1. The mandatory requirements of ASHRAE Standard 90.1 Section G1.2.1a are  
2346 not required to be met.

2347 2. The reduction in annual carbon emissions of the proposed building design  
2348 associated with on-site renewable energy shall not be more than 3 percent of the total  
2349 carbon emissions of the baseline building design. This limitation only applies to on-site  
2350 renewable energy provided in excess of the renewable energy required by IECC C412.

2351 2.1. The equation  $PCI + [(PBP_{nre} - PBP)/BBP] - 0.05 < PCI$  in ASHRAE 90.1  
2352 Section 4.2.1.1 shall be modified to read  $PCI + [(PBP_{nre} - PBP)/BBP] - 0.03 < PCI$ .

Ordinance 19485

---

2353           2.2. "PBPnre" means the proposed building performance without credit for  
2354 reduced annual energy emissions from on-site renewable energy generation system  
2355 capacity in excess of that installed to satisfy the requirements of IECC C412.

2356           3. References to energy cost in ASHRAE Standard 90.1 Section 4.2.1.1 and  
2357 ASHRAE Standard 90.1 Appendix G shall be replaced by carbon emissions calculated by  
2358 multiplying site energy consumption by the carbon emission factor from IECC Table  
2359 C407.3(1).

2360           4. The building performance factors in ASHRAE Standard 90.1 Table C4.2.1.1  
2361 shall be replaced with those in IECC Table C407.3(2).

2362           5. Schedules and plug and process loads shall be modeled using the default  
2363 values listed in IECC Appendix B or in the ASHRAE Standard 90.1 User's Manual and  
2364 shall be assumed to be identical in the proposed design and baseline building design.

2365           **EXCEPTION:** Alternative schedules and plug and process loads shall be  
2366 permitted where approved by the code official.

2367           6. ASHRAE Standard 90.1 Section G1.3.2.d documentation requirements shall  
2368 be replaced by a list showing compliance with the mandatory provisions of IECC Table  
2369 C407.2.

2370           7. ASHRAE Standard 90.1 Section G1.3.2.e documentation requirements shall be  
2371 replaced by a list of proposed design aspects that are less stringent than the prescriptive  
2372 requirements of the IECC.

2373           8. References to undesigned future building components in the Proposed  
2374 Building Performance column of ASHRAE Standard 90.1 Table G3.1 shall be modified

Ordinance 19485

---

2375 to reference the corresponding IECC sections in lieu of ASHRAE Standard 90.1

2376 requirements, in the following ASHRAE Standard 90.1 table sections:

2377 8.1. Table G3.1.1.c.

2378 8.2. Table G3.1.6.c.

2379 8.3. Table G3.1.11.c.

2380 8.4. Table G3.1.12.b.

2381 9. HVAC systems, subclauses c and d of ASHRAE Standard 90.1 Table G3.1,

2382 shall meet the following requirements:

2383 9.1. For yet-to-be-designed systems in office, retail, library, education and

2384 multifamily buildings and occupancies subject to the TSPR requirements of IECC

2385 C403.1.1, the system type and efficiency parameters shall meet but not exceed those

2386 shown in IECC Appendix D, Table D602.11 Standard Reference Design HVAC Systems.

2387 9.2. For all other buildings and occupancies, the system type shall be the same

2388 as the system modeled in the baseline design and shall comply with, but not exceed,

2389 IECC C403 requirements in lieu of ASHRAE Standard 90.1.

2390 9.3. For HVAC systems serving future tenant spaces, where the current building

2391 permit applies to only a portion of an HVAC system, and future components will receive

2392 HVAC services from systems included in the current building permit, those future

2393 components shall be modeled as the type required to complete the HVAC system

2394 portions under the current permit and shall meet, but not exceed, IECC C403

2395 requirements.

2396 NEW SECTION. SECTION 116. There is hereby added to the chapter

2397 established in section 68 of this ordinance a new section to read as follows:

Ordinance 19485

---

2398 Section C407.3.1 of the International Energy Conservation Code is not adopted  
 2399 and the following is substituted:

2400 **Limits on substandard building envelopes (IECC C407.3.1).** The Proposed  
 2401 Total UA of the proposed building shall be no more than 10 percent higher than the  
 2402 Allowed Total UA as defined in IECC C402.1.5. Where either IECC C402.4.1.1.1 or  
 2403 C402.4.1.1.2 is used to establish the maximum allowable fenestration area for  
 2404 compliance with this section, all of the requirements of the selected section shall be met.

2405 NEW SECTION. SECTION 117. There is hereby added to the chapter  
 2406 established in section 68 of this ordinance a new section to read as follows:

2407 Table C407.3(2) of the International Energy Conservation Code is not adopted  
 2408 and the following is substituted:

2409 **Table C407.3(2)**

2410 **Building Performance Factors (BPF) to be used for Compliance with Section C407.3**

Building Area Type	Building Performance Factor
Multifamily	0.52
Healthcare/hospital	0.49
Hotel/motel	0.58
Office	0.51
Restaurant	0.63
Retail	0.43
School	0.32
Warehouse	0.43
All others	0.49

2411 NEW SECTION. SECTION 118. There is hereby added to the chapter  
 2412 established in section 68 of this ordinance a new section to read as follows:

---

Ordinance 19485

---

2413 Section C411.1 of the International Energy Conservation Code is not adopted and  
2414 the following is substituted:

2415 **Solar readiness – general (IECC C411.1).** In addition to the requirements of  
2416 IECC C412, a solar zone shall be provided on buildings that are 20 stories or less in  
2417 height above grade plane. The solar zone shall be located on the roof of the building or  
2418 on another structure elsewhere on the site. The solar zone shall be in accordance with  
2419 IECC C411.2 through C411.8 and the International Fire Code.

2420 **EXCEPTION:** A solar zone is not required where the solar exposure of the  
2421 building's roof area is less than 75 percent of that of an unshaded area, as defined in  
2422 IECC C411.5, in the same location, as measured by the following:

- 2423 1. Incident solar radiation expressed in kWh/ft<sup>2</sup>-yr using typical meteorological  
2424 year (TMY) data;
- 2425 2. Annual sunlight exposure expressed in cumulative hours per year using typical  
2426 meteorological year (TMY) data; or
- 2427 3. Shadow studies indicating that the roof area is more than 25 percent in  
2428 shadow, on September 21 at 10 a.m., 11 a.m., 12 p.m., 1 p.m. and 2 p.m. solar time.

2429 NEW SECTION. SECTION 119. There is hereby added to the chapter  
2430 established in section 68 of this ordinance a new section to read as follows:

2431 Section C411.2 of the International Energy Conservation Code is supplemented  
2432 with the following:

2433 **Minimum area – mechanical equipment (C411.2.1).** When calculating the  
2434 minimum area of the solar zone as a percentage roof area, areas that will be occupied by  
2435 mechanical equipment shall be subtracted from the horizontally-projected gross roof area.

Ordinance 19485

---

2436            NEW SECTION. SECTION 120. There is hereby added to the chapter  
2437 established in section 68 of this ordinance a new section to read as follows:

2438            Section C411.8 of the International Energy Conservation Code is supplemented  
2439 with the following:

2440            **Photovoltaic interconnection – roof penetration (IECC C411.8.1).** A  
2441 minimum 2-inch diameter roof penetration sleeve shall be provided, with threaded caps  
2442 above and below the roof deck and minimum R-10 insulation wrapping the lower portion,  
2443 within each 2,500 square foot section of the required solar zone area.

2444            NEW SECTION. SECTION 121. There is hereby added to the chapter  
2445 established in section 68 of this ordinance a new section to read as follows:

2446            Chapter 4 of the International Energy Conservation Code is supplemented with  
2447 the following:

2448            **On-site renewable energy generation systems (IECC C412.1).** Any new  
2449 building and any addition larger than 5,000 square feet of gross conditioned floor area  
2450 shall include on-site a renewable energy generation system consisting of not less than  
2451 0.25 watts rated peak photovoltaic energy production per square foot of conditioned  
2452 space.

2453            **EXCEPTIONS:**

2454            1. Increased additional energy credits. Where 3.0 additional energy credits from  
2455 IECC Table C406.1 are provided in addition to those required by other sections of this  
2456 code, the on-site renewable energy generation system is not required.

Ordinance 19485

---

2457           1.1. Where 1.0 additional energy credits is provided in addition to those  
2458 required by other sections of this code, applicants may reduce the size of the on-site  
2459 renewable energy generation system by 1/3.

2460           1.2. Where 2.0 additional energy credits are provided in addition to those  
2461 required by other sections of this code, applicants may reduce the size of the on-site  
2462 renewable energy generation system by 2/3.

2463           1.3 Where approved by the building code official, interpolation between  
2464 exceptions 1, 1.1 and 1.2 is permitted.

2465           2. Reduced building performance factor. For projects utilizing the IECC C407  
2466 Total Building Performance compliance path, the on-site renewable energy generation  
2467 system is not required where the building performance factor (BPF) is at least than 3  
2468 percent lower than the maximum building performance factor (BPF) permitted  
2469 cumulatively by all other sections of the IECC.

2470           2.1. Where the building performance factor (BPF) is not less than 1 percent  
2471 lower than the building performance factor (BPF) required cumulatively by other sections  
2472 of the IECC, the size of the on-site renewable energy generation system may be reduced  
2473 by 1/3.

2474           2.2. Where the building performance factor (BPF) is not less than 2 percent  
2475 lower than the building performance factor (BPF) required cumulatively by other sections  
2476 of the IECC, the size of the on-site renewable energy generation system may be reduced  
2477 by 2/3.

2478           3. Transfer to an affordable housing project. The department may waive all or  
2479 part of the required on-site renewable energy generation system if the applicant

Ordinance 19485

---

2480 constructs a renewable energy generation system on an affordable housing project in  
2481 unincorporated King County.

2482 3.1. The size of the system built on the affordable housing project shall be:

2483 3.1.1. 50 percent of the size of the system not being built on site if located on  
2484 an existing affordable housing project; or

2485 3.1.2. 75 percent of the size of the system not being built on site if located on a  
2486 new construction affordable housing project.

2487 3.2. Documentation demonstrating that the renewable energy generation system  
2488 has been installed on the affordable housing project site, the system is fully operational,  
2489 and ownership has been transferred to the owner of the affordable housing project, shall  
2490 be submitted before issuance of the certificate of occupancy.

2491 3.3. Such a transfer shall only be available if an affordable housing project is  
2492 available to accept the renewable energy system. There is no assurance that such a project  
2493 location will be available. It is the applicant's responsibility to locate and coordinate with  
2494 the affordable housing project, and to ensure installation is completed in a timely manner.

2495 4. Transfer to a Washington state agency program. Where approved by the  
2496 department, all or part of the required renewable energy generation system may be  
2497 replaced by a contribution of \$2.50 for each required watt of installed capacity to a solar  
2498 energy fund managed by a Washington state agency that will provide solar energy  
2499 installations for affordable housing projects. Documentation demonstrating that the  
2500 contribution has been received by the state agency shall be submitted before issuance of  
2501 the certificate of occupancy.

Ordinance 19485

---

2502           4.1. Such a transfer shall only be available if a solar energy fund for affordable  
2503 housing is created by the Housing Trust Fund, Washington state Housing Finance  
2504 Commission, or another state agency program for which the project is qualified to  
2505 participate. There is no assurance that such a program will be available.

2506           5. The building official may approve an alternative method to meet this  
2507 requirement if the applicant's engineer or architect can demonstrate, to the satisfaction of  
2508 the building official, that the alternative method will provide equal or greater solar  
2509 performance as required by this section.

2510           6. Affordable housing. The on-site renewable energy generation system is not  
2511 required for affordable housing projects.

2512           NEW SECTION. SECTION 122. There is hereby added to the chapter  
2513 established in section 68 of this ordinance a new section to read as follows:

2514           Section 503.4 of the International Energy Conservation Code is supplemented  
2515 with the following:

2516           **New and replacement HVAC heating system equipment (IECC C503.4.6).**

2517 For a substantial improvement as defined in K.C.C. chapter 21A.06, or where a building's  
2518 central HVAC heating system equipment is augmented or replaced, the building shall  
2519 comply with IECC C403.1.4. For the purposes of this section, central HVAC heating  
2520 system means a heating system that provides heating to multiple spaces or multiple  
2521 dwelling or sleeping units, as opposed to a distributed heating system such as baseboard  
2522 heating or a Packaged Terminal Heat Pump (PTHP) that provides heating to only a single  
2523 space. A central heating system may include multiple pieces of heating equipment.

2524           **EXCEPTION:** HVAC replacements:

Ordinance 19485

---

- 2525           1. Where only one heating appliance is failing and is replaced by another having  
2526 the same or lesser heating capacity and the same or higher efficiency;  
2527           2. No other alterations are made to the central HVAC system; and  
2528           3. Where this exception has not been used within the same building in the  
2529 previous two year period.

2530           NEW SECTION. SECTION 123. There is hereby added to the chapter  
2531 established in section 68 of this ordinance a new section to read as follows:

2532           Section 505.1 of the International Energy Conservation Code is supplemented  
2533 with the following:

2534           **Change of occupancy or Use – General – energy star equipment (IECC**  
2535 **505.1.1).** Where the building or space is altered to become a bakery, commercial kitchen  
2536 or commercial laundry, and the proposed design uses only all-electric Energy Star-rated  
2537 process equipment and code compliant all-electric HVAC equipment, improvements to  
2538 the building envelope immediately adjoining the spaces containing that use shall not be  
2539 required. For the purposes of this exception, fossil fuel-combusting equipment shall not  
2540 be used or installed within the building or space undergoing the change of occupancy.

2541           SECTION 124. Ordinance 8766, Section 6, as amended, and K.C.C. 16.08.050  
2542 are hereby amended to read as follows:

2543           Approved numbers or addresses shall be provided for all new and existing  
2544 buildings in such a position as to be plainly visible and legible from the road fronting the  
2545 property and in conformance with this section.

2546           A. The owner, occupant((;)) or renter of any addressed building or other structure  
2547 shall maintain the address numbers in a conspicuous place over or near the principal

## Ordinance 19485

2548 entrance or entrances. If ~~((said))~~ the entrance~~((s))~~ cannot be easily seen from the nearest  
 2549 adjoining ~~((street))~~ road, the address numbers shall be placed in such other conspicuous  
 2550 place on ~~((said))~~ the building or structure as is necessary for visually locating such address  
 2551 numbers from the nearest adjoining ~~((street))~~ road.

2552 B. If the addressed building or structure cannot be easily seen ~~((or is greater than~~  
 2553 ~~50 feet))~~ from the nearest adjoining ~~((street))~~ road, the address numbers shall be placed on a  
 2554 portion of the site that is clearly visible ~~((and no greater than 20 feet))~~ from the ~~((street))~~  
 2555 road.

2556 C. The address numbers shall:

- 2557 1. ~~((b))~~ Be easily legible figures~~((s))~~;
- 2558 2. Comply with the following size requirements, unless otherwise stipulated in  
 2559 this section:

<u>Distance from Right of Way</u>	<u>Minimum Letter Size</u>
<u>0-25 feet</u>	<u>3 inches</u>
<u>26-50 feet</u>	<u>4 inches</u>
<u>51-100 feet</u>	<u>6 inches</u>
<u>101-150 feet</u>	<u>8 inches</u>
<u>151-200 feet</u>	<u>10 inches</u>
<u>Over 200 feet</u>	<u>12 inches</u>

2560 3. Be not ~~((less than three inches high if a residential use or individual multi-~~  
 2561 ~~family unit, nor))~~ less than five inches high ~~((if))~~ for a commercial use~~((Numbers shall))~~;

2562 4. ~~((e))~~ Contrast with the color of the structure upon which they are placed~~((s))~~;

2563 and

Ordinance 19485

---

2564            5. ~~((shall e))~~ Either be illuminated during periods of darkness((;)) or be reflective,  
2565 so they are easily seen at night.

2566            SECTION 125. Ordinance 12560, Section 110, as amended, and K.C.C.  
2567 16.14.110 are hereby amended to read as follows:

2568            Section ~~((106.2))~~ 107 of the International Property Maintenance Code is  
2569 supplemented with the following:

2570            ~~((Substandard buildings))~~ **Notices and Orders (IPMC ~~((106.2))~~ 107)**. All  
2571 buildings, portions thereof or premises which are determined by the code official not to  
2572 be in compliance with this Code are hereby declared to be a public nuisance and shall be  
2573 abated by repair, rehabilitation, demolition((;)) or removal in accordance with the  
2574 procedures specified in K.C.C. Title 23.

2575            SECTION 126. Ordinance 14914, Section 359, and K.C.C. 16.14.200 are hereby  
2576 amended to read as follows:

2577            Section 108.2 of the International Property Maintenance Code is not adopted and  
2578 the following is substituted:

2579            **Closing of vacant structures (IPMC 108.2)**. If the structure is vacant and unfit  
2580 for human habitation and occupancy, and is not in danger of structural collapse, the code  
2581 official is authorized to post a placard of condemnation on the premises and order the  
2582 structure closed up so as not to be an attractive nuisance. Upon failure of the owner or  
2583 the owner's agent to close up the premises within the time specified enforcement action  
2584 may be taken using the procedures of K.C.C. Title 23.

2585            SECTION 127. Ordinance 14914, Section 367, and K.C.C. 16.14.250 are hereby  
2586 amended to read as follows:

Ordinance 19485

---

2587 Section 109.1 of the International Property Maintenance Code is not adopted and  
 2588 the following is substituted:

2589 **Imminent danger (IPMC 109.1).** ~~((When, in the opinion of the code official,~~  
 2590 ~~there is imminent danger of failure or collapse of a building or structure which endangers~~  
 2591 ~~life, or when any structure or part of a structure has fallen and life is endangered by the~~  
 2592 ~~occupation of the structure, or when there is actual or potential danger to the building~~  
 2593 ~~occupants or those in the proximity of any structure because of explosives, explosive~~  
 2594 ~~fumes or vapors or the presence of toxic fumes, gases or materials, or operation of~~  
 2595 ~~defective or dangerous equipment, t))~~The code official is hereby authorized and  
 2596 empowered to order and require the occupants to vacate the premises of a building or  
 2597 structure ((forthwith)) immediately when, in the opinion of the code official:

2598 1. there is imminent danger of failure or collapse of a building or structure which  
 2599 endangers life;

2600 2. any structure or part of a structure has fallen and life is endangered by the  
 2601 occupation of the structure; or

2602 3. there is actual or potential danger to the building occupants or those in the  
 2603 proximity of any structure because of:

2604 3.1. explosives, explosive fumes or vapors;

2605 3.2. the presence of toxic fumes, gases or materials; or

2606 3.3. operation of defective or dangerous equipment.

2607 The code official shall ~~((cause to be posted))~~ post at each entrance to such  
 2608 structure or premises a notice as provided in ~~((Section))~~ IPMC108.4. ~~((It shall be~~  
 2609 ~~unlawful for any))~~ No person ~~((to))~~ shall enter such structure except for the purpose of

Ordinance 19485

---

2610 securing the structure or premises, making the required repairs, removing the hazardous  
2611 condition or of demolishing the same.

2612 SECTION 128. Ordinance 12560, Section 124, as amended, and K.C.C.  
2613 16.14.410 are hereby amended to read as follows:

2614 Section ~~((410.1))~~ 110 of the International Property Maintenance Code is not  
2615 adopted and is substituted with the following:

2616 **General (IPMC ~~((410.1))~~ 110).** Demolition shall be in accordance with K.C.C.  
2617 Title 23.

2618 SECTION 129. Ordinance 12560, Section 121, as amended, and K.C.C.  
2619 16.14.430 are hereby amended to read as follows:

2620 Section ~~((411.1))~~ 111 of the International Property Maintenance Code is not  
2621 adopted and is substituted with the following:

2622 ~~((Application for))~~ **Means of appeal (IPMC ~~((411.1))~~ 111).** Appeals shall be in  
2623 accordance with K.C.C. Titles 20 and 23.

