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Sponsored by Ollis, Lear and McGull

First Reading November 4, 2019

Second Reading November 18, 2019

COUNCIL BILL 2019- 253

GENERAL ORDINANCE 6557

AN ORDINANCE

1 AMENDING Chapter 36 of the Springfield City Code, known as the 'Land Development
2 Code,' by repealing Article VIII, 'Plumbing Code,' in its entirety, and
3 enacting in lieu thereof a new Article VIII, 'Plumbing Code.'
4 (Recommended by Plans and Policies Committee.)
5
6

7 BE IT ORDAINED BY THE COUNCIL OF THE CITY OF SPRINGFIELD,
8 MISSOURI, as follows, that:
9

10 Section 1 – Springfield City Code, Chapter 36, Article VIII, 'Plumbing Code,' is
11 repealed in its entirety and a new Article VIII is enacted in lieu thereof, to read as
12 follows:
13

14 (Note: Language to be added is underlined and language being removed is ~~stricken~~.)
15

16 ARTICLE VIII. – PLUMBING CODE

17
18 Sec. 36-621. – Adoption of 2018 Plumbing Code.

19
20 City Council hereby adopts the 2018 International Plumbing Code as published by the
21 International Code Council, and all referenced standards therein as if spelled out in this
22 Ordinance, except such portions thereof as are hereinafter deleted, modified, or
23 amended, as Article VIII, 'Plumbing Code,' of Chapter 36 of the Springfield City Code,
24 known as the 'Land Development Code.' One (1) copy of said Code is on file in the
25 office of the City Clerk, Busch Municipal Building, 840 Boonville Avenue, Springfield,
26 Missouri.
27

28 Sec. 36-622. – Deletions, modifications, amendments and additions.

29
30 The 2018 International Plumbing Code as adopted is hereby amended and changed as
31 follows:
32

33 (a) Chapter 1 is repealed in its entirety because code enforcement is covered in

34 Springfield City Code Chapter 36, Land Development Code, Article I, Administration
35 and Enforcement of Codes and Article X, Uniform Enforcement Procedures.
36

37
38 (b) Because Chapter 1 is repealed in its entirety, any cross references to Chapter 1
39 in subsequent chapters are replaced by the provisions in Article I that
40 correspond, in content, to such cross references.
41

42 (c) All adopted chapters and appendices include all errata hereafter published by the
43 International Code Council after the date of the first printing of the 2018
44 International Plumbing Code.
45

46 305.4.1 Sewer depth. Building sewers that connect to private-sewage-disposal systems
47 shall be installed ~~not less than a minimum of~~ [NUMBER] 18 inches (mm) below finished
48 grade at the point of septic-tank connection. Building sewers shall be ~~a minimum of~~
49 installed not less than ~~[NUMBER] 12 inches (mm)~~ below grade.
50

51 312.1 Required tests. The permit holder shall make the applicable tests prescribed in
52 Sections 312.2 through 312.10 to determine compliance with the provisions of this code.
53 The permit holder shall give reasonable advance notice to the code official when the
54 plumbing work is ready for tests. The code official, or the code official's duly-authorized
55 representative, may witness or require verification of these tests. The equipment,
56 material, power, and labor necessary for the inspection and test shall be furnished by
57 the permit holder and he or she shall be responsible for determining that the work will
58 withstand the test pressure prescribed in the following tests. Plumbing-system piping
59 shall be tested with either water or, for piping systems other than plastic, by air. After
60 the plumbing fixtures have been set and their traps filled with water, the entire drainage
61 system shall be submitted to final tests. The code official shall require the removal of
62 any cleanouts, if necessary, to ascertain whether the pressure has reached all parts of
63 the system.
64

65 403.2 Separate facilities. Where plumbing fixtures are required, separate facilities shall
66 be provided for each sex.
67

68 Exceptions:

- 69
- 70 1. ~~Separate facilities shall not be required in structures or tenant spaces with a~~
71 ~~total occupant load, including both employees and customers, of 15 or fewer.~~
72 Except for mercantile uses, occupancies which do not serve food or
73 beverages to be consumed within the structure or tenant space, do not
74 require separate facilities when the total occupant load, including both
75 employees and customers, does not exceed 49.
76

77 410.4 Substitution.