2624 NEW SECTION. SECTION 130. There is hereby added to K.C.C. chapter 16.14  
2625 a new section to read as follows:

2626 Section 112 of the International Property Maintenance Code is not adopted and  
2627 the following is substituted:

2628 **Stop work order (IPMC 112).** Stop work orders shall be in accordance with  
2629 K.C.C. Title 23.

2630 SECTION 131. Ordinance 14111, Section 141, and K.C.C. 16.14.460 are hereby  
2631 amended to read as follows:

Ordinance 19485

---

2632 Section ~~((302.4))~~ 302 of the International Property Maintenance Code is ~~((not~~  
2633 ~~adopted and the following is substituted))~~ supplemented with the following:

2634 **Fire hazard (IPMC ~~((302.4))~~ 302.10).** Any building or portion thereof, device,  
2635 apparatus, equipment, combustible waste, or vegetation that, in the opinion of the Fire  
2636 Marshal or the Code Official, is in such a condition as to cause a fire or explosion or  
2637 provide a ready fuel to augment the spread and intensity of fire or explosion arising from  
2638 any cause shall be considered substandard. Upon failure of the owner or agent having  
2639 charge of a property to cut and destroy weeds after service of a notice violation, they  
2640 shall be subject to prosecution in accordance with the provisions of K.C.C. Title 23.

2641 SECTION 132. Ordinance 14914, Section 407, and K.C.C. 16.14.480 are hereby  
2642 amended to read as follows:

2643 Section 303.2 of the International Property Maintenance Code is not adopted and  
2644 the following is substituted:

2645 **Enclosures (IPMC 303.2).** ~~((Private swimming pools, hot tubs and spas,~~  
2646 ~~containing water more than twenty-four inches (610 mm) in depth shall be completely~~  
2647 ~~surrounded by a fence or barrier at least sixty inches (1,524 mm) in height above the~~  
2648 ~~finished ground level measured on the side of the barrier away from the pool. Gates and~~  
2649 ~~doors in such areas shall be self-closing and self-latching. Where the self-latching~~  
2650 ~~devices is less than fifty-four inches (1,372 mm) above the bottom of the gate, the release~~  
2651 ~~mechanism shall be located on the pool side of the gate. Self-closing and self-latching~~  
2652 ~~gates shall be maintained such that the gate will positively close and latch when released~~  
2653 ~~from an open position of six inches (152 mm) from the gatepost. No existing g pool~~  
2654 ~~enclosure shall be removed, replaced or changed in a manner that reduces its~~

Ordinance 19485

---

2655 ~~effectiveness as a safety barrier.))~~ Swimming pool enclosures shall comply with the  
 2656 International Building Code Section 3109.

2657 SECTION 133. Ordinance 14914, Section 408, and K.C.C. 16.14.490 are hereby  
 2658 amended to read as follows:

2659 Section 304.3 of the International Property Maintenance Code is not adopted and  
 2660 the following is substituted:

2661 **Premises identification. (IPMC 304.3).** Approved numbers or addresses shall  
 2662 be provided for all new buildings in such a position as to be plainly visible and legible  
 2663 from the ~~((street or))~~ road fronting the property ~~((as specified by the department))~~ as  
 2664 required by K.C.C. 16.08.050.

2665 SECTION 134. Ordinance 6746, Section 5, as amended, and K.C.C. 16.32.030  
 2666 are hereby amended to read as follows:

2667 A. Chapters 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, ~~((14))~~ 15, ~~16~~~~((7))~~ and 17 and  
 2668 ~~((Appendix))~~ Appendices A (Recommended Rules for Sizing the Water Supply System),  
 2669 B (Explanatory Notes on Combination Waste and Vent Systems), ~~((and))~~ I (Installation  
 2670 Standard for PEX Tubing Systems for Hot- and Cold-Water Distribution) and M (Peak  
 2671 Water Demand Calculator) of the Uniform Plumbing Code, ~~((2012))~~ 2018 Edition, as

2672 published by or jointly with the International Association of Plumbing and Mechanical  
 2673 Officials and as amended in chapter 51-56 WAC~~((7))~~ and the gas piping provisions of the  
 2674 International Fuel Gas Code, ~~((2012))~~ 2018 Edition, the National Fuel Gas Code,  
 2675 ~~((2012))~~ 2018 Edition ~~((2012))~~ 2018 ANSI Z223.1/NFPA 54), the Liquefied Petroleum  
 2676 Gas Code, ~~((2011))~~ 2017 Edition ~~((2011))~~ 2017 NFPA 58) as amended in chapter 51-52  
 2677 WAC~~((7))~~ and International Residential Code, ~~((2012))~~ 2018 Edition, as amended in

---

Ordinance 19485

---

2678 chapter 51-51 WAC, are hereby adopted and together with King County amendments,  
2679 additions, exceptions and deletions adopted in this chapter are adopted as the King  
2680 County Plumbing Code and may be cited as such and referred to in this chapter as "this  
2681 code." This code shall have precedence over documents adopted by reference.

2682 B. This code also may be further clarified and implemented by administrative  
2683 rules adopted in accordance with K.C.C. chapter 2.98.

2684 NEW SECTION. SECTION 135. There is hereby added to K.C.C. chapter 16.32  
2685 a new section to read as follows:

2686 Section 102.1 of the Uniform Plumbing Code is not adopted and the following is  
2687 substituted:

2688 **Conflicts between codes (UPC 102.1).** In instances where this code, applicable  
2689 standards or the manufacturer's installation instructions conflict, the more stringent  
2690 provisions shall prevail. Where there is a conflict between a general requirement and a  
2691 specific requirement, the specific requirement shall prevail.

2692 NEW SECTION. SECTION 136. There is hereby added to K.C.C. chapter 16.32  
2693 a new section to read as follows:

2694 Section 104.3.2 of the Uniform Plumbing Code is not adopted and the following  
2695 is substituted:

2696 **Plan Review Fees (UPC 104.3.2).** Where a plan or other data is required to be  
2697 submitted in accordance with UPC 104.3.1, a plan review fee shall be charged at a rate  
2698 equal to the cost of performing the service in addition to the permit fees specified in  
2699 K.C.C. 16.32.080.



## Ordinance 19485

---

One device or assembly	<del>((130.00))</del> <u>\$140.00</u>
Two to three devices or assemblies	\$210.00
Four to six devices or assemblies	\$298.00
Seven to ten devices or assemblies	\$333.00
More than ten devices or assemblies	\$333.00 base fee for ten devices or assemblies plus \$8.00 for each additional device or assembly

Gas piping permit fees for outlets:

<u>One to four outlets</u>	<u>\$140.00</u>
<u>Five to six outlets</u>	<u>\$175.00</u>
<u>Seven to nine outlets</u>	<u>\$210.00</u>
<u>Ten outlets</u>	<u>\$245.00</u>
<u>More than ten outlets</u>	<u>\$245.00 base fee for</u> <u>ten outlets plus</u> <u>\$10.00 for each</u> <u>additional outlet</u>

- 2709        ~~((B-))~~ For the purpose of this section~~((:))~~:
- 2710        1. "fixture" means an appliance that is connected with water, drain or vent pipe,
- 2711        but a sillcock faucet or hose bibb is not considered a fixture. A sanitary plumbing outlet
- 2712        on or to which a plumbing fixture or appliance may be set or attached is a fixture; and

Ordinance 19485

---

2713            2. "outlet" means the point at which a fuel-gas appliance connects to the gas  
2714 pipng system, or a medical gas or medical vacuum connection is installed.

2715            SECTION 138. Ordinance 15802, Section 122, and K.C.C. 16.32.195 are hereby  
2716 amended to read as follows:

2717            Section ~~((402.1))~~ 103.1 of the Uniform Plumbing Code ~~((not adopted and the~~  
2718 ~~following is substituted))~~ is supplemented with the following:

2719            **Authority Having Jurisdiction (UPC ~~((402.1))~~ 103.1.1).** The authority having  
2720 jurisdiction is the director of ~~((the Seattle King County department of))~~ public health -  
2721 Seattle & King County or the director's authorized representative, who shall administer  
2722 and enforce the provisions of this code~~((:)),~~ render interpretations of this code and make  
2723 and enforce such rules and regulations, in accordance with K.C.C. chapters 2.98 and  
2724 2.100.

2725            SECTION 139. Ordinance 15802, Section 123, and K.C.C. 16.32.205 are hereby  
2726 amended to read as follows:

2727            Section ~~((402.2.2))~~ 103.4 of the Uniform Plumbing Code is not adopted and the  
2728 following is substituted:

2729            **Right of Entry (UPC ~~((402.2.2))~~ 103.4).** Upon presentation of proper  
2730 credentials, the authority having jurisdiction may, with the consent of the occupant or  
2731 with the consent of the owner of an unoccupied building or premises, or in accordance  
2732 with a lawfully issued search warrant, enter at reasonable times a building or premises to  
2733 perform a duty imposed upon the authority having jurisdiction by this code~~((, provided~~  
2734 ~~that t)).~~ The authority having jurisdiction shall make entry only if such entry is consistent  
2735 with the constitutions and laws of the United States and the state of Washington.

Ordinance 19485

---

2736            **SECTION 140.** Ordinance 15802, Section 124, as amended, and K.C.C.

2737            16.32.215 are hereby amended to read as follows:

2738            Section ~~((402.2.3))~~ 106.4 of the Uniform Plumbing Code is not adopted and the  
2739            following is substituted:

2740            **Stop Work Order and Correction Order (UPC ~~((402.2.3))~~ 106.4).**

2741            A. Whenever any work is being done contrary to the provisions of this code, the  
2742            authority having jurisdiction may order the work stopped by notice in writing served on  
2743            any persons engaged in the doing or causing such work to be done, and any such persons  
2744            shall ~~((forthwith))~~ immediately stop work until authorized by the authority having  
2745            jurisdiction to proceed with the work. Service of a stop work order shall be made by one  
2746            or more of the following methods:

2747            Personal service: Personal service of a stop work order may be made on the  
2748            property owner ~~((and/))~~ or on any person doing or causing the work to be done, or by  
2749            leaving the stop work order at the house of usual abode of the person being served ~~((,~~  
2750            ~~provided that))~~ if the stop work order is left with a person of suitable age and discretion  
2751            who resides there.

2752            Service by posting on the property: Service directed to the property owner  
2753            ~~((and/))~~ or person engaged in doing or causing such work to be done may be made by  
2754            posting the stop work order in a conspicuous place on the property where the work is  
2755            occurring, and concurrently mailing notice as ~~((provided for below))~~ required by this  
2756            subsection, if a mailing address is available.

2757            Service by mail: Service by mail may be made for a stop work order by mailing  
2758            two copies, postage prepaid, one by ordinary first class mail and the other by certified

Ordinance 19485

---

2759 mail, to the property owner and to any person engaged in doing or causing such work to  
2760 be done, at their last known addresses, at the address of the location of the work being  
2761 done, or at the address of the place of business of the person being served. The taxpayer's  
2762 address as shown on the tax records of the county shall be deemed to be the proper  
2763 address for the purpose of mailing such notice to the person being served. Service by  
2764 mail shall be presumed effective upon the third business day following the day upon  
2765 which the stop work order was placed in the mail.

2766 B. Whenever any work is being done contrary to the provisions of this code, the  
2767 authority having jurisdiction may order the violations corrected without ordering all work  
2768 stopped by issuing a correction notice that identifies the violation. The correction notice  
2769 may require an inspection before further construction or at the time of the next required  
2770 inspection. The correction notice shall be served or posted in the same manner as a stop  
2771 work order.

2772 C. The remedies (~~(set forth)~~) in this section are in addition to those authorized  
2773 elsewhere in this code.

2774 SECTION 141. Ordinance 15802, Section 126, and K.C.C. 16.32.235 are hereby  
2775 amended to read as follows:

2776 Section (~~(402.2.6)~~) 103.2 of the Uniform Plumbing Code is not adopted and the  
2777 following is substituted:

2778 **Liability (~~(Claims)~~) (UPC (~~(402.2.6)~~) 103.2).** This code is enacted as an exercise  
2779 of the police power of King County to protect and preserve the public peace, health,  
2780 safety and welfare, and its provisions shall be liberally construed for the accomplishment  
2781 of these purposes. It is expressly the purpose of this code to provide for and promote the

---

Ordinance 19485

---

2782 health, safety and welfare of the general public, and not to create or otherwise establish or  
2783 designate any particular class or group of persons who ~~((will))~~ would or should be  
2784 especially protected or benefited by the terms of this code.

2785         It is the specific intent of this code to place the obligation of complying with its  
2786 requirements upon the owner or occupier of premises within this code's scope, and no  
2787 provision nor term used in this code is intended to impose any duty ~~((whatsoever))~~ upon  
2788 the authority having jurisdiction or any of the authority having jurisdiction's officers or  
2789 employees, for whom the implementation or enforcement of this code shall be  
2790 discretionary and not mandatory.

2791         Nothing in this code creates or forms the basis for any liability on the part of the  
2792 authority having jurisdiction, or the authority having jurisdiction's officers, employees or  
2793 agents, for any injury or damage resulting from the failure of the owner or occupier of  
2794 premises to comply with the provisions of this code, or by reason or in consequence of  
2795 any act or omission in connection with the implementation or enforcement of this code on  
2796 the part of the authority having jurisdiction or by the authority having jurisdiction's  
2797 officers, employees or agents.

2798         Any claim or litigation arising from any conduct, acts or omissions of the  
2799 authority having jurisdiction, or any of the authority having jurisdiction's officers,  
2800 employees or agents, shall be subject to the provisions of K.C.C. chapter~~((s 4.12 and~~  
2801 ~~4.13))~~ 2.21.

2802         SECTION 142. Ordinance 15802, Section 128, and K.C.C. 16.32.255 are hereby  
2803 amended to read as follows:

Ordinance 19485

---

2804 Section (~~(402.3.2)~~) 106.3 of the Uniform Plumbing Code is not adopted and the  
2805 following is substituted:

2806 **Penalties (UPC (~~(402.3.2)~~) 106.3).** Any person, firm, corporation or other entity  
2807 violating any provision of this code shall be deemed guilty of a misdemeanor, and upon  
2808 conviction thereof, shall be punishable by a fine (~~(and)~~) or imprisonment, or both, in  
2809 accordance with K.C.C. Title 23 or state law. Each separate day or any portion thereof,  
2810 during which any violation of this code occurs or continues, shall be deemed to constitute  
2811 a separate offense.

2812 SECTION 143. Ordinance 15802, Section 130, and K.C.C. 16.32.275 are hereby  
2813 amended to read as follows:

2814 Section (~~(403.1.3)~~) 103.3.1 of the Uniform Plumbing Code is not adopted and the  
2815 following is substituted:

2816 **(~~(403.1.3)~~) Certification and Registration (UPC (~~(403.1.3)~~) 103.3.1).** It shall  
2817 be the obligation of (~~(every)~~) a person who enters into contracts for the installation or  
2818 repair of plumbing systems for which this code requires a permit, to comply with all  
2819 applicable state or local rules and regulations concerning plumber certification and  
2820 contractor registration.

2821 SECTION 144. Ordinance 15802, Section 131, as amended, and K.C.C.  
2822 16.32.285 are hereby amended to read as follows:

2823 Section (~~(403.3.3)~~) 104.4.2 of the Uniform Plumbing Code is not adopted and the  
2824 following is substituted:

2825 **Validity of Permit (UPC (~~(403.3.3)~~) 104.4.2).** The issuance of a permit or  
2826 approval of plans and specifications shall not be construed to be a permit for, or an

---

Ordinance 19485

---

2827 approval of, any violation of any of the provisions of this code or of any other ordinance  
2828 of the jurisdiction. No permit presuming to give authority to violate or cancel the  
2829 provisions of this code shall be valid.

2830 The issuance of a permit based upon plans, specifications or other data shall not  
2831 prevent the authority having jurisdiction from thereafter requiring the correction of errors  
2832 contained in ~~((said))~~ the plans, specifications and other data or from preventing building  
2833 operations being carried on thereunder when in violation of this code or of other  
2834 ordinances of this jurisdiction.

2835 Every plumbing permit shall be kept on the site where the work permitted is being  
2836 performed and shall not be removed until the work has been finally approved by the  
2837 authority having jurisdiction.

2838 ~~((Every permit issued by the authority having jurisdiction under the provisions of  
2839 this code shall expire by limitation and become null and void one year from date of issue.  
2840 Permits expired for not more than one year may be renewed one time only for one half  
2841 the original cost or fifty dollars (\$50), whichever is less. Any person seeking renewal of  
2842 a permit expired for more than one year shall pay the full amount of the original permit  
2843 cost in accordance with the fee schedule.))~~

2844 Plumbing work authorized by a permit in effect on or after ~~((July 1, 2013))~~ the  
2845 effective date of this ordinance, shall be performed in accordance with the laws and  
2846 ordinances in effect when the permit was issued, except when:

2847 1. ~~((§))~~The authority having jurisdiction determines such work to be in fact  
2848 dangerous, unsafe, insanitary~~((;))~~ or a nuisance or a menace to life, health or property; or

Ordinance 19485

---

2849            2. A building permit has been approved before the effective date of this  
2850 ordinance.

2851            NEW SECTION. SECTION 145. There is hereby added to K.C.C. chapter 16.32  
2852 a new section to read as follows:

2853            Section 104.4.3 of the Uniform Plumbing Code is not adopted and the following  
2854 is substituted:

2855            **Expiration (UPC 104.4.3).** Permits issued by the authority having jurisdiction  
2856 under this code shall expire eighteen months from date of issue.

2857            NEW SECTION. SECTION 146. There is hereby added to K.C.C. chapter 16.32  
2858 a new section to read as follows:

2859            Section 104.4.4 of the Uniform Plumbing Code is not adopted and the following  
2860 is substituted:

2861            **Extensions (UPC 104.4.4).** Permits may be renewed once for one-half the  
2862 original permit cost or fifty dollars, whichever is less. The renewed permit shall expire  
2863 eighteen months from the original expiration date. Any person seeking renewal of a  
2864 permit that has previously been renewed, shall apply for a new permit in accordance with  
2865 the code and pay the full amount of the permit cost in accordance with the fee schedule.

2866            SECTION 147. Ordinance 15802, Section 132, and K.C.C. 16.32.295 are hereby  
2867 amended to read as follows:

2868            Section (~~(103.3.5)~~) 104.4.5 of the Uniform Plumbing Code is not adopted and the  
2869 following is substituted:

2870            **Suspension, Revocation or Limitation of Permits (UPC (~~(103.3.5)~~) 104.4.5).**

Ordinance 19485

---

2871           ~~((A-))~~ 1. In addition to other remedies provided by law, the authority having  
2872 jurisdiction may, in writing, suspend, revoke or limit a permit issued under ~~((the~~  
2873 ~~provisions of))~~ this code if:

2874           ~~((1))~~ 1.1. The permit holder committed a violation of this code ~~((or))~~, other  
2875 ordinances~~((s))~~ or any rules and regulations adopted by the authority having jurisdiction,  
2876 in the course of performing activities subject to that permit;

2877           ~~((2))~~ 1.2. The permit holder interfered with the authority having jurisdiction in  
2878 the performance of the authority having jurisdiction's duties relating to the permit;

2879           ~~((3))~~ 1.3. The permit was issued in error or on the basis of materially incorrect  
2880 information supplied to the authority having jurisdiction; or

2881           ~~((4))~~ 1.4. Permit fees or costs were paid to the county by check and returned  
2882 from a financial institution marked nonsufficient funds or canceled.

2883           ~~((B-))~~ 2. The suspension, revocation or limitation shall be carried out through the  
2884 notice and order provisions of K.C.C. Title 23, is effective on the date established by the  
2885 notice and order and may be appealed to the King County hearing examiner in  
2886 accordance with the appeal provisions of K.C.C. Title 23.

2887           ~~((C))~~ 3. Notwithstanding any other provision of this code, the administrative  
2888 authority may immediately suspend operations under a permit by issuing a stop work  
2889 order in accordance with this code.

2890           SECTION 148. Ordinance 15802, Section 133, and K.C.C. 16.32.306 are hereby  
2891 amended to read as follows:

2892           Section ~~((403.5.6))~~ 105.2.6 of the Uniform Plumbing Code is not adopted and the  
2893 following is substituted:

Ordinance 19485

---

2894           **Reinspections (UPC (~~103.5.6~~) 105.2.6)**. A reinspection fee may be assessed for  
2895 each inspection or reinspection when part or all of the work for which inspection is called  
2896 is not complete or when required corrections have not been made.

2897           This provision is not to be interpreted as requiring reinspection fees the first time  
2898 a job is rejected for failure to comply with the requirements of this code, but as  
2899 controlling the practice of calling for inspections before the job is ready for inspection or  
2900 reinspection.

2901           Reinspection fees may be assessed when the approved plans are not readily  
2902 available to the inspector, for failure to provide access on the date for which the  
2903 inspection is requested, or for deviating from plans when such deviation requires but has  
2904 not received the approval of the authority having jurisdiction.

2905           To obtain reinspection, the applicant shall file an application therefor in writing  
2906 upon a form furnished for that purpose and pay the reinspection fee in accordance with  
2907 K.C.C. (~~16.32.080~~) 16.32.095.

2908           In instances where reinspection fees have been assessed, no additional inspection  
2909 of the work (~~will~~) shall be performed until the required fees have been paid.

2910           NEW SECTION. SECTION 149. There is hereby added to K.C.C. chapter 16.32  
2911 a new section to read as follows, to follow K.C.C. 16.32.335:

2912           Section 107 of the Uniform Plumbing Code is not adopted.

2913           NEW SECTION. SECTION 150. There is hereby added to K.C.C. chapter 16.32  
2914 a new section to read as follows:

2915           Section 501 of the Uniform Plumbing Code is supplemented with the following:

2916           **Water Heaters Used for Space Heating (UPC 501.2).**

---

Ordinance 19485

---

2917           1. Water heaters used both to supply potable hot water and provide hot water for  
2918 space-heating applications shall be:

2919           1.1. Listed and labeled for such applications by the manufacturer.

2920           1.2. Installed in accordance with the manufacturer's instructions and this code.

2921           1.3. Sized to prevent the space-heating load from diminishing the required  
2922 potable water-heating capacity.

2923           2. Where a combination potable water-heating and space-heating system requires  
2924 water for space heating at temperatures higher than 140° F (60° C), a temperature-  
2925 actuated mixing valve that conforms to ASSE 1017 shall be provided to temper the water  
2926 supplied to the potable hot water distribution system to a temperature of 140° F (60° C)  
2927 or less.

2928           NEW SECTION. SECTION 151. There is hereby added to K.C.C. chapter 16.32  
2929 a new section to read as follows:

2930           Section 501 of the Uniform Plumbing Code is supplemented with the following:

2931           **Supplemental Water-Heating Devices (UPC 501.3).** Potable water heating  
2932 devices that use refrigerant-to-water heat exchangers shall be approved and installed in  
2933 accordance with this code and the manufacturer's instructions.

2934           NEW SECTION. SECTION 152. There is hereby added to K.C.C. chapter 16.32  
2935 a new section to read as follows:

2936           Section 604.14 of the Uniform Plumbing Code is not adopted and the following is  
2937 substituted:

2938           **Termination of Building Supply Piping (UPC 604.14).** Plastic water service  
2939 piping may terminate within a building, but the connection to the potable water

Ordinance 19485

---

2940 distribution system shall be made as near as is practical to the point of entry and shall be  
2941 accessible. Barbed insert fittings with hose clamps are prohibited as a transition fitting  
2942 within the building.

2943 **EXCEPTION:** The connection to the potable water distribution system for PVC  
2944 and PE piping shall be within one foot of the building perimeter point of entry.

2945 NEW SECTION. SECTION 153. There is hereby added to K.C.C. chapter 16.32  
2946 a new section to read as follows:

2947 Section 709.1 of the Uniform Plumbing Code is not adopted and the following is  
2948 substituted:

2949 **709.1 General (UPC 709.1).** Plumbing fixtures shall be drained to the sanitary  
2950 waste system by gravity flow.

2951 **EXCEPTION:** Plumbing fixtures are permitted to be pumped or ejected as  
2952 allowed by UPC 710.2 or approved by the authority having jurisdiction.

2953 NEW SECTION. SECTION 154. There is hereby added to K.C.C. chapter 16.32  
2954 a new section to read as follows:

2955 Chapter 9 of the Uniform Plumbing Code is supplemented with the following:

2956 **Air Admittance Valves (UPC 913.0).** Individual fixtures, a branch vent, a  
2957 vertical wet vent and a horizontal wet vent may terminate with a connection to an air  
2958 admittance valve as follows:

2959 1. Fixtures connected to an air admittance valve shall be located on the same  
2960 floor level.

Ordinance 19485

---

2961           2. Air admittance valves shall conform to ASSE 1051 for single fixtures, ~~((and))~~  
2962 or ASSE 1050 for multiple fixtures, and shall be installed as required in this section and  
2963 the manufacturer installation guidelines.

2964           3. Air admittance valves shall be accessible and located:

2965           3.1. In an area that allows air to enter the valve.

2966           3.2. A minimum of ~~((four (4)))~~ 4 inches above the trap arm.

2967           3.3. A minimum of ~~((six (6)))~~ 6 inches above the flood level rim of the highest  
2968 fixture being vented, ~~((where))~~ when the air admittance valve serves as a vent termination  
2969 for a branch vent, or vertical and horizontal wet vent.

2970           3.4. Not less than ~~((six (6)))~~ 6 inches above insulation materials.

2971           3.5. Within the maximum developed length permitted for the vent as shown in  
2972 UPC Table 703.2.

2973           4. The air admittance valve shall be rated in accordance with the standard for the  
2974 vent size as determined in UPC Table 703.2.

2975           5. Not less than one plumbing vent sized as required by UPC 904.1 shall extend  
2976 to the exterior of the building as required in UPC 906.1.

2977           6. When a horizontal branch drain uses an individual or branch type air  
2978 admittance valve, a relief vent shall be installed when the horizontal branch drain is  
2979 located more than ~~((four (4)))~~ 4 branch intervals from the top of the building drain or  
2980 waste stack. Installations that require a relief vent shall be:

2981           6.1. Submitted for an installation design review before approval.

2982           6.2. Sized in accordance with UPC 904.1.

2983           6.3. Installed in accordance with UPC 905.0.

Ordinance 19485

---

2984 6.4. Extended to the outdoors or connect to a vent stack.

2985 6.5. Permitted to serve as the vent for other fixtures.

2986 7. Air admittance valve installations are prohibited for:

2987 7.1. Venting sumps or tanks.

2988 7.2. Non-neutralized chemical waste systems without a design review and

2989 approval by the authority having jurisdiction.

2990 7.3. Any fixtures connected to a grease or fats, oils and grease (FOG) disposal

2991 system.

2992 7.4. Location in spaces used as supply or return air plenums.

2993 NEW SECTION. SECTION 155. There is hereby added to K.C.C. chapter 16.32

2994 a new section to read as follows:

2995 Section 1014.1 of the Uniform Plumbing Code is not adopted and the following is

2996 substituted:

2997 **General (UPC 1014.1).** Where it is determined by the authority having

2998 jurisdiction that waste pretreatment is required, an approved type of grease interceptor(s)

2999 that complies with ASME A112.14.3, ASME A112.14.4, CSA B481, PDI G-101 or PDI

3000 G-102, and sized in accordance with UPC 1014.2.1 or 1014.3.6, shall be installed in

3001 accordance with the manufacturer's installation instructions to receive the drainage from

3002 fixtures or equipment that produce grease-laden waste located in areas of establishments

3003 where food is prepared or other establishments where grease is introduced into the

3004 drainage or sewage system in quantities that can effect line stoppage or hinder sewage

3005 treatment or private sewage disposal systems. A combination of hydromechanical,

3006 gravity grease interceptors and engineered systems are allowed to meet this code and

Ordinance 19485

---

3007 other applicable requirements of the authority having jurisdiction where space or existing  
3008 physical constraints of existing buildings require such installations. Grease interceptors  
3009 are not required for individual dwelling units or private living quarters. Water closets,  
3010 urinals and other plumbing fixtures conveying human waste shall not drain into or  
3011 through the grease interceptor. Grease interceptors shall comply with UPC 1014.1.1  
3012 through 1014.1.3.

3013 **EXCEPTION:** A one-family or two-family home that has an approved  
3014 commercial kitchen or prepares food for public sale shall install a grease interceptor that  
3015 complies to Section 1014.0 for all fixtures that produce fats, oils and grease (FOG) waste.

3016 NEW SECTION. SECTION 156. There is hereby added to K.C.C. chapter 16.32  
3017 a new section to read as follows:

3018 Section 1014.1.3 of the Uniform Plumbing Code is not adopted and the following  
3019 is substituted:

3020 **Food Waste Disposers and Dishwashers (UPC 1014.1.3).** No food waste  
3021 disposer or dishwasher shall be connected to or discharge into a grease interceptor.  
3022 Commercial food waste disposers may discharge directly into the building's drainage  
3023 system.

3024 **EXCEPTION:** Food waste disposers may discharge to grease interceptors that  
3025 are designed to receive the discharge of food waste or a listed food solids interceptor  
3026 shall be installed at the discharge point of the food waste disposer.

3027 SECTION 157. Ordinance 15802, Section 137, and K.C.C. 16.32.345 are hereby  
3028 amended to read as follows:

3029 Chapter 10 of the Uniform Plumbing Code is supplemented with the following:

---

3030           **Parking Garage Drainage Systems (UPC 1018.1).** All garage floor drainage  
3031 under the roof of a parking garage shall be connected to the sanitary drainage system,  
3032 through the use of a sand interceptor. When the top floor of the building is used as a roof  
3033 as well as a parking area, the drainage from the roof shall be connected to the storm  
3034 drainage system. Drainage from ~~((conventional))~~ plumbing fixtures shall not be inter-  
3035 connected with the ~~((floor))~~ garage drainage system~~((,-H))~~; however, drainage lines from  
3036 car or truck washing equipment may be connected to the ~~((floor))~~ approved garage  
3037 drainage system ~~((through an approved sand interceptor))~~. Garage drains shall comply  
3038 with the following:

3039           1. ~~((Floor drainage waste lines))~~ Garage drain piping shall be a minimum of three  
3040 inches in size. ~~((Waste unit loading for three inch or larger size floor drainage piping~~  
3041 ~~shall be sized in accordance with table 7-5 of this code. Floor drains or floor drain~~  
3042 ~~openings shall be equipped with approved strainers and need not be trapped when~~  
3043 ~~connected to the building drain through a properly trapped and vented sand interceptor.))~~

3044           2. A ~~((F))~~trap~~((s))~~ shall not be ~~((used when the floor))~~ installed at the garage  
3045 drains ~~((are located in areas exposed to freezing temperatures. The waste line from floor~~  
3046 ~~drains entering a sand interceptor shall be above the waste line discharging from the sand~~  
3047 ~~interceptor to the building drain. The sand interceptor receiving the floor drains shall~~  
3048 ~~have a water seal of not less than six inches. Floor drain traps need not be vented~~  
3049 ~~individually if line venting is used through an approved indirect waste system with a~~  
3050 ~~properly trapped and vented sand interceptor. A line vent for floor drains shall terminate~~  
3051 ~~through the roof or to an approved location in the outside atmosphere. When using line~~  
3052 ~~venting, the terminating vents, if more than one, shall be equal in cross sectional area to~~

---

Ordinance 19485

---

3053 the size of the waste line entering the sand interceptor or the line vent may continue full  
3054 size from the sand interceptor to the point of termination)). All plans for parking garage  
3055 ((floor)) drainage systems shall be submitted to the authority having jurisdiction ((prior  
3056 to)) before installation for approval.

3057 **EXCEPTION:** This section shall not apply to one-family or two-family  
3058 dwellings.

3059 **SECTION 158.** Ordinance 15802, Section 138, and K.C.C. 16.32.355 are hereby  
3060 amended as follows:

3061 Section ((4104)) 1101.3 of the Uniform Plumbing Code is not adopted and the  
3062 following is substituted:

3063 **Combining Storm with Sanitary Sewage (UPC ((4104)) 1101.3).** The sanitary  
3064 and storm drainage systems of a building shall be entirely separate.

3065 **SECTION 159.** Ordinance 2097, Section 1, as amended, and K.C.C. 17.04.010  
3066 are hereby amended to read as follows:

3067 The International Fire Code ((2012)) 2018 Edition, together with Appendices B  
3068 (Fire-flow requirements for buildings) and C (Fire hydrants location and distribution), as  
3069 published by the International Code Council, as amended in chapter 51-54A WAC,  
3070 effective February 1, ((2013)) 2021, and referred to in this title as the International Fire  
3071 Code ("IFC"), together with amendments, additions, and deletions adopted in this chapter  
3072 by reference, together with King County modifications are adopted as the ((Fire Code  
3073 to)) King County Fire Code, and referred to in this chapter as "this code." Administrative  
3074 rules may be adopted in accordance with K.C.C. chapter 2.98 to further clarify and

Ordinance 19485

---

3075 implement these code requirements. The King County modifications shall be codified in  
3076 this chapter.

3077 SECTION 160. Ordinance 12560, Section 148, as amended, and K.C.C.  
3078 17.04.200 are hereby amended to read as follows:

3079 Section 104.1 of the International Fire Code is not adopted and the following is  
3080 substituted:

3081 **General (IFC 104.1).** The ~~((F))~~fire ~~((M))~~marshal is authorized to render  
3082 interpretations of this code and make and enforce such rules and regulations, ~~((pursuant~~  
3083 ~~to the provisions of))~~ in accordance with K.C.C. chapters 2.98 and 2.100, for the  
3084 prevention and control of fires and fire hazards as necessary to ~~((carry out))~~ execute the  
3085 application and the intent of this code, including but not limited to:

3086 1. Procedures to ~~((assure))~~ ensure that building permits for structures shall  
3087 conform to the requirements of this code.

3088 2. Procedures to ~~((assure))~~ ensure that applicable standards of this code shall be  
3089 reviewed as part of the subdivision, short subdivision, urban planned development,  
3090 rezone, conditional use, special use, site development permit, binding site plan and  
3091 building permit processes.

3092 3. Procedures to assure that the standard known as NFPA 13R shall be applied as  
3093 a minimum standard to all R occupancies.

3094 4. Procedures to allow for relaxation of the hydrant spacing requirements by as  
3095 much as 50~~((% pursuant to K.C.C. chapter 17.08))~~ percent, except when such allowances  
3096 would unreasonably reduce fire protection to the area or structures served.

Ordinance 19485

---

3097 ~~((5. A minimum of one certified copy or the number required by governing law~~  
3098 ~~of such rules and regulations shall be filed with the clerk of the council and shall be in~~  
3099 ~~effect immediately thereafter and additional copies shall be kept in the King County Fire~~  
3100 ~~Marshal's Office for distribution to the public.))~~

3101 SECTION 161. Ordinance 2097 (part), as amended, and K.C.C. 17.04.210 are  
3102 hereby amended to read as follows:

3103 Section 104.1 of the International Fire Code is supplemented with the following:

3104 **Enforcement (IFC 104.1.1).**

3105 1. The fire marshal ~~((or designee))~~ is authorized to enforce the provisions of this  
3106 ~~((chapter))~~ title, the ordinances codified in it, and any adopted rules and regulations in  
3107 accordance with the enforcement and penalty provisions of K.C.C. Title 23.

3108 2. The fire marshal ~~((or designee))~~, any officer of the department of public safety,  
3109 and the chief of the fire district or designee, is authorized to take such lawful action,  
3110 including the writing and issuance of citations for civil infractions, as may be required to  
3111 enforce the provisions of the fire lane ordinance codified in this title.

3112 SECTION 162. Ordinance 12560, Section 154, as amended, and K.C.C.

3113 17.04.230 are hereby amended to read as follows:

3114 Section 104.1 of the International Fire Code is supplemented with the following:

3115 **Duties of the fire marshal and fire districts (IFC 104.1.3).**

3116 1. The fire marshal shall have responsibility for administration and inspection  
3117 functions to promote compliance of the fire prevention provisions of this code.

3118 2. The ~~((€))~~chiefs of the King County ~~((F))~~fire ~~((D))~~districts ~~((and))~~, municipal  
3119 ~~((F))~~fire ~~((D))~~departments and regional fire protection service authorities shall have

Ordinance 19485

---

3120 responsibility for fire suppression or extinguishing provisions of this code within their  
3121 respective jurisdictions.

3122           3. The fire marshal may, by written contract, delegate to the chiefs of the fire  
3123 districts or fire departments authority for inspections of the fire prevention provisions of  
3124 this code within their respective jurisdictions.

3125           4. The fire marshal may, at the request of a fire districts or fire department,  
3126 assume an advisory status in matters of operations, function, expenditure, tactics,  
3127 personnel and equipment or any other function performed by the fire district or fire  
3128 department.

3129           SECTION 163. Ordinance 17837, Section 75, and K.C.C. 17.04.295 are hereby  
3130 amended to read as follows:

3131           Section 105.7.21 of the International Fire Code is ~~((supplemented with))~~ not  
3132 adopted and the following is substituted:

3133           **Solar photovoltaic power systems (IFC ~~((105.7.13))~~ 105.7.21).** A construction  
3134 permit ~~((is))~~ shall be required to install or modify solar photovoltaic power systems.

3135           ~~((Exception))~~ **EXCEPTION:** Roof-mounted ~~((photo-voltaic))~~ photovoltaic solar  
3136 panels on one and two family dwellings that have a total dead load not exceeding  
3137 ~~((three))~~ four pounds per square foot and ~~((-))~~ are mounted no more than eighteen inches  
3138 above the roof or highest roof point on which they are mounted.

3139           SECTION 164. Ordinance 14915, Section 25, and K.C.C. 17.04.310 are hereby  
3140 amended to read as follows:

3141           Sections ~~((108.3))~~ 109 of the International Fire Code is not adopted.

Ordinance 19485

---

3142            SECTION 165. Ordinance 14915, Section 26, and K.C.C. 17.04.320 are hereby  
3143 amended to read as follows:

3144            Sections ~~((411.1))~~ 112.1 and 112.2 of the International Fire Code ~~((is))~~ are not  
3145 adopted and the following is substituted:

3146            **Order and Issuance (IFC ~~((411.1))~~ 112.1 and 112.2).** Whenever any work is  
3147 being done contrary to the provisions of this code, the fire marshal may order the work  
3148 stopped in accordance with K.C.C. Title 23 by notice in writing served on any persons  
3149 engaged in the doing or causing such work to be done, or by posting such notice in a  
3150 conspicuous place on the premises where the violation is occurring, and any such persons  
3151 shall ~~((forthwith))~~ immediately stop such work until authorized by the fire marshal to  
3152 proceed with the work.

3153            Whenever any work is being done contrary to the provisions of this code, the fire  
3154 marshal may order the violations corrected without ordering all work stopped by issuing  
3155 a correction notice which identifies the violation. The correction notice may require  
3156 reinspection ~~((prior to))~~ before further construction~~((s))~~ or at the time of the next required  
3157 inspection. The correction notice shall be served or posted in the same manner as a stop  
3158 work order.