78
79 Exception: In all use groups except Use Group A, where the occupant load is less than

80 49, a bottled water dispenser or water cooler with a minimum 2-gallon capacity may be
81 substituted for the required drinking fountain.

82

83 Section 504.7 Required pan

84

85 Exceptions:

86

87 1. A pan will not be required if the floor is concrete and a floor drain is adjacent
88 to the device or the floor is a slab-on-grade, concrete floor.

89

90 2. A pan will not be required on a water heater changeout if the pre-existing
91 conditions did not contain a pan.

92

93 ~~604.8 Water pressure-reducing valve or regulator. Where the water pressure within a~~
94 ~~building is expected to exceed 80 psi (552 kPa) static, an approved water pressure~~
95 ~~reducing valve conforming to ASSE 1003 or CSA B356 with strainer shall be installed to~~
96 ~~reduce the pressure in the building water distribution piping to not greater than 80 psi~~
97 ~~(552 kPa) static. An approved water-pressure-reducing valve conforming to ASSE 1003~~
98 ~~with strainer shall be installed to reduce the pressure in the building water distribution~~
99 ~~piping to 80 psi (552 kPa) static or less.~~

100

101 606.3 Access to valves. ~~Access-~~Ready access shall be provided to all required full-open
102 valves and shutoff valves.

103

104 608.1 General. A potable water supply system shall be designed, installed and
105 maintained in such a manner so as to prevent contamination from nonpotable liquids,
106 solids or gases being introduced into the potable and public water supply through cross
107 connections or any other piping connections to the system. Backflow preventer
108 applications shall conform to Table 608.1, except as specifically stated in Sections
109 608.2 through 608.17.10-, and Missouri Department of Natural Resources regulations
110 for backflow prevention in effect at the time of installation; where requirements differ the
111 requirement that provides the highest level of protection shall govern. Installation of a
112 backflow preventer is required as a condition for new systems not governed by the
113 residential code and for permitted modifications to an existing system not governed by
114 the residential code where more than four drainage fixture units, as defined in Table
115 709.1, are installed; the drainage fixture unit valve for a pot sink or three compartment
116 sink shall be defined as three fixture units. This backflow preventer shall be installed as
117 close as possible to the point where the potable water service enters the building or as
118 approved by the water purveyor. No branch lines or taps will be allowed between the
119 water meter and the backflow preventer. Backflow preventers shall be tested and
120 tagged prior to final plumbing inspection.

121

122 608.17.4

123

124 Exceptions:

125

126 2. ~~Isolation of the water distribution system is not required for deluge, precaution~~
127 ~~or dry pipe systems.~~

128
129 608.17.4.2 Location. All required automatic fire sprinkler and standpipe system backflow
130 preventers shall be located in accordance with the requirements of the water purveyor.
131 Location of backflow preventers shall be such that ready access for service and testing is
132 achieved.

133
134 Section 608.18 Protection of individual water supplies. An individual water supply shall
135 be located and constructed so as to be safeguarded against contamination in
136 accordance with ~~Sections 608.18.1 through 608.18.8.~~ standards established by the
137 Springfield-Greene County Health Department, the water purveyor, and/or the Missouri
138 Department of Natural Resources, for all site requirements related to protection of
139 individual, water-supply systems. The more restrictive provisions specified for health,
140 safety, and welfare shall apply whenever a conflict exists.

141
142 Subsections 608.18.1 through 608.18.8 are repealed in their entirety.

143
144 802.1.7 Food utensils, dishes, pots ~~and pans~~ sinks. Sinks, in other than dwelling units,
145 used for the washing, rinsing, or sanitizing of utensils, dishes, pots, or pans; or, service
146 ware, used in the preparation, serving, or eating of food, shall discharge indirectly
147 through an air gap or an air break to the drainage system. The drainage system
148 includes the grease interceptor.

149
150 903.1 Roof extension. Open vent pipes that extend through a roof shall be terminated
151 not less than ~~[NUMBER]~~ 12 inches above the roof. Where a roof is to be used for
152 assembly or as a promenade, observation deck, sunbathing deck, or similar purposes,
153 open vent pipes shall terminate not less than 7 feet (2134 mm) above the roof.