3159            These remedies are in addition to those authorized elsewhere in the code.

3160            SECTION 166. Ordinance 14915, Section 27, and K.C.C. 17.04.330 are hereby  
3161 amended to read as follows:

3162            Section ~~((411.4))~~ 112.4 of the International Fire Code is not adopted.

3163            NEW SECTION. SECTION 167. There is hereby added to K.C.C. chapter 17.04  
3164 a new section to read as follows:

Ordinance 19485

---

3165 Section 202 of the International Fire Code is supplemented with the following:

3166 **Definitions (IFC 202.1).** Definitions. The definitions in this section apply

3167 throughout this title unless the context clearly requires otherwise.

3168 A. Applicant: a property owner or a public agency or public or private utility  
3169 which owns a right-of-way or associated easement or has been adjudicated the right to  
3170 such an easement pursuant to RCW 8.12.090, or any person or entity designated or  
3171 named in writing by the property or easement owner to be the applicant, in an application  
3172 for a permit.

3173 B. Critical fire service areas: Areas that provide vital services for the  
3174 coordination or implementation of fire suppression services, such as fire command  
3175 centers, fire pump rooms, interior exit stairways, exit passageways, elevator lobbies,  
3176 standpipe cabinets and sprinkler sectional valve locations, and other areas required by the  
3177 fire marshal.

3178 C. Fire detection system: a heat and/or smoke detection system monitored by a  
3179 central and/or remote station conforming to the current edition of the International Fire  
3180 Code as adopted by the Washington State Building Code Council and/or the fire marshal  
3181 or designee.

3182 D. Fire marshal: The King County fire marshal as designated in K.C.C.  
3183 2.16.055, or designee.

3184 E. Life safety/rescue access: an unobstructed access to all floor levels and each  
3185 roof level of a building on not less than twenty percent of the building perimeter by  
3186 utilizing a thirty-five foot ladder. An alternate method would be at least one stairway

Ordinance 19485

---

3187 enclosure with exit doorways from each floor level and with a door opening onto each  
3188 roof level which conforms to the requirements of the International Building Code.

3189 F. NFPA: The National Fire Protection Association.

3190 G. Water main: piping used to deliver water to any fire hydrants or to one or  
3191 more individual service connections.

3192 NEW SECTION. SECTION 168. There is hereby added to K.C.C. chapter 17.04  
3193 a new section to read as follows:

3194 Section 503.1 of the International Fire Code is not adopted and the following is  
3195 substituted:

3196 **Where required (IFC 503.1).** Fire apparatus access roads shall be provided and  
3197 maintained for new facilities or buildings, or portions thereof.

3198 NEW SECTION. SECTION 169. There is hereby added to K.C.C. chapter 17.04  
3199 a new section to read as follows:

3200 Specifications (IFC 503.2). Fire apparatus access roads shall be installed and  
3201 arranged in accordance with IFC 503.2.1 and 503.2.2.

3202 NEW SECTION. SECTION 170. There is hereby added to K.C.C. chapter 17.04  
3203 a new section to read as follows:

3204 Section 503.2 of the International Fire Code is not adopted and the following is  
3205 substituted:

3206 **Dimensions (IFC 503.2.1).** An approved fire apparatus access road shall be a  
3207 minimum of 20 feet wide and provide a minimum unobstructed height of 13 feet 6  
3208 inches.

Ordinance 19485

---

3209            SECTION 171. Ordinance 12560, Section 165, as amended, and K.C.C.

3210 17.04.380 are hereby amended to read as follows:

3211            Section 503.2.2 of the International Fire Code is not adopted and the following is  
3212 substituted:

3213            **Surface (IFC 503.2.2).** (~~Fire apparatus access roads shall be designed and~~  
3214 ~~maintained to support the imposed loads of 25 tons~~) Fire apparatus access roads shall be  
3215 designed and maintained to be accessible with an asphalt, concrete or other approved  
3216 driving surface suitable for all-weather driving and capable of supporting the imposed  
3217 load of fire apparatus weighing at least 75,000 pounds, or other weight as required by the  
3218 ~~((F))fire ((M))marshal, and shall ((be provided with a surface so as to provide all-weather~~  
3219 ~~driving capabilities that))~~ comply with K.C.C. chapter 14.42(~~(, King County Road~~  
3220 ~~Standards))~~) and the provisions of this chapter.

3221            SECTION 172. Ordinance 7980, Section 1, as amended, and K.C.C. 17.04.420  
3222 are hereby amended to read as follows:

3223            Sections 503.3 and 503.4 of the International Fire Code are not adopted and the  
3224 following is substituted:

3225            **Marking ~~((of and)), establishment and obstruction of fire lanes~~ (IFC 503.3  
3226 and 503.4).**

3227            ~~((A-))~~ 1. Establishment of ~~((F))fire ((L))lanes~~. Fire lanes in conformance with  
3228 this code shall be established by the ~~((King County))~~ fire marshal ~~((or designee,))~~ and  
3229 shall be referred to as designated fire lanes in this section.

3230            ~~((B-))~~ 2. Definition of ~~((F))fire ((L))lanes~~. The area within any public right of  
3231 way, easement~~((,))~~ or on private property designated for the purpose of ~~((permitting))~~

Ordinance 19485

---

3232 allowing fire trucks and other fire fighting or emergency equipment to use, travel  
 3233 upon(;) and park.

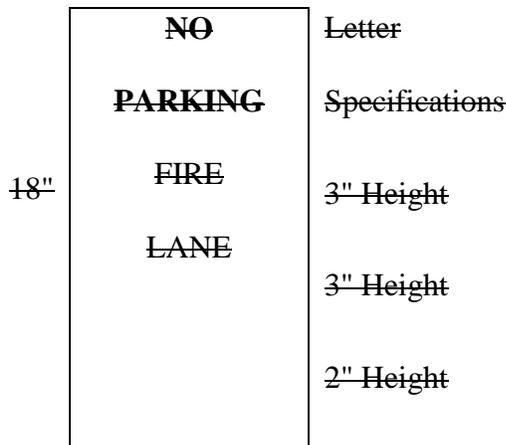
3234 ~~((C-))~~ 3. Marking of ~~((F))~~(L) fire ~~((L))~~(L) lanes. All designated fire lanes shall be clearly  
 3235 marked ~~((in the following manner))~~ as follows:

3236 3.1. Vertical curbs ~~((6 inch))~~ shall be painted ~~((yellow))~~ red on the top and  
 3237 side, extending the length of the designated fire lane. The pavement adjacent to the  
 3238 painted curbs shall be marked with minimum 18 inch in height block lettering with a  
 3239 minimum 3- inch brush stroke reading: "NO PARKING - FIRE LANE." Lettering shall  
 3240 be ~~((yellow))~~ white and spaced at 50 foot or portion thereof intervals~~((,-or))~~;

3241 3.2. Rolled curbs or surface without curbs shall have a ~~((yellow))~~ red 6~~((-))~~-inch  
 3242 wide stripe painted extending the length of the designated fire lane. The surface adjacent  
 3243 to the stripe shall be marked with minimum 18 inch in height block lettering with a  
 3244 minimum 3- inch brush stroke reading: "NO PARKING - FIRE LANE." Lettering shall  
 3245 be in ~~((yellow))~~ white and spaced at 50 ft. or portion thereof intervals~~((,-))~~; or

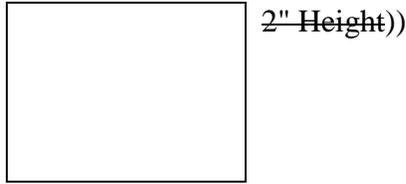
3246 3.3. Fire lane signs shall be installed ~~((per the illustration))~~ as follows:

~~((12"~~



Ordinance 19485

---



3247 a. (~~Reflective in nature.~~) Signs shall be a type "R8-31" reflective sign or of an  
3248 equivalent reflectivity.

3249 b. Red letters on white background with the wording:  
3250 "NO PARKING  
3251 FIRE LANE"

3252 c. Signs (~~to be spaced 50 feet or portion thereof apart and posted on or~~  
3253 ~~immediately next to the curb~~) shall be no less than 12 inches by 18 inches in size and  
3254 shall be placed at a maximum center-to-center spacing of 150 feet on both sides of the  
3255 fire lane, or an additional sign may be put beneath the fire lane sign lettered as:  
3256 "BOTH SIDES"

3257 d. (~~Top of signs to be not less than 4 feet nor more than 6 feet from the~~  
3258 ~~ground.~~) Signs shall be posted at a minimum height of 7 feet measured from the road or  
3259 sidewalk to the bottom of the sign, unless required otherwise by this section.

3260 e. Signs may be placed on a fence or building when approved by the fire  
3261 marshal (~~as the designee of the department of local services permitting division~~  
3262 ~~manager~~). When signs are wall or fence mounted, they shall be posted at a minimum  
3263 height of 5 feet measured from the road or sidewalk to the top of the sign.

3264 f. When posts are required, they shall (~~be a minimum of 2 inch galvanized~~  
3265 ~~steel or 4 inch x 4 inch pressure treated wood~~) meet current road standards in K.C.C.

Ordinance 19485

---

3266 chapter 14.42. Signs ~~((tø))~~ shall be placed so they face the direction of the vehicular  
3267 travel.

3268 g. Sign numbers and spacing may be modified by the King County fire  
3269 marshal.

3270 ~~((D:))~~ 4. Obstruction of Fire Lanes Prohibited. Unless required otherwise by this  
3271 chapter, ~~((F))~~ the obstruction of a designated fire lane by a parked vehicle or any other  
3272 object is prohibited, shall constitute a traffic hazard as defined in state law and an  
3273 immediate hazard to life and property.

3274 ~~((E:))~~ 5. Alternate ~~((M))~~ materials and ~~((M))~~ methods. The fire marshal ~~((as~~  
3275 ~~designee of the department of local services permitting division manager))~~ may modify  
3276 any of the provisions ~~((herein))~~ of this section where practical difficulties exist. The  
3277 particulars of a modification ~~((shall be granted))~~ that are approved by the fire marshal  
3278 ~~((and))~~ shall be entered into the final records ~~((of the office))~~ for the project permit.

3279 ~~((F:))~~ 6. Existing fire lane signs and markings.

3280 6.1. Signs ~~((t))~~ that are a minimum 9 inches by 16 inches ~~((t))~~ may be allowed to  
3281 remain until there is a need for replacement and at that time a 12 inch ~~((\*)~~ by 18 inch  
3282 sign shall be installed.

3283 6.2. Markings may be allowed to remain until there is a need for repainting  
3284 ~~((and at that time the provisions outlined in Section C, 1, 2 or 3 shall be complied with)).~~

3285 When markings are repainted, they shall comply with subsection 3. of this section.

3286 ~~((G:))~~ 7. Maintenance. Fire lane markings shall be maintained at the expense of  
3287 the property owner ~~((s))~~ as often as needed to clearly identify the designated area as  
3288 being a fire lane.

Ordinance 19485

---

3289           ~~((H.))~~ 8. Towing notification. At each entrance to property where fire lanes have  
3290 been designated, signs shall be posted in a clearly conspicuous location and shall clearly  
3291 state that vehicles parked in fire lanes may be impounded, and the name, telephone  
3292 number~~((;))~~ and address of the towing firm where the vehicle may be ~~((redeemed))~~  
3293 collected.

3294           ~~((I.))~~ 9. Property owner responsible. The owner, manager~~((;))~~ or person in charge  
3295 of any property upon which designated fire lanes have been established shall prevent the  
3296 parking of vehicles or placement of other obstructions in such fire lanes.

3297           ~~((J.))~~ 10. Violation - Civil infraction. Any person who fails to mark or maintain  
3298 the marking of a designated fire lane as prescribed in this chapter, or who parks a vehicle  
3299 in, allows the parking of a vehicle in, obstructs~~((;))~~ or allows the obstruction of a  
3300 designated fire lane, commits a civil infraction to which the provisions of ~~((RCW))~~  
3301 chapter 7.80 RCW shall apply. The penalty for failing to mark or maintain the marking  
3302 of a designated fire lane shall be one hundred and fifty dollars. The penalty for parking a  
3303 vehicle in, allowing the parking of a vehicle in, obstructing~~((;))~~ or allowing the  
3304 obstruction of a designated fire lane shall be fifty dollars.

3305           ~~((K.))~~ 11. Violation - Civil ~~((P))~~penalty. In addition to, or as an ~~((alternate))~~  
3306 alternative to, the provisions of subsection ~~((E))~~ 10. of this section, any person who fails  
3307 to meet the provisions of the fire lane requirements codified in this title shall be subject to  
3308 civil penalties in conformance with K.C.C. ~~((Chapter))~~ Title 23.

3309           ~~((L.))~~ 12. Impoundment. Any vehicle or object obstructing a designated fire lane  
3310 is hereby declared a traffic hazard and may be abated without prior notification to its  
3311 owner by impoundment ~~((pursuant to))~~ in accordance with the applicable state law.

Ordinance 19485

---

3312            NEW SECTION. SECTION 173. There is hereby added to K.C.C. chapter 17.04

3313 a new section to read as follows:

3314            Section 503.6 of the International Fire Code is not adopted and the following is  
3315 substituted.

3316            **Security gates, bollards or other obstructions (IFC 503.6).**

3317            1. The installation of security gates, bollards or other obstructions across a fire  
3318 apparatus access road shall not be allowed unless ~~((reviewed and))~~ approved by the fire  
3319 marshal. The use of directional-limiting devices, such as tire spikes, is prohibited.

3320 Where security gates, bollards or other obstructions are installed, they shall have an  
3321 approved means of emergency operation. The security gates, bollards or other  
3322 obstructions and the emergency operation shall be maintained so that they are operational  
3323 at all times.

3324            2. Electric gate operators shall be listed in accordance with Underwriter  
3325 Laboratories (UL) 325. Gates intended for automatic operation shall be designed,  
3326 constructed and installed to comply with the requirements of American Society for  
3327 Testing and Materials (ASTM) F 2200 and shall be equipped with equipment approved  
3328 by the fire marshal that allows for operation of the gate by fire and police personnel from  
3329 their vehicle.

3330            3. Gates shall be at a minimum as wide as the required fire apparatus access road  
3331 width. Gates, bollards or other obstructions on commercial properties shall be set back at  
3332 least 30 feet from roadway edge of pavement. Where a fence is provided on each side of  
3333 a gate for a commercial property, an access door shall be provided at an approved  
3334 location with a secure key box that is approved by the fire marshal.

Ordinance 19485

---

3335           **EXCEPTION:** Automated gates with equipment approved by the fire marshal  
3336 that allow for operation of the gate by fire and police personnel from their vehicle are not  
3337 required to be set back 30 feet from the roadway edge of pavement if the roadway is not a  
3338 principal or collector arterial or a ((street)) road with lane markers.

3339           NEW SECTION. SECTION 174. There is hereby added to K.C.C. chapter 17.04  
3340 a new section to read as follows:

3341           Section 504.3 of the International Fire Code is supplemented with the following:

3342           **Roof hatches (IFC 504.3.1).** All required interior stairways that extend to the top  
3343 floor in any building four or more stories in height shall have, at the highest point of the  
3344 stair shaft, an approved hatch that can open to the exterior not less than 16 square feet  
3345 (1.5m<sup>2</sup>) in area and having a minimum dimension of 3 feet (914mm).

3346           **EXCEPTION:** A roof hatch is not required for stairways that extend to the roof  
3347 with an opening onto that roof or for stairways that comply with International Building  
3348 Code Section 1011.12.2.

3349           NEW SECTION. SECTION 175. There is hereby added to K.C.C. chapter 17.04  
3350 a new section to read as follows:

3351           Section 504 of the International Fire Code is supplemented with the following:

3352           **Buildings with enclosed interior courtyards (IFC 504.5).** New buildings with  
3353 enclosed interior courtyards shall have a straight, direct access corridor or stairway or  
3354 both from the exterior to the courtyard at a location acceptable to the fire marshal.  
3355 Stairways shall comply with IFC 1011 and corridors shall comply with IFC 1020. The  
3356 access shall have a minimum width of 4 feet, or an alternative width as directed by the  
3357 fire marshal, and be large enough to carry a 35-foot-long sectional ladder, with a

Ordinance 19485

---

3358 minimum folded length of 20 feet, directly from the exterior to the courtyard without  
3359 obstructions. The access door shall be marked at the ((street)) road as "Direct access to  
3360 courtyard."

3361 SECTION 176. Ordinance 14915, Section 56, and K.C.C. 17.04.450 are hereby  
3362 amended to read as follows:

3363 Section 505.1 of the International Fire Code is not adopted and the following is  
3364 substituted:

3365 **Premises identification – Addresses (IFC 505.1).** Approved numbers or  
3366 addresses shall be provided for all new and existing buildings ((in such a position as to be  
3367 plainly visible and legible from the street or road fronting the property)) in accordance  
3368 with K.C.C. chapter 16.08.

3369 NEW SECTION. SECTION 177. There is hereby added to K.C.C. chapter 17.04  
3370 a new section to read as follows:

3371 Section 507.1 of the International Fire Code is supplemented with the following:

3372 **Required water supply (IFC 507.1.1).** Underground piping shall conform to the  
3373 following requirements:

3374 1. All underground piping shall be designed, constructed and installed in  
3375 accordance with NFPA 24 for private fire service mains and NFPA 13 for water-based  
3376 fire protection systems. Two forms of joint restraint shall be used.

3377 2. Piping systems under the control of a water district or city utilities department  
3378 shall be installed in accordance with said Utilities Engineering Standard. The fire  
3379 marshal shall be responsible for determining hydrant spacing and location connecting to  
3380 these systems.

Ordinance 19485

---

3381            NEW SECTION. SECTION 178. There is hereby added to K.C.C. chapter 17.04

3382 a new section to read as follows:

3383            Section 510.1 of the International Fire Code is not adopted and the following is  
3384 substituted:

3385            **Emergency responder radio coverage in new buildings (IFC 510.1).** New  
3386 buildings meeting the conditions of this section shall have an approved radio coverage  
3387 system for emergency responders installed in accordance with IFC 510.4 through 510.5.5  
3388 and NFPA 1221. Radio coverage is based upon the existing coverage levels of the public  
3389 safety communication systems of the jurisdiction at the exterior of the building. This  
3390 section shall not require improvements of the existing public safety communication  
3391 system. An approved radio coverage system shall be provided within new buildings  
3392 meeting any of the following conditions:

- 3393            1. High-rise buildings;
- 3394            2. The total building area is 50,000 square feet or more;
- 3395            3. The total basement area is 10,000 square feet or more;
- 3396            4. There are floors used for human occupancy more than 30 feet below the  
3397 finished floor of the lowest level of exit discharge; or
- 3398            5. Buildings or structures where the fire marshal determines, in consultation with  
3399 the fire chief, that in-building radio coverage is critical because of its unique design,  
3400 location, use or occupancy.

3401            **EXCEPTIONS:**

Ordinance 19485

---

3402 1. Buildings and areas of buildings that have minimum radio coverage signal  
3403 strength levels of the public safety radio operator within the building in accordance with  
3404 IFC 510.4.1 without the use of a radio coverage system.

3405 2. In facilities where emergency responder radio coverage is required and such  
3406 systems, components or equipment required could have a negative impact on the normal  
3407 operations of that facility, the fire marshal shall have the authority to accept an  
3408 automatically activated emergency responder radio coverage system.

3409 3. One- and two-family dwellings and townhouses.

3410 4. Where it is determined by the fire marshal that the radio coverage system is  
3411 not needed.

3412 NEW SECTION. SECTION 179. There is hereby added to K.C.C. chapter 17.04  
3413 a new section to read as follows:

3414 Section 510.4.1 of the International Fire Code is not adopted and the following is  
3415 substituted:

3416 **Emergency responder communication enhancement system signal strength**  
3417 **(IFC 510.4.1).** A building shall be considered to have acceptable emergency responder  
3418 communications enhancement system coverage when the following conditions are met:

3419 1. Emergency responder communications enhancement system signal strength  
3420 measurements in 95 percent of all areas on each floor of the building meet the signal  
3421 strength requirements in IFC 510.4.1.1 through 510.4.1.3; and

3422 2. Critical fire service areas shall have 99 percent floor area radio coverage.

3423 NEW SECTION. SECTION 180. There is hereby added to K.C.C. chapter 17.04  
3424 a new section to read as follows:

Ordinance 19485

---

3425 Section 510.4.1.2 of the International Fire Code is not adopted and the following  
3426 is substituted:

3427 **Minimum signal strength out of the building (IFC 510.4.1.2).** The minimum  
3428 outbound signal strength shall be sufficient to provide usable voice communications  
3429 throughout the coverage area as specified by the fire marshal. The outbound signal level  
3430 shall be sufficient to provide not less than a DAQ of 3.4 or an equivalent SINR applicable  
3431 to the technology for either analog or digital signals. A minimum signal strength of -100  
3432 dBm shall be received by the public safety radio operator when transmitted from within  
3433 the building.

3434 NEW SECTION. SECTION 181. There is hereby added to K.C.C. chapter 17.04  
3435 a new section to read as follows:

3436 Section 510.4.2.1 of the International Fire Code is not adopted and the following  
3437 is substituted:

3438 **Amplification systems and components (510.4.2.1).** Buildings and structures  
3439 that cannot support the required level of radio coverage shall be equipped with systems  
3440 and components to enhance the public safety radio signals and achieve the required level  
3441 of radio coverage specified in IFC 510.4.1 through 510.4.1.3. Public safety  
3442 communications enhancement systems utilizing radio-frequency-emitting devices and  
3443 cabling shall be approved by the fire code marshal. Prior to activating rebroadcasting of  
3444 public safety frequencies, all RF-emitting devices shall obtain an executed rebroadcast  
3445 agreement from the public safety radio system operator and be suitable for public safety  
3446 use.

Ordinance 19485

---

3447            NEW SECTION. SECTION 182. There is hereby added to K.C.C. chapter 17.04

3448 a new section to read as follows:

3449            Section 510.4.2.4 of the International Fire Code is not adopted and the following  
3450 is substituted:

3451            **Signal booster requirements (IFC 510.4.2.4).**

3452            1. All signal booster components shall be contained in a National Electrical  
3453 Manufacturer's Association (NEMA) 4-type, IP65 or IP66 waterproof cabinet or  
3454 equivalent.

3455            **EXCEPTION:** Listed battery systems that are contained in integrated battery  
3456 cabinets.

3457            2. Battery systems used for the emergency power source shall be contained in a  
3458 NEMA 3R or higher-rated cabinet, IP14-type waterproof cabinet or equivalent.

3459            3. Equipment shall have FCC or other radio licensing authority certification and  
3460 be suitable for public safety use before installation.

3461            4. Where a donor antenna exists, isolation shall be maintained between the donor  
3462 antenna and all inside antennas to not less than 20dB more than the system gain under all  
3463 operating conditions.

3464            5. Active RF emitting devices used in emergency responder radio coverage  
3465 systems shall have built-in oscillation detection and control circuitry.

3466            6. The installation of amplification systems or systems that operate on or provide  
3467 the means to cause interference on any emergency responder radio coverage networks  
3468 shall be coordinated and approved by the fire marshal and the public safety radio  
3469 operator.

Ordinance 19485

---

3470 7. Unless otherwise approved by the fire marshal, only channelized signal  
3471 boosters shall be permitted. Channelized signal boosters shall comply with operating  
3472 requirements of the public safety radio operator, including the capacity of supporting a  
3473 minimum of 28 channels and 800 MHz analog and digital operation including P25 Phase  
3474 I frequency division multiple access (FDMA) and P25 Phase II time division multiple  
3475 access (TDMA).

3476 NEW SECTION. SECTION 183. There is hereby added to K.C.C. chapter 17.04  
3477 a new section to read as follows:

3478 Section 510.4.2.5 of the International Fire Code is not adopted and the following  
3479 is substituted:

3480 **System monitoring (IFC 510.4.2.5).** The emergency responder radio  
3481 enhancement system shall include automatic supervisory and trouble signals that are  
3482 monitored by a supervisory service and are annunciated by the fire alarm system in  
3483 accordance with NFPA 1221. The following conditions shall be separately annunciated  
3484 by the fire alarm system or, if the status of each of the following conditions is  
3485 individually displayed on a dedicated panel on the radio enhancement system, a single  
3486 automatic supervisory signal may be annunciated on the fire alarm system indicating  
3487 deficiencies of the radio enhancement system:

- 3488 1. Loss of normal AC power supply.
- 3489 2. System battery charger(s) failure.
- 3490 3. Malfunction of the donor antenna(s).
- 3491 4. Failure of active RF-emitting device(s).
- 3492 5. Low-battery capacity at 70-percent reduction of operating capacity.

Ordinance 19485

---

3493 6. Active system component malfunction.

3494 7. Malfunction of the communications link between the fire alarm system and the  
3495 emergency responder radio enhancement system.

3496 NEW SECTION. SECTION 184. There is hereby added to K.C.C. chapter 17.04  
3497 a new section to read as follows:

3498 Section 510.5.1 of the International Fire Code is not adopted and the following is  
3499 substituted:

3500 **Approval prior to installation (IFC 510.5.1).** Amplification systems capable of  
3501 operating on frequencies licensed to any public safety agency by the FCC or other radio  
3502 licensing authority shall not be activated to rebroadcast without prior coordination and  
3503 approval of the fire marshal and public safety radio system operator.

3504 NEW SECTION. SECTION 185. There is hereby added to K.C.C. chapter 17.04  
3505 a new section to read as follows:

3506 Section 510.5.2 of the International Fire Code is not adopted and the following is  
3507 substituted:

3508 **Minimum qualifications of personnel (IFC 510.5.2).** The minimum  
3509 qualifications of the system designer and lead installation personnel shall include the  
3510 following:

- 3511 1. A valid FCC-issued general radiotelephone operators license; and
- 3512 2. Certification of in-building system training issued by an organization or school  
3513 approved by the fire marshal, or a certificate issued by the manufacturer of the equipment  
3514 being installed.

Ordinance 19485

---

3515            NEW SECTION. SECTION 186. There is hereby added to K.C.C. chapter 17.04  
3516 a new section to read as follows:

3517            Section 510.5.3 of the International Fire Code is not adopted and the following is  
3518 substituted:

3519            **Acceptance test procedure (IFC 510.5.3).** Where an emergency responder radio  
3520 coverage system is required, and upon completion of installation, the building owner  
3521 shall have the radio system tested to verify that two-way coverage on each floor of the  
3522 building in accordance with IFC 510.4.1. The test procedure shall be conducted as  
3523 follows:

3524            1. Each floor of the building shall be divided into a grid of 20 approximately  
3525 equal test areas, with a maximum test area size of 6,400 square feet. Where the floor area  
3526 exceeds 128,000 square feet, the floor shall be divided into as many approximately equal  
3527 test areas as needed, such that no test area exceeds the maximum square footage allowed.

3528            2. Coverage testing of signal strength shall be conducted using a calibrated  
3529 spectrum analyzer for each of the test grids. A diagram of this testing shall be created for  
3530 each floor where coverage is provided, indicating the testing grid used for the test in IFC  
3531 510.5.3(1), and including inbound signal strengths and frequencies for each test area.  
3532 The diagram shall indicate all critical fire service areas.

3533            3. Functional talk-back testing shall be conducted using two calibrated portable  
3534 radios of the latest brand and model used by the agency's radio communications system  
3535 or other equipment approved by the fire marshal. Testing shall use Digital Audible  
3536 Quality (DAQ) metrics, where a passing result is a DAQ of 3.4 or higher.  
3537 Communications between handsets shall be tested and recorded in the grid square

Ordinance 19485

---

3538 diagram required by IFC 510.5.3(2): each grid square on each floor; between each  
3539 critical fire service area and a radio outside the building; between each critical fire service  
3540 area and the fire command center or fire alarm control panel; and between each landing  
3541 in each stairwell and the fire command center or fire alarm control panel.

3542 4. Failure of more than five percent of the test areas on any floor shall result in  
3543 failure of the test.

3544 **EXCEPTION:** Critical fire service areas shall be provided with 99 percent floor  
3545 area coverage.

3546 5. If two of the test areas fail the test, and to be more statistically accurate, the  
3547 floor shall be permitted to be divided into 40 equal test areas. Failure of not more than  
3548 two nonadjacent test areas shall not result in failure of the test. If the system fails the 40-  
3549 area test, the system shall be altered to meet the 95 percent coverage requirement.

3550 6. A test location approximately in the center of each test area shall be selected  
3551 for the test, with the radio enabled to verify two-way communications to and from the  
3552 outside of the building through the public agency's radio communications system. Once  
3553 the test location has been selected, that location shall represent the entire test area.

3554 Failure in the selected test location shall be considered to be a failure of that test area.

3555 Additional test locations shall not be permitted.

3556 7. The gain values of all amplifiers shall be measured, and the test measurement  
3557 results shall be kept on file with the building owner so that the measurements can be  
3558 verified during annual tests. If the measurement results become lost, the building owner  
3559 shall be required to rerun the acceptance test to reestablish the gain values.

Ordinance 19485

---

3560           8. As part of the installation, a spectrum analyzer or other suitable test equipment  
3561 shall be used to ensure spurious oscillations are not being generated by the subject signal  
3562 booster. This test shall be conducted at the time of installation and at subsequent annual  
3563 inspections.

3564           9. Systems incorporating Class B signal booster devices or Class B broadband  
3565 fiber remote devices shall be tested using two portable radios simultaneously conducting  
3566 subjective voice quality checks. One portable radio shall be positioned not more than 10  
3567 feet (3,048 mm) from the indoor antenna. The second portable radio shall be positioned  
3568 at a distance that represents the farthest distance from any indoor antenna. With both  
3569 portable radios simultaneously keyed up on different frequencies within the same band,  
3570 subjective audio testing shall be conducted and comply with DAQ levels as specified in  
3571 IFC 510.4.1.1 and 510.4.1.2.

3572           10. At the conclusion of the testing, and before issuance of the building  
3573 certificate of occupancy, the building owner or owner's representative shall place a copy  
3574 of the following records in the DAS enclosure or the main building office. The  
3575 following records shall be available to the fire marshal and maintained by the building  
3576 owner for the life of the system:

3577           a. A certification letter stating that the emergency responder radio coverage  
3578 system has been installed and tested in accordance with this code, and that the system is  
3579 complete and fully functional.

3580           b. The grid square diagram created as part of testing in IFC 510.5.3(2) and  
3581 510.5.3(3).

Ordinance 19485

---

3582 c. Data sheets and manufacturer specifications for the emergency responder  
3583 radio coverage system equipment, back up battery and charging system, if used.

3584 d. A diagram showing device locations and wiring schematic.

3585 e. A copy of the electrical permit.

3586 11. At the conclusion of testing, and before issuance of the building certificate of  
3587 occupancy, the building owner or owner's representative shall submit to the fire marshal a  
3588 report of the acceptance test.

3589 NEW SECTION. SECTION 187. There is hereby added to K.C.C. chapter 17.04  
3590 a new section to read as follows:

3591 Section 510.5 of the International Fire Code is supplemented with the following:

3592 **Wiring (IFC 510.5.6).** The backbone, antenna distribution, radiating or any  
3593 fiber-optic cables or other system interconnection cables shall be rated as plenum cables.  
3594 The backbone cables shall be connected to the antenna distribution, radiating or copper  
3595 cables using hybrid coupler devices of a value determined by the overall design.

3596 Backbone cables, and the connection between backbone cables and antenna cables, shall  
3597 be routed through an enclosure that matches the building's required fire-resistance rating  
3598 for shafts or interior exit stairways. Passage of the antenna distribution cable in and out  
3599 of the enclosure shall be protected as a penetration under the International Building Code.

3600 NEW SECTION. SECTION 188. There is hereby added to K.C.C. chapter 17.04  
3601 a new section to read as follows:

3602 Section 510.5 of the International Fire Code is supplemented with the following:

3603 **Identification Signs (IFC 510.5.7).** Emergency responder radio coverage  
3604 systems shall be identified by an approved sign located on or near the Fire Alarm Control

Ordinance 19485

---

3605 Panel, or other approved location, stating "This building is equipped with an Emergency  
3606 Responder Radio Coverage System. Control Equipment located in room\_\_\_\_." A sign  
3607 stating "Emergency Responder Radio Coverage System Equipment" shall be placed on or  
3608 adjacent to the door of the room containing the main system components.

3609 NEW SECTION. SECTION 189. There is hereby added to K.C.C. chapter 17.04  
3610 a new section to read as follows:

3611 Section 510.6.1 of the International Fire Code is not adopted and the following is  
3612 substituted:

3613 **Testing and proof of compliance (510.6.1).** The owner of the building or  
3614 owner's authorized agent shall have the emergency responder radio coverage system be  
3615 inspected and tested annually or when structural changes occur, including additions or  
3616 remodels that could materially change the original field performance tests. Testing shall  
3617 consist of the following:

3618 1. In-building coverage test as required by the fire marshal and as described in  
3619 IFC 510.5.3 or IFC 510.6.1.

3620 **EXCEPTION:** Group R Occupancy annual testing is not required within  
3621 dwelling units.

3622 2. Signal boosters shall be tested to verify that the gain or output level is the same  
3623 as it was upon initial installation and acceptance or set to optimize the performance of the  
3624 system. Altering of the distributed antenna systems (DAS) output from the initial  
3625 commissioning values shall require revalidation by the public safety radio operator.

3626 3. Backup batteries and power supplies shall be tested under load of a period of  
3627 one hour to verify that they will properly operate during an actual power outage. If

Ordinance 19485

---

3628 within the one-hour test period the battery exhibits symptoms of failure, the test shall be  
3629 extended for additional one-hour periods until the integrity of the battery can be  
3630 determined.

3631 4. If a fire alarm system is present in the building, a test shall be conducted to  
3632 verify that the fire alarm system is properly supervising the emergency responder  
3633 communication system as required in IFC 510.4.2.5. The test is performed by simulating  
3634 alarms to the fire alarm control panel. The certifications in IFC 510.5.2 are sufficient for  
3635 the personnel performing this testing.

3636 5. Other active components shall be checked to verify operation within the  
3637 manufacturer's specifications.

3638 6. At the conclusion of the testing, a report, which shall verify compliance with  
3639 IFC 510.6.1, shall be submitted to the fire marshal.

3640 7. At the conclusion of testing, a record of the inspection and maintenance along  
3641 with an updated grid diagram of each floor showing tested strengths in each grid square  
3642 and each critical fire service area shall be added to the documentation maintained on the  
3643 premises in accordance with IFC 510.5.3.

3644 NEW SECTION. SECTION 190. There is hereby added to K.C.C. chapter 17.04  
3645 a new section to read as follows:

3646 Section 510.6.1 of the International Fire Code is supplemented with the  
3647 following:

3648 **Alternative acceptance test procedure. (IFC 510.6.1.1).** When the  
3649 comprehensive test documentation required by IFC 510.5.3 is available, or the most

Ordinance 19485

---

3650 recent five-year test results are available if the system is older than six years, the in-  
3651 building coverage test required by IFC 510.6.1(1) may be conducted as follows:

3652 1. Functional talk-back testing shall be conducted using two calibrated portable  
3653 radios of the latest brand and model used by the agency's radio communications system  
3654 or other equipment approved by the fire marshal. Testing shall use Digital Audible  
3655 Quality (DAQ) metrics, where a passing result is a DAQ of 3.4 or higher.

3656 Communications between handsets in the following locations shall be tested: between the  
3657 fire command center or fire alarm control panel and a location outside the building; and  
3658 between the fire alarm control panel and each landing in each stairwell.

3659 2. Coverage testing of signal strength shall be conducted using a calibrated  
3660 spectrum analyzer for:

3661 a. The three grid areas to be tested on each floor are the three grid areas with  
3662 poorest performance in the acceptance test or the most recent annual test, whichever is  
3663 more recent;

3664 b. Each of the critical fire service areas identified in acceptance test  
3665 documentation required by IFC 510.5.3 or as modified by the fire marshal; and

3666 c. One grid square per serving antenna.

3667 3. The test area boundaries shall not deviate from the areas established at the time  
3668 of the acceptance test or as modified by the fire marshal. The building shall be  
3669 considered to have acceptable emergency responder radio coverage when the required  
3670 signal strength requirements in IFC 510.4.1.1 and 510.4.1.2 are located in 95 percent of  
3671 all areas on each floor of the building and 99 percent in critical fire service areas, and any  
3672 non-functional serving antenna are repaired to function within normal ranges. If the

Ordinance 19485

---

3673 documentation of the acceptance test or most recent previous annual test results are not  
3674 available or acceptable to the fire marshal, the radio coverage verification testing  
3675 described in IFC 510.5.3 shall be conducted.

3676 NEW SECTION. SECTION 191. There is hereby added to K.C.C. chapter 17.04  
3677 a new section to read as follows:

3678 Section 510.6.4 of the International Fire Code is not adopted and the following is  
3679 substituted:

3680 **Field Testing (IFC 510.6.4).** Department personnel shall have the right to enter  
3681 onto the property at any reasonable time to conduct field testing to verify the required  
3682 level of radio coverage or to disable a system that, due to malfunction or poor  
3683 maintenance, has the potential to impact the emergency responder radio system in the  
3684 region.

3685 NEW SECTION. SECTION 192. There is hereby added to K.C.C. chapter 17.04  
3686 a new section to read as follows:

3687 Section 901.1 of the International Fire Code is not adopted and the following is  
3688 substituted:

3689 **Scope (IFC 901.1).** This chapter specifies where fire protection and life safety  
3690 systems are required and applies to the design, installation, inspection, operation, testing  
3691 and maintenance of fire protection systems.

3692 **1. ADDITIONAL REQUIREMENTS.**

3693 1.1. The fire marshal retains the authority under the IFC to impose additional  
3694 conditions, including but not limited to increased setbacks, use of fire retardant materials  
3695 or standpipes where determined necessary to mitigate identified fire protection impacts.

Ordinance 19485

---

3696           1.2. This chapter applies to all buildings or structures undergoing a substantial  
3697 improvement as defined in K.C.C. chapter 21A.06.

3698           1.3. Any additions to an existing building or structure shall be considered new  
3699 construction and subject the entire structure to the provisions of this chapter.

3700           1.4. All condominiums shall have the following wording in the recorded  
3701 Declaration of Covenants and a copy of the document shall be provided to the fire  
3702 marshal:

3703           1.4.1 If any unit is equipped with a sprinkler system, nothing shall be hung  
3704 from the sprinklers comprising a part of the system nor shall any such sprinklers be  
3705 painted, covered or otherwise changed, tampered with or altered.

3706           1.4.2. Before any alteration, amendment, modification or change thereof, the  
3707 owners or their agents shall submit such alteration, amendment, modification or change  
3708 to the fire marshal for approval and agree to comply with all applicable sprinkler  
3709 requirements.

3710           SECTION 193. Ordinance 12560, Section 171, as amended, and K.C.C.  
3711 17.04.520 are hereby amended to read as follows:

3712           Section 903.1 of the International Fire Code is not adopted and the following is  
3713 substituted:

3714           **General (IFC 903.1).**

3715           1. An automatic fire-extinguishing system shall be installed in the occupancies  
3716 and locations ~~((as set forth))~~ in ~~((Section))~~ accordance with IFC 903.2.