154
155 918.3 Where permitted. Individual, branch, and circuit vents shall be permitted to
156 terminate with a connection to an individual or branch-type-air-admittance valve in
157 accordance with Section 918.3.1 only with approval from the code official or the code
158 official's duly authorized representative, prior to design or installation. Stack vents and
159 vent stacks shall be permitted to terminate to stack-type-air-admittance valves in
160 accordance with Section 918.3.2 only with approval from the code official or the code
161 official's duly authorized representative prior to design or installation. The use of air-
162 admittance valves shall be permitted only in the remodel of existing buildings and shall
163 not be permitted in new structures and building additions, except for island fixtures,
164 unless otherwise approved by the code official or the code official's duly authorized
165 representative, prior to design or installation. Requests for approval shall be submitted
166 separately in writing.

167
168 1003.3 Grease interceptors. Grease interceptors shall comply with the requirements of
169 Sections 1003.3.1 through 1003.3.8. ~~and The grease interceptor shall meet the~~
170 requirements and guidelines of the City of Springfield Fats, Oils, and Grease ("FOG")
171 Management Plan, based on the anticipated conditions of use, and shall be subject to

172 the approval of Clean Water Services.

173

174 1003.3.1 Grease interceptors and automatic grease removal devices required. A grease
175 interceptor or an automatic, grease-removal device shall be required to receive the
176 drainage from fixtures and equipment with grease-laden waste located in food
177 preparation areas, such as in restaurants, hotel kitchens, hospitals, school kitchens,
178 bars, factory cafeterias, daycare centers, and clubs. Fixtures and equipment shall
179 include: mop sinks; kitchen floor drains and sinks; culinary sinks; hand sinks; pot sinks;
180 prerinse sinks; soup kettles or similar devices; wok stations; floor drains or sinks into
181 which kettles are drained; automatic hood wash units and dishwashers without prerinse
182 sinks. Grease interceptors and automatic grease removal devices shall receive waste
183 only from fixtures and equipment that allow fats, oils, or grease to be discharged. Where
184 the lack of space or other constraints prevent the installation or replacement of a grease
185 interceptor, one or more grease interceptors shall be permitted to be installed on or
186 above the floor and upstream of an existing grease interceptor.

187

188 1003.3.2 Food waste disposers restriction. A food-waste disposer shall not discharge to
189 a grease interceptor through a solids separator.

190

191 1003.3.3 Additives to grease interceptors. Dispensing systems that dispense interceptor
192 performance additives to a grease interceptor shall not be installed. Systems that
193 discharge emulsifiers, chemicals or enzymes to grease interceptors are prohibited.

194

195 1003.3.7 Gravity grease interceptors and gravity grease interceptors with fats, oils, and
196 greases disposal systems. The required capacity of gravity grease interceptors and
197 gravity grease interceptors with fats, oils, and greases disposal systems shall be
198 determined by multiplying the peak drain flow into the interceptor in gallons per minute
199 by a retention time of 30 minutes. Gravity grease interceptors shall be designed and
200 tested in accordance with IAPMO/ANSI Z1001. Gravity grease interceptors with fats,
201 oils, and greases disposal systems shall be designed and tested in accordance with
202 ASME A112.14.6 and IAPMO/ANSI Z1001. Gravity grease interceptors and gravity
203 grease interceptors with fats, oils, and greases disposal systems shall be installed in
204 accordance with manufacturer's instructions. Where manufacturer's instructions are not
205 provided, gravity grease interceptors and gravity grease interceptors with fats, oils, and
206 greases disposal systems shall be installed in compliance with ASME A112.14.6 and
207 IAPMO/ANSI Z1001. Concrete grease interceptors are prohibited.

208

209 1003.11 Sampling manhole. A sampling manhole shall be installed for all required
210 interceptors in accordance with City of Springfield Public Works standard details to
211 monitor the entire building, or to monitor individual tenant space as determined by Clean
212 Water Services.

213

214 1202.2 The installation and inspection of all medical gases must be performed by a
215 person who carries a National Inspection Testing & Certification Corporation ("NITC")
216 6010 Medical Gas Installer Certification or an equivalent certification as approved by the
217 code official.

218
219 1202.3 The final inspection of a medical-gas system shall be performed as a special
220 inspection by a person who carries a National Inspection Testing & Certification
221 Corporation (“NITC”) 6020 Medical Gas Inspector Certification or an equivalent
222 certification as approved by the code official. This final special inspection must be
223 submitted to the plumbing inspector for approval before the final plumbing inspection
224 can be performed.