3717           For provisions on special hazards and hazardous materials, see ~~((Section))~~ IFC  
3718 901.4.((3))4.

Ordinance 19485

---

3719           2. The provisions of this section shall apply to all buildings (~~whose county~~  
3720 ~~assessed value has increased by more than 50% within a five year period due to the added~~  
3721 ~~value of alterations and repairs. When the first permit application is submitted to add to,~~  
3722 ~~alter or repair an existing building, the county assessed value of the building at the time~~  
3723 ~~the complete application is submitted shall be considered the base county assessed value~~  
3724 ~~for the following five year period)) undergoing a substantial improvement as defined in  
3725 K.C.C. chapter 21A.06.~~

3726           (~~**(EXCEPTION:** Structures damaged as a result of a disaster declared in~~  
3727 ~~accordance with K.C.C. chapter 12.52, shall comply with K.C.C. 17.04.610 and~~  
3728 ~~17.04.620.))~~

3729           3. Any additions to an existing structure shall be considered new construction and  
3730 subject the entire structure to the provisions of this section.

3731           **EXCEPTION((S)):** A one-time exemption for buildings regulated by the  
3732 International Residential Code (~~(One and Two Family Dwellings will))~~ shall be allowed  
3733 for a single addition not to exceed 500 square feet, unless sprinklers or other fire  
3734 protection systems are required by other statutes.

3735           4. All condominiums shall have the following wording in the recorded  
3736 Declaration of Covenants and a copy of the document shall be provided to the fire (~~code~~  
3737 ~~official or designee)) marshal:~~

3738           4.1. (~~(In the event that a))~~ If any unit (~~(should be))~~ is equipped with a sprinkler  
3739 system, nothing shall be hung from the sprinklers comprising a part of the system nor  
3740 shall any such sprinklers be painted, covered(~~(;))~~) or otherwise changed, tampered with or  
3741 altered.

Ordinance 19485

---

3742 4.2. ~~((Prior to))~~ Before any alteration, amendment, modification or change  
3743 thereof, the owners or their agents ~~((will))~~ shall submit such alteration, amendment,  
3744 modification or change to the ~~((King County))~~ fire marshal ~~((or designee))~~ for approval  
3745 and agrees to comply with all applicable sprinkler requirements.

3746 SECTION 194. Ordinance 14111, Section 215, as amended, and K.C.C.  
3747 17.04.540 are hereby amended to read as follows:

3748 Section 903.2 of the International Fire Code is not adopted and the following is  
3749 substituted:

3750 **Where required (IFC 903.2).** Sprinklers are required as follows:

3751 1. For residential units and their accessory structures built under the International  
3752 Residential Code, sprinklers shall be installed ~~((as set forth))~~ in ~~((Section))~~ accordance  
3753 with IFC 903.2.1((3))1.

3754 2. For all other occupancies an automatic sprinkler system shall be installed in  
3755 ~~((the))~~ locations ~~((set forth))~~ in ~~((Section))~~ in accordance with IFC 903.2.1 through  
3756 ~~((Section))~~ 903.2.12.

3757 **EXCEPTION:** Spaces or areas in telecommunications buildings used  
3758 exclusively for telecommunications equipment, associated electrical power distribution  
3759 equipment, batteries and standby engines, ~~((provided))~~ if those spaces or areas are  
3760 equipped throughout with an automatic smoke detection system in accordance with  
3761 ~~((Section))~~ IFC 907.2 and are separated from the remainder of the building by not less  
3762 than 1-hour fire barriers constructed in accordance with ~~((Section))~~ IFC 707 or not less  
3763 than 2-hour horizontal assemblies constructed in accordance with ~~((Section))~~ IFC 711, or  
3764 both.

---

Ordinance 19485

---

3765           ~~((3. Sprinklers are required in all occupancies requiring 2,000 gallons per minute~~  
3766 ~~or more fire flow , or where the total floor area included within the surrounding exterior~~  
3767 ~~walls on all floor levels including basements exceeds 10,000 square feet.))~~

3768           SECTION 195. Ordinance 12560, Section 174, as amended, and K.C.C.  
3769 17.04.560 are hereby amended to read as follows:

3770           Section 903.2.11 of the International Fire Code is supplemented with the  
3771 following:

3772           ~~((Residential units and accessory))~~ **Habitable space of structures built under**  
3773 **the IRC (IFC 903.2.11.((7))8).** An automatic sprinkler system shall be installed in the  
3774 habitable space of structures built under the International Residential Code (IRC) ((as  
3775 follows)) when:

3776           1. ~~((The gross floor area exceeds 2,500 square (including attached garages)~~  
3777 ~~without adequate fire flow except as cited in K.C.C. 17.08.030;~~

3778           2. ~~There is no approved fire department access as defined in the King County~~  
3779 ~~road standards and IFC 503, as amended; or~~

3780           3. ~~If 2,000))~~ There is no approved fire access as defined in K.C.C. Title 14 and  
3781 IFC 503;

3782           2. The structure has a total floor area, including basements, that exceed 10,000  
3783 square feet; or:

3784           3. There is not:

3785           3.1 A minimum fire flow of 1,000 gallons per minute ~~((or more fire flow is~~  
3786 ~~required or where the total floor area included within the surrounding exterior walls on all~~

Ordinance 19485

---

3787 floor levels including basements exceeds 10,000 square feet. For townhouses, each unit  
3788 is considered a separate building)) as defined in IFC Appendix B; or

3789 3.2 A fire hydrant within 400 feet or 600 feet of the property line as outlined in  
3790 IFC 507.5.1.

3791 **EXCEPTION**((S: ~~Attached decks, exterior porches and carports open on two~~  
3792 ~~sides.~~

3793 ~~4. Where special hazards or unusual conditions exists in addition to the normal~~  
3794 ~~hazard of the space due to the design, size, volume or use of the space, the Fire Marshal~~  
3795 ~~is authorized to require additional safeguards suitable for the protection of the hazard or~~  
3796 ~~condition involved. Additional safeguards can consist of automatic fire alarm system,~~  
3797 ~~automatic sprinkler or water spray system, standpipe and hose, fixed or portable fire~~  
3798 ~~extinguishers, or other special fire extinguishing systems. Where such systems are~~  
3799 ~~provided, they shall be designed and installed in accordance with the International Fire~~  
3800 ~~Code.))): Structures are located on lots that:~~

3801 1. Are sized 35,000 square feet or larger;

3802 2. Are outside the Urban Growth Area; and

3803 .3. Have a residential use as the primary land use.

3804 NEW SECTION. SECTION 196. There is hereby added to K.C.C. chapter 17.04  
3805 a new section to read as follows:

3806 Section 903.2 of the International Fire Code is supplemented with the following:

3807 **Specific buildings areas and hazards - Buildings exceeding 10,000 square feet**

3808 **(IFC 903.2.13).** An automatic sprinkler system, installed in accordance with IFC 903.2,  
3809 901.4.3 and 901.4.4 shall be provided throughout all buildings where the total floor area,

---

Ordinance 19485

---

3810 including basements, exceeds 10,000 square feet. For purposes of this section, portions  
3811 of buildings separated by one or more fire walls shall not be considered a separate  
3812 building.

3813 Existing buildings shall comply with this section when an addition is made to the  
3814 building and the new total floor area, including basements, exceeds 10,000 square feet, or  
3815 an existing building exceeding 10,000 square feet is substantially improved as defined in  
3816 K.C.C. chapter 21A.06.

3817 NEW SECTION. SECTION 197. There is hereby added to K.C.C. chapter 17.04  
3818 a new section to read as follows:

3819 Section 903.3.1 of the International Fire Code is not adopted and the following is  
3820 substituted:

3821 **Installation requirements – standards (IFC 903.3.1).** Sprinkler systems shall  
3822 be designed and installed in accordance with IFC 903.3.1.1, unless otherwise permitted  
3823 by IFC 903.3.1.2, 903.3.1.3 and other chapters of this code, as applicable. In addition,  
3824 sprinkler systems shall be designed with a buffer to account for water system fluctuations  
3825 to include a low reservoir condition. Such buffer shall be five pounds per square inch  
3826 (PSI) for static pressures less than 50 PSI and 10 PSI for static pressures above 50 PSI.  
3827 Permit applicants shall independently verify site specific static pressure at the following  
3828 intervals:

- 3829 1. Before initiating sprinkler system;
- 3830 2. Before installing sprinkler piping, including the underground supply; and
- 3831 3. Before requesting a cover inspection.

Ordinance 19485

---

3832            NEW SECTION. SECTION 198. There is hereby added to K.C.C. chapter 17.04  
3833 a new section to read as follows:

3834            Section 903.4.3 of the International Fire Code is not adopted and the following is  
3835 substituted:

3836            **Floor control valves (IFC 903.4.3).** Approved supervised indicating control  
3837 valves shall be provided at the point of connection to the riser on each floor. The floor  
3838 control valves shall be located within stair enclosures and within six feet of floors or  
3839 landings unless chains or other approved devices are readily available.

3840            **EXCEPTION:** In buildings without stair enclosures, the location of the floor  
3841 control valves shall be determined by the fire marshal.

3842            NEW SECTION. SECTION 199. There is hereby added to K.C.C. chapter 17.04  
3843 a new section to read as follows:

3844            Section 903.5 of the International Fire Code is not adopted and the following is  
3845 substituted:

3846            **Testing and maintenance (IFC 903.5).** Sprinkler systems shall be tested and  
3847 maintained in accordance with IFC 901 and the following:

3848            1. Maintenance or testing discharges from a fire sprinkler system, standpipe or  
3849 fire pump shall be treated to comply with the National Pollution Discharge Elimination  
3850 System requirements.

3851            2. Water drained or otherwise discharged from a fire sprinkler system, standpipe  
3852 or fire pump is considered an illicit discharge, and shall drain to the sanitary sewer or be  
3853 treated prior to discharge to storm drains, ditches or water bodies.

Ordinance 19485

---

3854            NEW SECTION. SECTION 200. There is hereby added to K.C.C. chapter 17.04  
3855 a new section to read as follows:

3856            Section 905.3.1 of the International Fire Code is not adopted and the following is  
3857 substituted:

3858            **Height (IFC 905.3.1).** Class I standpipe systems shall be installed throughout  
3859 buildings where any of the following conditions exist:

- 3860            1. Four or more stories are above or below grade plane.
- 3861            2. The floor level of the highest story is located more than 30 feet (9144 mm)  
3862 above the lowest level of the fire apparatus access.
- 3863            3. The floor level of the lowest story is located more than 30 feet (9144 mm)  
3864 below the highest level of fire apparatus access.

3865            **EXCEPTIONS:**

- 3866            1. Class II standpipes may be used for hose connections in open parking garages  
3867 in accordance with IFC 905.5.
- 3868            2. In determining the lowest level of fire apparatus access, the following does not  
3869 apply:
  - 3870            2.1. Recessed loading docks for four vehicles or less.
  - 3871            2.2. Conditions where topography makes access from the fire apparatus to the  
3872 building impractical or impossible.

3873            SECTION 201. Ordinance 14111, Section 211, and K.C.C. 17.04.590 are hereby  
3874 amended to read as follows:

3875            Section 912.2 of the International Fire Code is supplemented with the following:

Ordinance 19485

---

3876           **Distance (IFC 912.2.3).** Fire ~~((department pumper))~~ apparatus connections shall  
3877 not be located on a building unless approved by the ~~((F))~~fire ~~((M))~~marshal, and shall be  
3878 located within 50 feet of a required fire hydrant.

3879           SECTION 202. Ordinance 5828, Section 3, and K.C.C. 17.08.020 are hereby  
3880 amended to read as follows:

3881           A. Subdivisions and short subdivisions are required to be provided with water  
3882 mains, and fire hydrants meeting IFC Appendix C, consistent with county standards and  
3883 state ~~((d))~~Department of ~~((s))~~Social and ~~((h))~~Health ~~((s))~~Services principles of water  
3884 system design as a condition of final plat or short plat approval unless exempt ~~((pursuant~~  
3885 ~~to Section))~~ under K.C.C. 17.08.030.

3886           B. All structures or additions thereto erected ~~((pursuant to))~~ under a building  
3887 permit ~~((and/or mobile home permit))~~ shall be served by operational water mains and fire  
3888 hydrants consistent with county standards ~~((prior to))~~ before:

3889           1. the ~~((commencement))~~ start or installation of combustible construction; or  
3890           2. ~~((prior to))~~ construction of a second floor if the building is noncombustible,  
3891 whichever occurs first, unless exempt ~~((pursuant to Section))~~ under K.C.C. 17.08.030.

3892           C. Mobile home parks and recreational vehicle parks shall be required to provide  
3893 water mains and fire hydrants consistent with county standards as a condition of final site  
3894 plan approval.

3895           D. Permits or approvals for uses not involving a structure shall be served by  
3896 water mains and fire hydrants consistent with county standards.

3897           E. All new water mains and all additions and extensions to existing water mains  
3898 shall meet the requirements of this chapter~~((, provided that))~~ if water mains which serve

---

Ordinance 19485

---

3899 only uses exempt ~~((pursuant to Section))~~ under K.C.C. 17.08.030 are also exempt from  
 3900 the requirements of this chapter.

3901 F. All water purveyor comprehensive plans approved ~~((pursuant to))~~ under  
 3902 K.C.C. ~~((€))~~chapter 13.24 shall be consistent with ~~((the provisions of))~~ this chapter.

3903 G. All water mains and fire hydrants shall be served by a water district or water  
 3904 purveyor in accordance with a current water comprehensive plan approved ~~((pursuant to))~~  
 3905 under K.C.C. ~~((€))~~chapter 13.24, or by other adequate means providing service levels  
 3906 consistent with the provisions of this ~~((€))~~chapter.

3907 SECTION 203. Ordinance 5828, Section 4, as amended, and K.C.C. 17.08.030  
 3908 are hereby amended to read as follows:

3909 A. The following permits and approvals are exempt from the ~~((water))~~ fire flow  
 3910 and fire hydrant requirements of this ~~((chapter))~~ title. These exemptions do not exempt any  
 3911 development from compliance with the requirements of state law.

3912 1. Subdivisions and short subdivisions located outside ~~((an))~~ the Urban Growth  
 3913 Area ~~((designated by the King County Comprehensive Plan))~~ and that do not contain a lot  
 3914 less than thirty-five thousand square feet in size.

3915 2. Building permits for ~~((single family, duplex detached dwellings and mobile~~  
 3916 ~~home permits for mobile homes not in mobile home parks,))~~ buildings with one or two  
 3917 dwelling units located outside ~~((an))~~ the Urban Growth Area ~~((designated by the King~~  
 3918 ~~County Comprehensive Plan))~~, only if the lot is at least thirty-five thousand square feet in  
 3919 size.

3920 3. ~~((-))~~Building permits for structures classified as Group U occupancies under the  
 3921 International Building Code that conform to the definition of agricultural buildings in

Ordinance 19485

---

3922 Appendix C of the International Building Code, only if the structures are located outside  
3923 ~~((an))~~ the Urban Growth Area ~~((designated by the King County Comprehensive Plan))~~.

3924 4. Building permits for structures that are:

3925 a. ~~((do not exceed))~~ two-thousand-five hundred square feet in floor area,

3926 ~~((excluding garages,))~~ or less;

3927 b. ~~((are))~~ served by a Group B water system; and

3928 c. ~~((are))~~ located outside ~~((an))~~ the Urban Growth Area.

3929 5. Building permits for structures that ~~((exceed the))~~ are more than two-thousand-  
3930 five hundred square feet ~~((limit provided for in subsection A.4.a. of this section, but~~  
3931 ~~empty))~~ in floor area (excluding garages) and comply with subsection A.4.b. and c. of this  
3932 section, shall be exempt ~~((from this chapter))~~ if the fire marshal determines that the project  
3933 will not create a substantial fire hazard.

3934 B. The fire marshal shall have the authority to impose conditions including, but not  
3935 limited to, increased setbacks, use of fire retardant materials or sprinkler system  
3936 requirements on permits exempt under subsection A. of this section where necessary to  
3937 mitigate identified fire hazards.

3938 C. Building permits ~~((and mobile home permits))~~ and subdivisions and short  
3939 subdivisions exempt under subsection A. of this section shall, as a condition of approval,  
3940 record a covenant running with the land which acknowledges the absence of fire hydrants  
3941 and by which owners of the property and their successors are deemed to have agreed to  
3942 participate in and not oppose or protest annexation to a public water district or the  
3943 formation of a utility local improvement district for installation of water mains and fire  
3944 hydrants consistent with applicable county standards. However, this condition shall not

Ordinance 19485

---

3945 apply (~~to any subdivision or short subdivision, or to any building permits and mobile home~~  
3946 ~~permits exempt under subsection A. of this section~~) when the lot is five acres or larger, or  
3947 the proposed subdivision, short subdivision or structure is located outside (~~an~~) the Urban  
3948 Growth Area (~~designated by the King County comprehensive plan~~).

3949 SECTION 204. Ordinance 19276, Section 9, and K.C.C. 17.11.060 are hereby  
3950 amended to read as follows:

3951 A. A violation of this chapter is a misdemeanor and is punishable as prescribed  
3952 by law.

3953 B. Notwithstanding any criminal penalty provided in this chapter, a person who  
3954 violates this chapter or chapter 70.77 RCW is subject to the maximum civil penalty in an  
3955 amount not to exceed two hundred fifty dollars per violation. In addition, a person in  
3956 violation of this chapter is responsible for any costs incurred to enforce this chapter,  
3957 including bringing a civil action, court costs and reasonable attorneys' fees. All civil  
3958 penalties assessed shall be enforced under K.C.C. Title 23.

3959 C. A person commits a separate offense for each day during (~~that~~) which the  
3960 person commits, continues or permits a violation of this chapter.

3961 D. The civil and criminal penalties described in subsections A. through C. of this  
3962 section shall not be enforced for violations of K.C.C. 17.11.040.B. as it pertains to the use  
3963 or discharge of consumer fireworks, as defined in RCW 70.77.136, until one year after  
3964 Ordinance 19276 takes effect under RCW 70.77.250. During the period in which these  
3965 penalties are not being enforced, the King County sheriff's office and the fire marshal  
3966 shall only issue warnings to violators of K.C.C. 17.11.040.B. and shall provide  
3967 information to violators on the county's laws governing fireworks.

---

Ordinance 19485

---

3968            SECTION 205. Ordinance 12196, Section 11, as amended, and K.C.C. 20.20.040  
3969 are hereby amended to read as follows:

3970            A. The department shall not (~~(commence)~~) begin review of any application (~~(as~~  
3971 ~~provided in this chapter)~~) until the applicant has submitted the materials and fees  
3972 specified for complete applications. Applications for land use permits requiring Type 1,  
3973 2, 3 or 4 decisions shall be considered complete as of the date of submittal upon  
3974 determination by the department that the materials submitted meet the requirements of  
3975 this section. Except as provided in subsection B. of this section, all land use permit  
3976 applications described in K.C.C. 20.20.020.E. shall include the following:

3977            1. An application form provided by the department and completed by the  
3978 applicant that allows the applicant to file a single application form for all land use permits  
3979 requested by the applicant for the development proposal at the time the application is  
3980 filed;

3981            2. Designation of who the applicant is, except that this designation shall not be  
3982 required as part of a complete application for purposes of this section when a public  
3983 agency or public or private utility is applying for a permit for property on which the  
3984 agency or utility does not own an easement or (~~(right-of-way)~~) right of way and the  
3985 following three requirements are met:

3986            a. the name of the agency or private or public utility is shown on the  
3987 application as the applicant;

3988            b. the agency or private or public utility includes in the complete application  
3989 an affidavit declaring that notice of the pending application has been given to all owners  
3990 of property to which the application applies, on a form provided by the department; and

Ordinance 19485

---

3991 c. the form designating who the applicant is submitted to the department before  
3992 permit approval;

3993 3.a. A certificate of sewer availability or site design approval for an on-site  
3994 sewage system by the Seattle-King County department of public health, as required by  
3995 K.C.C. Title 13; or

3996 b. If allowed under K.C.C. 13.24.134.B. and the King County Comprehensive  
3997 Plan policies for a public school located on a RA zoned site, a certificate of sewer  
3998 availability and a letter from the sewer utility indicating compliance with the tightline  
3999 sewer provisions in the zoning code, as required by K.C.C. chapter 13.24;

4000 4. If the development proposal requires a source of potable water, a current  
4001 certificate of water availability consistent with K.C.C. chapter 13.24 or documentation of  
4002 an approved well by ~~((the Seattle-King County department of))~~ public health - Seattle &  
4003 King County;

4004 5. A fire district receipt ~~((pursuant to))~~ in accordance with K.C.C. Title 17, if  
4005 required by K.C.C. chapter 21A.40;

4006 6. A site plan, prepared in a form prescribed by the director;

4007 7. Proof that the lot or lots to be developed are recognized as a lot under K.C.C.  
4008 Title 19A;

4009 8. A critical areas affidavit, if required by K.C.C. chapter 21A.24;

4010 9. A completed environmental checklist, if required by K.C.C. chapter 20.44;

4011 10. Payment of any development permit review fees, excluding impact fees  
4012 collectible ~~((pursuant to))~~ under K.C.C. Title 27;

Ordinance 19485

---

4013           11. A list of any permits or decisions applicable to the development proposal  
4014 that have been obtained before filing the application or that are pending before the county  
4015 or any other governmental entity;

4016           12. Certificate of transportation concurrency from the department of local  
4017 services if required by K.C.C. chapter 14.70. The certificate of transportation  
4018 concurrency may be for less than the total number of lots proposed by a preliminary plat  
4019 application only if:

4020           a. at least seventy-five percent of the lots proposed have a certificate of  
4021 transportation concurrency at the time of application for the preliminary plat;

4022           b. a certificate of transportation concurrency is provided for any remaining lots  
4023 proposed for the preliminary plat application before the expiration of the preliminary plat  
4024 and final recording of the additional lots; and

4025           c. the applicant signs a statement that the applicant assumes the risk that the  
4026 remaining lots proposed might not be granted.

4027           13. Certificate of future connection from the appropriate purveyor for lots  
4028 located within the ~~((u))~~Urban ~~((g))~~Growth ~~((a))~~Area that are proposed to be served by on-  
4029 site or community sewage system and group B water systems or private well, if required  
4030 by K.C.C. 13.24.136 through 13.24.140;

4031           14. A determination if drainage review applies to the project ~~((pursuant to))~~  
4032 under K.C.C. chapter 9.04 and, if applicable, all drainage plans and documentation  
4033 required by the Surface Water Design Manual adopted ~~((pursuant to))~~ under K.C.C.  
4034 chapter 9.04 and to the extent known at the time of application and when determined  
4035 necessary by the director, copies of any required storm water adjustments;

Ordinance 19485

---

4036           15. Current assessor's maps and a list of tax parcels to which public notice must  
4037 be given (~~as provided~~) in accordance with this chapter, for land use permits requiring a  
4038 Type 2, 3 or 4 decision;

4039           16. Legal description of the site;

4040           17. Variances obtained or required under K.C.C. Title 14 or 21A to the extent  
4041 known at the date of application or when deemed necessary by the director; and

4042           18. For site development permits only, a phasing plan and a time schedule, if the  
4043 site is intended to be developed in phases or if all building permits will not be submitted  
4044 within three years.

4045           B. A permit application is complete for purposes of this section when it meets the  
4046 procedural submission requirements of the department and is sufficient for continued  
4047 processing even though additional information may be required or project modifications  
4048 may be undertaken subsequently. The determination of completeness shall not preclude  
4049 the department from requesting additional information or studies either at the time of  
4050 notice of completeness or subsequently if new or additional information is required or  
4051 substantial changes in the proposed action occur, as determined by the department.

4052           C. Additional complete application requirements for the following land use  
4053 permits are in the following sections of the King County Code:

4054           1. Clearing and grading permits, K.C.C. 16.82.060(~~(-)~~);

4055           2. Construction permits, K.C.C. 16.04.052(~~(-)~~); and

4056           3. (~~Mobile home permits, K.C.C. 16.04.093.~~

4057           4.)) Subdivision applications, short subdivision applications and binding site  
4058 plan applications, K.C.C. 19A.08.150.

Ordinance 19485

---

4059 D. The director may;

4060 1. Specify the requirements of the site plan required to be submitted for various

4061 permits;

4062 2. Require additional materials not listed in this section when determined to be

4063 necessary for review of the project; and

4064 3. Waive any of the specific submittal requirements listed (~~herein~~) of this

4065 section that are determined to be unnecessary for review of an application.

4066 E. The applicant shall attest by written oath to the accuracy of all information

4067 submitted for an application.

4068 F. Applications shall be accompanied by the payment of the applicable filing

4069 fees, if any, as established by K.C.C. Title 27.

4070 SECTION 206. Ordinance 4461, Section 2, as amended, and K.C.C. 20.22.040

4071 are hereby amended to read as follows:

4072 The examiner shall issue final decisions in the following cases:

4073 A. Appeals of orders of the ombuds under the lobbyist disclosure code, K.C.C.

4074 chapter 1.07;

4075 B. Appeals of sanctions of the finance and business operations division in the

4076 department of executive services imposed under K.C.C. chapter 2.97;

4077 C. Appeals of career service review committee conversion decisions for part-time

4078 and temporary employees under K.C.C. chapter 3.12A;

4079 D. Appeals of electric vehicle recharging station penalties of the Metro transit

4080 department under K.C.C. 4A.700.700;

Ordinance 19485

---

4081 E. Appeals of notice and orders of the manager of records and licensing services  
4082 or the department of local services permitting division manager under K.C.C. chapter  
4083 6.01;

4084 F. Appeals of adult entertainment license denials, suspensions and revocations  
4085 under K.C.C. chapter 6.09;

4086 G. Appeals of the fire marshal's decisions on fireworks permits under K.C.C.  
4087 chapter 17.11;

4088 H. Appeals of cable franchise nonrenewals under K.C.C. 6.27A.060 and notices  
4089 and orders under K.C.C. 6.27A.240;

4090 I. Appeals of notices and orders of the department of natural resources and parks  
4091 under K.C.C. chapter 7.09;

4092 J. Appeals of decisions of the director of the department of natural resources and  
4093 parks on surface water drainage enforcement under K.C.C. chapter 9.04;

4094 K. Appeals of decisions of the director of the department of natural resources and  
4095 parks on requests for rate adjustments to surface and storm water management rates and  
4096 charges under K.C.C. chapter 9.08;

4097 L. Appeals of decisions on water quality enforcement under K.C.C. chapter 9.12;

4098 M. Appeals of notices and orders of the manager of animal control under K.C.C.  
4099 chapter 11.04;

4100 N. Certifications by the finance and business operations division of the  
4101 department of executive services involving K.C.C. chapter 12.16;

4102 O. Appeals of orders of the office of civil rights under K.C.C. chapter 12.17,  
4103 K.C.C. chapter 12.18, K.C.C chapter 12.20 and K.C.C. chapter 12.22;

Ordinance 19485

---

- 4104 P. Appeals of noise-related orders and citations of the department of local  
4105 services, permitting division, under K.C.C. chapter 12.86;
- 4106 Q. Appeals of utilities technical review committee determinations on water  
4107 service availability under K.C.C. 13.24.090;
- 4108 R. Appeals of decisions regarding mitigation payment system, commute trip  
4109 reduction and intersection standards under K.C.C. Title 14;
- 4110 S. Appeals of suspensions, revocations or limitations of plumbing permits (~~(or of~~  
4111 ~~decisions of the board of plumbing appeals))~~) under K.C.C. chapter 16.32;
- 4112 T. Appeals from denials of C-PACER applications under K.C.C. chapter 18.19;
- 4113 U. Appeals of all Type 2 decisions under K.C.C. chapter 20.20, with the  
4114 exception of appeals of shoreline permits, including shoreline substantial development  
4115 permits, shoreline variances and shoreline conditional uses, which are appealable to the  
4116 state Shoreline Hearings Board;
- 4117 V. Appeals of SEPA decisions, (~~(as provided in))~~ in accordance with K.C.C.  
4118 20.44.120 and public rules adopted under K.C.C. 20.44.075;
- 4119 W. Appeals of completed farm management plans under K.C.C. 21A.30.045;
- 4120 X. Appeals of decisions of the interagency review committee created under  
4121 K.C.C. 21A.37.070 regarding sending site applications for certification under K.C.C.  
4122 chapter 21A.37;
- 4123 Y. Appeals of citations, notices and orders, notices of noncompliance, stop work  
4124 orders issued (~~(pursuant to))~~ in accordance with K.C.C. Title 23 or Title 1.08 of the rules  
4125 and regulations of the King County board of health;

Ordinance 19485

---

4126 Z. Appeals of notices and certifications of junk vehicles to be removed as a  
4127 public nuisance ((as provided)) in accordance with K.C.C. Title 21A and K.C.C. chapter  
4128 23.10;

4129 AA. Appeals of decisions not to issue a citation or a notice and order under  
4130 K.C.C. 23.36.010.A.2;

4131 BB. Appeals of fee waiver decisions by the department of local services,  
4132 permitting division, ((as provided)) in accordance with K.C.C. 27.02.040;

4133 CC. Appeals from decisions of the department of natural resources and parks  
4134 related to permits, discharge authorizations, violations and penalties under K.C.C.  
4135 28.84.050 and 28.84.060;

4136 DD. Appeals of transit rider suspensions under K.C.C. 28.96.430;

4137 EE. Appeals of department of public safety seizures and intended forfeitures,  
4138 when properly designated by the chief law enforcement officer of the department of  
4139 public safety ((as provided)) in accordance with RCW 69.50.505; and

4140 FF. Other applications or appeals that are prescribed by ordinance.

4141 SECTION 207. Ordinance 13129, Section 6, and K.C.C. 21A.27.060 are hereby  
4142 amended to read as follows:

4143 The building permit shall become null and void if construction of the transmission  
4144 support structure has not begun within one year after the effective date of permit approval  
4145 or if antennas are not installed within one hundred eighty days after construction of the  
4146 transmission support structure. Extensions shall be allowed only in accordance with the  
4147 criteria specified for building permit extensions in K.C.C. ((16.04.05013)) 16.02.290.

4148 SECTION 208. Ordinance 10870, Section 523, as amended, and K.C.C.

---

Ordinance 19485

---

4149 21A.28.130 are hereby amended to read as follows:

4150 All new development shall be served by adequate fire protection as follows:

4151 A. The site of the development proposed is served by a water supply system that  
4152 provides at least minimum fire flow and ~~((-))a((;-))~~ road system or ~~((-))~~fire lane system that  
4153 provides life safety and rescue access, and other fire protection requirements for  
4154 buildings as required by K.C.C. Titles 16 and 17;

4155 B. For a zone reclassification or ~~((U))~~urban planned development, the timing of  
4156 installation of required fire protection improvements shall be stated in the approving  
4157 ordinance as specified in K.C.C. 20.22.250, secured with a bond or similar security, and  
4158 deposited with King County; and

4159 C. A variance request from the requirements established by K.C.C. Title 17, Fire  
4160 Code, shall be reviewed ~~((as set forth))~~ in accordance with K.C.C. 17.08.090 ~~((or K.C.C.~~  
4161 ~~17.10.040, and/))~~or ~~((in Article 2))~~ chapter 1 of the currently adopted edition of the  
4162 International Fire Code and does not require a variance from this title unless relief is  
4163 requested from a building height, setback, landscaping or other development standard  
4164 ~~((set forth))~~ in K.C.C. chapters 21A.12 through 21A.30.

4165 SECTION 209. Ordinance 13332, Section 16, as amended, and K.C.C. 27.10.010  
4166 are hereby amended to read as follows:

4167 Plan review fees shall compensate the department for the plan review necessary to  
4168 determine compliance with approved plans, adopted international codes and other county  
4169 regulations. The fees shall be collected to compensate the department for the review of:

4170 A. Commercial and residential building permit applications under K.C.C. chapters  
4171 16.04, ~~((16.70, 16.74,))~~ 16.78 and 17.04 and K.C.C. Titles 20 and 21A;

Ordinance 19485

---

- 4172 B. Grading and clearing permit applications under K.C.C. chapter 16.82;
- 4173 C. Shoreline permit applications and exemptions under K.C.C. Title 25;
- 4174 D. State Environmental Policy Act compliance under K.C.C. chapter 20.44;
- 4175 E. Critical areas under K.C.C. chapter 21A.24;
- 4176 F. Preliminary and final subdivisions and short subdivisions under K.C.C. Title
- 4177 19A;
- 4178 G. Binding site plan review under K.C.C. Title 19A;
- 4179 H. Boundary line adjustments under K.C.C. Title 19A;
- 4180 I. Variance requests, conditional use permits, zone reclassification requests, special
- 4181 use permits and temporary use permits under K.C.C. Title 21A;
- 4182 J. Right of way use permits under K.C.C. Title 14; and
- 4183 K. Drainage review under K.C.C. Title 9.

4184 SECTION 210. Ordinance 13332, Section 39, as amended, and K.C.C. 27.10.310  
4185 are hereby amended to read as follows:

4186 Construction and site development inspection fees shall compensate the department  
4187 for inspections necessary to determine compliance with adopted international codes and  
4188 other county regulations. The fees may be based on valuation as defined in this title, fixed  
4189 or both based on valuation and fixed. Fees shall be collected for reinspections and  
4190 supplemental inspections, as well as being collected to compensate the department for  
4191 inspection of:

- 4192 A. Commercial and residential buildings, additions, and under K.C.C. chapters
- 4193 16.04(~~(,16.70,16.74)~~) and 16.78 and K.C.C. Titles 20 and 21A;
- 4194 B. Grading and clearing sites under K.C.C. chapter 16.82;

Ordinance 19485

---

4195 C. Site development, including roads and drainage and erosion control under  
4196 K.C.C. Titles 9 and 14 and K.C.C. chapter 16.82;

4197 D. Shoreline permit approvals and exemptions under K.C.C. Title 25;

4198 E. State Environmental Policy Act condition compliance under K.C.C. chapter  
4199 20.48;

4200 F. Zoning condition compliance under K.C.C. Title 21A; and

4201 G. Monitoring drainage and sensitive area conditions.

4202 SECTION 211. The following are each hereby repealed:

4203 A. Ordinance 10608, Section 3, as amended, and K.C.C. 16.02.130;

4204 B. Ordinance 14914, Section 13, as amended, and K.C.C. 16.02.180;

4205 C. Ordinance 12560, Section 14, as amended, and K.C.C. 16.02.380;

4206 D. Ordinance 12560, Section 9, as amended, and K.C.C. 16.02.560;

4207 E. Ordinance 17837, Section 40, and K.C.C. 16.03.165;

4208 F. Ordinance 14914, Section 114, and K.C.C. 16.03.220;

4209 G. Ordinance 15802, Section 21, and K.C.C. 16.04.305;

4210 H. Ordinance 14914, Section 144, as amended, and K.C.C. 16.04.320;

4211 I. Ordinance 14914, Section 151, as amended, and K.C.C. 16.04.340;

4212 J. Ordinance 15802, Section 23, and K.C.C. 16.04.342;

4213 K. Ordinance 15802, Section 31, as amended, and K.C.C. 16.04.455;

4214 L. Ordinance 14914, Section 167, as amended, and K.C.C. 16.04.470;

4215 M. Ordinance 15802, Section 33, as amended, and K.C.C. 16.04.472;

4216 N. Ordinance 15802, Section 34 and K.C.C. 16.04.475;

4217 O. Ordinance 15802, Section 35 and K.C.C. 16.04.478;

Ordinance 19485

---

- 4218 P. Ordinance 12560, Section 56, as amended, and K.C.C. 16.04.500;
- 4219 Q. Ordinance 14914, Section 177, and K.C.C. 16.04.510;
- 4220 R. Ordinance 15802, Section 36, and K.C.C. 16.04.515;
- 4221 S. Ordinance 14914, Section 178, as amended, and K.C.C. 16.04.520;
- 4222 T. Ordinance 14914, Section 179, and K.C.C. 16.04.530;
- 4223 U. Ordinance 14914, Section 185, and K.C.C. 16.04.540;
- 4224 V. Ordinance 15802, Section 38, and K.C.C. 16.04.545;
- 4225 W. Ordinance 12560, Section 71, as amended, and K.C.C. 16.04.590;
- 4226 X. Ordinance 12560, Section 76, as amended, and K.C.C. 16.04.640;
- 4227 Y. Ordinance 12560, Section 77, as amended, and K.C.C. 16.04.650;
- 4228 Z. Ordinance 12560, Section 78, as amended, and K.C.C. 16.04.660;
- 4229 AA. Ordinance 12560, Section 79, as amended, and K.C.C. 16.04.670;
- 4230 BB. Ordinance 12560, Section 80, as amended, and K.C.C. 16.04.680;
- 4231 CC. Ordinance 12560, Section 81, as amended, and K.C.C. 16.04.690;
- 4232 DD. Ordinance 12560, Section 82, as amended, and K.C.C. 16.04.700;
- 4233 EE. Ordinance 12560, Section 99, as amended, and K.C.C. 16.04.870;
- 4234 FF. Ordinance 11622, Section 2, as amended, and K.C.C. 16.04.880;
- 4235 GG. Ordinance 3647, Section 8, and K.C.C. 16.04.910;
- 4236 HH. Ordinance 14914, Section 269, as amended, and K.C.C. 16.05.010;
- 4237 II. Ordinance 14914, Section 270, and K.C.C. 16.05.020;
- 4238 JJ. Ordinance 14914, Section 271, as amended, and K.C.C. 16.05.030;
- 4239 KK. Ordinance 14914, Section 273, as amended, and K.C.C. 16.05.050;
- 4240 LL. Ordinance 14914, Section 277, as amended, and K.C.C. 16.05.090;

Ordinance 19485

---

- 4241 MM. Ordinance 15802, Section 84, and K.C.C. 16.05.102;
- 4242 NN. Ordinance 15802, Section 86, and K.C.C. 16.05.104;
- 4243 OO. Ordinance 11797, Section 2, as amended, and K.C.C. 16.05.106;
- 4244 PP. Ordinance 2910, Section 4 (part), as amended, and K.C.C. 16.05.108;
- 4245 QQ. Ordinance 12560, Section 57, as amended, and K.C.C. 16.05.110;
- 4246 RR. Ordinance 11797, Section 1, as amended, and K.C.C. 16.05.120;
- 4247 SS. Ordinance 15802, Section 93, as amended, and K.C.C. 16.05.124;
- 4248 TT. Ordinance 11797, Section 3, as amended, and K.C.C. 16.05.127;
- 4249 UU. Ordinance 14238, Section 18, as amended, and K.C.C. 16.06.010;
- 4250 VV. Ordinance 14238, Section 19, as amended, and K.C.C. 16.06.020;
- 4251 WW. Ordinance 14238, Section 21, as amended, and K.C.C. 16.06.030;
- 4252 XX. Ordinance 14914, Section 288, as amended, and K.C.C. 16.06.031;
- 4253 YY. Ordinance 14914, Section 289, as amended, and K.C.C. 16.06.032;
- 4254 ZZ. Ordinance 14914, Section 290, as amended, and K.C.C. 16.06.033;
- 4255 AAA. Ordinance 14914, Section 291, as amended, and K.C.C. 16.06.034;
- 4256 BBB. Ordinance 14914, Section 292, as amended, and K.C.C. 16.06.035;
- 4257 CCC. Ordinance 14914, Section 293, and K.C.C. 16.06.036;
- 4258 DDD. Ordinance 14914, Section 294, and K.C.C. 16.06.037;
- 4259 EEE. Ordinance 14914, Section 295, and K.C.C. 16.06.038;
- 4260 FFF. Ordinance 14238, Section 21, as amended, and K.C.C. 16.06.040;
- 4261 GGG. Ordinance 14238, Section 22, as amended, and K.C.C. 16.06.050;
- 4262 HHH. Ordinance 14238, Section 23, as amended, and K.C.C. 16.06.060;
- 4263 III. Ordinance 14238, Section 24, as amended, and K.C.C. 16.06.070;