225
226 All language referring to flood-hazard areas is repealed and replaced with:

227
228 All structures located within a designated flood hazard area shall comply with Chapter
229 36, Article XVII of the Springfield City Code.

230
231 Sec. 36-623. – Adoption of appendices.

232
233 By adoption of the 2018 International Plumbing Code, the following appendices are part
234 of this Code.

- 235
236 Appendix B: Rates of Rainfall for Various Cities
237 Appendix C: Structural Safety
238 Appendix D: Degree Day and Design Temperatures
239 Appendix E: Sizing of Water Piping System

240
241 Sec. 36-624. – Penalty clause.

242
243 Any person convicted of: violating this Ordinance; failing to comply with any order
244 issued under it; or, erecting, constructing, altering, or repairing a building, structure, or
245 system in violation of an approved plan or directive of the code official or of a permit or
246 certificate issued under these codes shall be punished as provided in section 1-7 of the
247 City Code. A fine must be at least \$200.00 for the first offense, \$400.00 for the second
248 offense, and \$500.00 for every offense thereafter. Notice under section 36-166 is not
249 necessary to prosecute a violation of any provision of this article or these codes, unless
250 the violation involves failure to comply with an order. Each day a violation continues is a
251 separate offense.

252
253 Section 2 – Savings Clause. Nothing in this Ordinance shall be construed to
254 affect any suit or proceeding now pending in any court or any rights acquired or liability
255 incurred nor any cause or causes of action accrued or existing, under any act or
256 ordinance repealed hereby, or shall any right or remedy of any character be lost,
257 impaired, or affected by this Ordinance.

258
259 Section 3 – Severability Clause. If any section, subsection, sentence, clause, or
260 phrase of this Ordinance is for any reason held to be invalid, such decision shall not
261 affect the validity of the remaining portions of this Ordinance. Council hereby declares
262 that it would have adopted the ordinance and each section, subsection, sentence,
263 clause, or phrase thereof, irrespective of the fact that any one or more sections,

264 subsections, sentences, clauses, or phrases be declared invalid.

265

266 Section 4 – This Ordinance shall be in full force and effect 90 days from and after
267 passage by City Council.

268

269 Passed at meeting: November 18, 2019

270

271



Mayor

272

273

274 Attest: Anita J Cotter, City Clerk

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276 Filed as Ordinance: November 18, 2019

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278

279 Approved as to form: Duke M Donald, Assistant City Attorney

280

281

282 Approved for Council action: Jason A. Page, City Manager

EXPLANATION TO COUNCIL BILL 2019- 253

FILED: 10-29-19

ORIGINATING DEPARTMENT: Building Development Services

PURPOSE: Amending Chapter 36 of the Springfield City Code, known as the 'Land Development Code,' by repealing Article VIII, 'Plumbing Code,' in its entirety, and enacting in lieu thereof a new Article VIII, 'Plumbing Code.' (Recommended by Plans and Policies Committee.)

BACKGROUND AND REMARKS: The current plumbing code enforced by the City is the 2012 International Plumbing Code. With the adoption of the 2018 International Plumbing Code, the City will be adopting the most up-to-date, nationally-recognized, plumbing code.

The provisions contained within this Ordinance do not unnecessarily increase construction costs; do not restrict the use of new materials, productions, or methods of construction; and do not give preferential treatment to types or classes of materials, products, or methods of construction.

The proposed Ordinance was presented to the Plans and Policies Committee on October 17, 2019, and approved by Councilman Ollis, Councilman Lear and Councilman McGull.


The Building Development Services Department ("BDS") has met with representatives of the local design and construction industry over the course of the past several months to discuss the ramifications of adopting this new code. Comments were requested from designers, electricians, plumbers, mechanical contractors, gas fitters, general contractors, developers, and others that may be affected by the adoption of this code. The language of this Ordinance was placed on the City website for review by the members of the Home Builders Association, Springfield Contractors Association, Missouri Society of Professional Engineers, and the local chapter of the American Institute of Architects.

Submitted by:



Harlan Hill, Director
Building Development Services

Approved by:



Jason Gage,
City Manager