Ordinance 19485

---

- 4264 JJJ. Ordinance 14238, Section 25, as amended, and K.C.C. 16.06.080;
- 4265 KKK. Ordinance 14111, Section 118, as amended, and K.C.C. 16.12.010;
- 4266 LLL. Ordinance 15802, Section 103, and K.C.C. 16.12.012;
- 4267 MMM. Ordinance 14111, Section 129, and K.C.C. 16.14.010;
- 4268 NNN. Ordinance 14914, Section 340, and K.C.C. 16.14.070;
- 4269 OOO. Ordinance 14914, Section 341, and K.C.C. 16.14.080;
- 4270 PPP. Ordinance 12560, Section 116, as amended, and K.C.C. 16.14.120
- 4271 QQQ. Ordinance 12560, Section 118, as amended, and K.C.C. 16.14.130;
- 4272 RRR. Ordinance 14914, Section 354, and K.C.C. 16.14.160;
- 4273 SSS. Ordinance 14914, Section 355, and K.C.C. 16.14.170;
- 4274 TTT. Ordinance 12560, Section 119, as amended, and K.C.C. 16.14.180;
- 4275 UUU. Ordinance 14914, Section 358, and K.C.C. 16.14.190;
- 4276 VVV. Ordinance 12560, Section 136, as amended, and K.C.C. 16.14.230;
- 4277 WWW. Ordinance 12560, Section 137, as amended, and K.C.C. 16.14.240;
- 4278 XXX. Ordinance 14914, Section 368, and K.C.C. 16.14.260;
- 4279 YYY. Ordinance 14914, Section 369, and K.C.C. 16.14.270;
- 4280 ZZZ. Ordinance 14238, Section 5, as amended, and K.C.C. 16.14.300;
- 4281 AAAA. Ordinance 14238, Section 6, as amended, and K.C.C. 16.14.310;
- 4282 BBBB. Ordinance 14238, Section 7, as amended, and K.C.C. 16.14.320;
- 4283 CCCC. Ordinance 15802, Section 106, as amended, and K.C.C. 16.14.321;
- 4284 DDDD. Ordinance 14238, Section 8, as amended, and K.C.C. 16.14.330;
- 4285 EEEE. Ordinance 14238, Section 9, as amended, and K.C.C. 16.14.340;
- 4286 FFFF. Ordinance 14238, Section 10, as amended, and K.C.C. 16.14.350;

Ordinance 19485

---

- 4287 GGGG. Ordinance 14238, Section 11, as amended, and K.C.C. 16.14.360;
- 4288 HHHH. Ordinance 15802, Section 109, and K.C.C. 16.14.365;
- 4289 IIII. Ordinance 15802, Section 110, and K.C.C. 16.14.366;
- 4290 JJJJ. Ordinance 14238, Section 12, as amended, and K.C.C. 16.14.370;
- 4291 KKKK. Ordinance 14238, Section 13, as amended, and K.C.C. 16.14.380;
- 4292 LLLL. Ordinance 15802, Section 113, and K.C.C. 16.14.385;
- 4293 MMMM. Ordinance 14238, Section 14, as amended, and K.C.C. 16.14.390;
- 4294 NNNN. Ordinance 14238, Section 15, as amended, and K.C.C. 16.14.400;
- 4295 OOOO. Ordinance 14914, Section 396, and K.C.C. 16.14.420;
- 4296 PPPP. Ordinance 14914, Section 399, and K.C.C. 16.14.440;
- 4297 QQQQ. Ordinance 14914, Section 417, and K.C.C. 16.14.560;
- 4298 RRRR. Ordinance 8330, Section 34, as amended, and K.C.C. 16.32.085;
- 4299 SSSS. Ordinance 6746, Section 19, KCC 16.32.170;
- 4300 TTTT. Ordinance 15802, Section 120, and K.C.C. 16.32.175;
- 4301 UUUU. Ordinance 15802, Section 121, and K.C.C. 16.32.185;
- 4302 VVVV. Ordinance 15802, Section 125, and K.C.C. 16.32.225;
- 4303 WWWW. Ordinance 15802, Section 127, and K.C.C. 16.32.245;
- 4304 XXXX. Ordinance 15802, Section 129, and K.C.C. 16.32.265;
- 4305 YYYYY. Ordinance 15802, Section 134, as amended, and K.C.C. 16.32.315;
- 4306 ZZZZ. Ordinance 15802, Section 135, and K.C.C. 16.32.326;
- 4307 AAAAA. Ordinance 15802, Section 136, and K.C.C. 16.32.335;
- 4308 BBBBB. Ordinance 12560, Section 151, as amended, and K.C.C. 17.04.270;
- 4309 CCCCC. Ordinance 12560, Section 150, as amended, and K.C.C. 17.04.300;

Ordinance 19485

---

- 4310 DDDDD. Ordinance 12560, Section 158, as amended, and K.C.C. 17.04.340;
- 4311 EEEEE. Ordinance 12560, Section 159, as amended, and K.C.C. 17.04.350;
- 4312 FFFFF. Ordinance 12560, Section 162, as amended, and K.C.C. 17.04.360;
- 4313 GGGGG. Ordinance 14111, Section 201, as amended, and K.C.C. 17.04.430;
- 4314 HHHHH. Ordinance 12560, Section 170, as amended, and K.C.C. 17.04.440;
- 4315 IIIII. Ordinance 14111, Section 202, as amended, and K.C.C. 17.04.460;
- 4316 JJJJJ. Ordinance 14111, Section 203, as amended, and K.C.C. 17.04.470;
- 4317 KKKKK. Ordinance 14111, Section 205, as amended, and K.C.C. 17.04.480;
- 4318 LLLLL. Ordinance 14111, Section 213, as amended, and K.C.C. 17.04.490;
- 4319 MMMMM. Ordinance 14111, Section 206, as amended, and K.C.C. 17.04.500;
- 4320 NNNNN. Ordinance 14111, Section 210, as amended, and K.C.C. 17.04.510;
- 4321 OOOOO. Ordinance 15803, Section 26, as amended, and K.C.C. 17.04.522;
- 4322 PPPPP. Ordinance 6328, Section 4, as amended, and K.C.C. 17.04.530;
- 4323 QQQQQ. Ordinance 14915, Section 79, as amended, and K.C.C. 17.04.550;
- 4324 RRRRR. Ordinance 17837, Section 82, and K.C.C. 17.04.565;
- 4325 SSSSS. Ordinance 14111, Section 220, as amended, and K.C.C. 17.04.570;
- 4326 TTTTT. Ordinance 12560, Section 175, as amended, and K.C.C. 17.04.580;
- 4327 UUUUU. Ordinance 15803, Section 8, as amended, and K.C.C. 17.04.583;
- 4328 VVVVV. Ordinance 14238, Section 29, as amended, and K.C.C. 17.04.600;
- 4329 WWWW. Ordinance 14238, Section 30, as amended, and K.C.C. 17.04.610;
- 4330 XXXXX. Ordinance 14238, Section 31, as amended, and K.C.C. 17.04.620;
- 4331 YYYYY. Ordinance 8726, Section 1, as amended, and K.C.C. 17.04.630;
- 4332 ZZZZZ. Ordinance 5828, Section 2, and K.C.C. 17.08.010;

Ordinance 19485

---

- 4333           AAAAAA. Ordinance 5828, Section 5, as amended, and K.C.C. 17.08.040;
- 4334           BBBBBB. Ordinance 5828, Section 6, and K.C.C. 17.08.050;
- 4335           CCCCCC. Ordinance 5828, Section 7, and K.C.C. 17.08.060;
- 4336           DDDDDD. Ordinance 5828, Section 8, and K.C.C. 17.08.070;
- 4337           EEEEEE. Ordinance 5828, Section 9, and K.C.C. 17.08.080;
- 4338           FFFFFF. Ordinance 3087, Section 10, and K.C.C. 17.08.110;
- 4339           GGGGGG. Ordinance 3087, Section 11, and K.C.C. 17.08.120;
- 4340           HHHHHH. Ordinance 5828, Section 14, and K.C.C. 17.08.150; and
- 4341           IIIIII. Ordinance 7080, Section 2, and K.C.C. 17.08.160.
- 4342           SECTION 212. This ordinance takes effect January 1, 2023.
- 4343           SECTION 213. **Severability.** If any provision of this ordinance or its application

Ordinance 19485

---

4344 to any person or circumstance is held invalid, the remainder of the ordinance or the  
4345 application of the provision to other persons or circumstances is not affected.

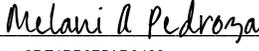
Ordinance 19485 was introduced on 9/21/2021 and passed as amended by the Metropolitan King County Council on 8/23/2022, by the following vote:

Yes: 9 - Balducci, Dembowski, Dunn, Kohl-Welles, Perry, McDermott, Upthegrove, von Reichbauer and Zahilay

KING COUNTY COUNCIL  
KING COUNTY, WASHINGTON

DocuSigned by:  
  
7E1C273CE9994B6...  
Claudia Balducci, Chair

ATTEST:

DocuSigned by:  
  
8DE1BB375AD3422...  
Melani Pedroza, Clerk of the Council

APPROVED this \_\_\_\_\_ day of 9/2/2022, \_\_\_\_\_.

DocuSigned by:  
  
4FBCAB8196AE4C6...  
Dow Constantine, County Executive

**Attachments:** None

**Certificate Of Completion**

Envelope Id: 742A0EAB98A8462AB43A18195EFCB139  
 Subject: Please DocuSign: Ordinance 19485.docx  
 Source Envelope:  
 Document Pages: 206  
 Certificate Pages: 5  
 AutoNav: Enabled  
 Envelope Stamping: Enabled  
 Time Zone: (UTC-08:00) Pacific Time (US & Canada)

Status: Completed  
 Envelope Originator:  
 Cherie Camp  
 401 5th Ave  
 Suite 100  
 Seattle, WA 98104  
 Cherie.Camp@kingcounty.gov  
 IP Address: 198.49.222.20

**Record Tracking**

Status: Original  
 8/24/2022 4:14:39 PM  
 Security Appliance Status: Connected  
 Storage Appliance Status: Connected  
 Holder: Cherie Camp  
 Cherie.Camp@kingcounty.gov  
 Pool: FedRamp  
 Pool: King County General (ITD)  
 Location: DocuSign  
 Location: DocuSign

**Signer Events**

Claudia Balducci  
 claudia.balducci@kingcounty.gov  
 Council Chair  
 King County General (ITD)  
 Security Level: Email, Account Authentication (None)

**Signature**

DocuSigned by:  
  
 7E1C273CE9994B6...  
 Signature Adoption: Pre-selected Style  
 Using IP Address: 107.122.81.118  
 Signed using mobile

**Timestamp**

Sent: 8/24/2022 4:16:53 PM  
 Viewed: 8/25/2022 2:59:03 PM  
 Signed: 8/25/2022 2:59:41 PM

**Electronic Record and Signature Disclosure:**  
 Not Offered via DocuSign

Melani A Pedroza  
 melani.pedroza@kingcounty.gov  
 Clerk of the Council  
 King County Council  
 Security Level: Email, Account Authentication (None)

DocuSigned by:  
  
 8DE1BB375AD3422...  
 Signature Adoption: Pre-selected Style  
 Using IP Address: 198.49.222.20

Sent: 8/25/2022 2:59:46 PM  
 Viewed: 8/25/2022 3:03:31 PM  
 Signed: 8/25/2022 3:03:42 PM

**Electronic Record and Signature Disclosure:**  
 Not Offered via DocuSign

Dow Constantine  
 Dow.Constantine@kingcounty.gov  
 Security Level: Email, Account Authentication (None)

DocuSigned by:  
  
 4FBCAB8196AE4C6...  
 Signature Adoption: Uploaded Signature Image  
 Using IP Address: 24.113.57.165

Sent: 8/25/2022 3:03:47 PM  
 Viewed: 9/2/2022 11:27:50 AM  
 Signed: 9/2/2022 11:28:07 AM

**Electronic Record and Signature Disclosure:**  
 Accepted: 9/2/2022 11:27:50 AM  
 ID: 58fc2478-9aa1-45dd-ab50-2a7b5a037385

In Person Signer Events	Signature	Timestamp
Editor Delivery Events	Status	Timestamp
Agent Delivery Events	Status	Timestamp
Intermediary Delivery Events	Status	Timestamp

Certified Delivery Events	Status	Timestamp
---------------------------	--------	-----------

Carbon Copy Events	Status	Timestamp
--------------------	--------	-----------

Kaitlyn Wiggins kwwiggins@kingcounty.gov Executive Legislative Coordinator King County Executive Office Security Level: Email, Account Authentication (None) <b>Electronic Record and Signature Disclosure:</b> Not Offered via DocuSign	<div style="border: 2px solid blue; padding: 5px; display: inline-block;"><b>COPIED</b></div>	Sent: 8/25/2022 3:03:47 PM Viewed: 8/25/2022 3:14:40 PM
--	---	--

Witness Events	Signature	Timestamp
----------------	-----------	-----------

Notary Events	Signature	Timestamp
---------------	-----------	-----------

Envelope Summary Events	Status	Timestamps
-------------------------	--------	------------

Envelope Sent	Hashed/Encrypted	8/24/2022 4:16:53 PM
Certified Delivered	Security Checked	9/2/2022 11:27:50 AM
Signing Complete	Security Checked	9/2/2022 11:28:07 AM
Completed	Security Checked	9/2/2022 11:28:07 AM

Payment Events	Status	Timestamps
----------------	--------	------------

Electronic Record and Signature Disclosure
--

## **ELECTRONIC RECORD AND SIGNATURE DISCLOSURE**

From time to time, Carahsoft OBO King County ITD (we, us or Company) may be required by law to provide to you certain written notices or disclosures. Described below are the terms and conditions for providing to you such notices and disclosures electronically through the DocuSign, Inc. (DocuSign) electronic signing system. Please read the information below carefully and thoroughly, and if you can access this information electronically to your satisfaction and agree to these terms and conditions, please confirm your agreement by clicking the 'I agree' button at the bottom of this document.

### **Getting paper copies**

At any time, you may request from us a paper copy of any record provided or made available electronically to you by us. You will have the ability to download and print documents we send to you through the DocuSign system during and immediately after signing session and, if you elect to create a DocuSign signer account, you may access them for a limited period of time (usually 30 days) after such documents are first sent to you. After such time, if you wish for us to send you paper copies of any such documents from our office to you, you will be charged a \$0.00 per-page fee. You may request delivery of such paper copies from us by following the procedure described below.

### **Withdrawing your consent**

If you decide to receive notices and disclosures from us electronically, you may at any time change your mind and tell us that thereafter you want to receive required notices and disclosures only in paper format. How you must inform us of your decision to receive future notices and disclosure in paper format and withdraw your consent to receive notices and disclosures electronically is described below.

### **Consequences of changing your mind**

If you elect to receive required notices and disclosures only in paper format, it will slow the speed at which we can complete certain steps in transactions with you and delivering services to you because we will need first to send the required notices or disclosures to you in paper format, and then wait until we receive back from you your acknowledgment of your receipt of such paper notices or disclosures. To indicate to us that you are changing your mind, you must withdraw your consent using the DocuSign 'Withdraw Consent' form on the signing page of a DocuSign envelope instead of signing it. This will indicate to us that you have withdrawn your consent to receive required notices and disclosures electronically from us and you will no longer be able to use the DocuSign system to receive required notices and consents electronically from us or to sign electronically documents from us.

### **All notices and disclosures will be sent to you electronically**

Unless you tell us otherwise in accordance with the procedures described herein, we will provide electronically to you through the DocuSign system all required notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to you during the course of our relationship with you. To reduce the chance of you inadvertently not receiving any notice or disclosure, we prefer to provide all of the required notices and disclosures to you by the same method and to the same address that you have given us. Thus, you can receive all the disclosures and notices electronically or in paper format through the paper mail delivery system. If you do not agree with this process, please let us know as described below. Please also see the paragraph immediately above that describes the consequences of your electing not to receive delivery of the notices and disclosures electronically from us.

**How to contact Carahsoft OBO King County ITD:**

You may contact us to let us know of your changes as to how we may contact you electronically, to request paper copies of certain information from us, and to withdraw your prior consent to receive notices and disclosures electronically as follows:

To contact us by email send messages to: bob.johnson@kingcounty.gov

**To advise Carahsoft OBO King County ITD of your new e-mail address**

To let us know of a change in your e-mail address where we should send notices and disclosures electronically to you, you must send an email message to us at bob.johnson@kingcounty.gov and in the body of such request you must state: your previous e-mail address, your new e-mail address. We do not require any other information from you to change your email address..

In addition, you must notify DocuSign, Inc. to arrange for your new email address to be reflected in your DocuSign account by following the process for changing e-mail in the DocuSign system.

**To request paper copies from Carahsoft OBO King County ITD**

To request delivery from us of paper copies of the notices and disclosures previously provided by us to you electronically, you must send us an e-mail to bob.johnson@kingcounty.gov and in the body of such request you must state your e-mail address, full name, US Postal address, and telephone number. We will bill you for any fees at that time, if any.

**To withdraw your consent with Carahsoft OBO King County ITD**

To inform us that you no longer want to receive future notices and disclosures in electronic format you may:

- i. decline to sign a document from within your DocuSign session, and on the subsequent page, select the check-box indicating you wish to withdraw your consent, or you may;
- ii. send us an e-mail to bob.johnson@kingcounty.gov and in the body of such request you must state your e-mail, full name, US Postal Address, and telephone number. We do not need any other information from you to withdraw consent.. The consequences of your withdrawing consent for online documents will be that transactions may take a longer time to process..

**Required hardware and software**

Operating Systems:	Windows® 2000, Windows® XP, Windows Vista®; Mac OS® X
Browsers:	Final release versions of Internet Explorer® 6.0 or above (Windows only); Mozilla Firefox 2.0 or above (Windows and Mac); Safari™ 3.0 or above (Mac only)
PDF Reader:	Acrobat® or similar software may be required to view and print PDF files
Screen Resolution:	800 x 600 minimum

Enabled Security Settings:	Allow per session cookies
----------------------------	---------------------------

\*\* These minimum requirements are subject to change. If these requirements change, you will be asked to re-accept the disclosure. Pre-release (e.g. beta) versions of operating systems and browsers are not supported.

**Acknowledging your access and consent to receive materials electronically**

To confirm to us that you can access this information electronically, which will be similar to other electronic notices and disclosures that we will provide to you, please verify that you were able to read this electronic disclosure and that you also were able to print on paper or electronically save this page for your future reference and access or that you were able to e-mail this disclosure and consent to an address where you will be able to print on paper or save it for your future reference and access. Further, if you consent to receiving notices and disclosures exclusively in electronic format on the terms and conditions described above, please let us know by clicking the 'I agree' button below.

By checking the 'I agree' box, I confirm that:

- I can access and read this Electronic CONSENT TO ELECTRONIC RECEIPT OF ELECTRONIC RECORD AND SIGNATURE DISCLOSURES document; and
- I can print on paper the disclosure or save or send the disclosure to a place where I can print it, for future reference and access; and
- Until or unless I notify Carahsoft OBO King County ITD as described above, I consent to receive from exclusively through electronic means all notices, disclosures, authorizations, acknowledgements, and other documents that are required to be provided or made available to me by Carahsoft OBO King County ITD during the course of my relationship with you.