Senator Karen Mayne proposes the following substitute bill:

1	STATE BUILDING CODE AMENDMENTS					
2	2018 GENERAL SESSION					
3	STATE OF UTAH					
4	Chief Sponsor: Karen Mayne					
5	House Sponsor: Mike Schultz					
6 7	LONG TITLE					
8	General Description:					
9	This bill amends Statewide Amendments Incorporated as Part of State Construction					
10	Code.					
11	Highlighted Provisions:					
12	This bill:					
13	• amends a provision of the International Building Code to provide that an individual					
14	who performs fireproof coating may obtain certain certification;					
15	▶ amends a provision of the International Residential Code regarding when a drainage					
16	system is not required; and					
17	 makes technical and conforming changes. 					
18	Money Appropriated in this Bill:					
19	None					
20	Other Special Clauses:					
21	None					
22	Utah Code Sections Affected:					
23	AMENDS:					
24	15A-3-104, as last amended by Laws of Utah 2016, Chapter 249					
25	15A-3-202, as last amended by Laws of Utah 2017, Chapter 236					





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27	Be it enacted by the Legislature of the state of Utah:
28	Section 1. Section 15A-3-104 is amended to read:
29	15A-3-104. Amendments to Chapters 7 through 9 of IBC.
30	(1) In IBC, Section $\hat{S} \rightarrow [703.2.3]$ 704.13.2 $\leftarrow \hat{S}$, the following sentence is added to the end
30a	of the section:
31	"An individual spraying fire-resistant materials may obtain a certificate that demonstrates that
32	the individual has undergone training on how to spray fire-resistant materials to manufacturer's
33	specifications."
34	[(1)] (2) IBC, Section (F)901.8, is deleted and replaced with the following: "(F)901.8
35	Pump and riser room size. Fire pump and automatic sprinkler system riser rooms shall be
36	designed with adequate space for all installed equipment necessary for the installation and to
37	provide sufficient working space around the stationary equipment. Clearances around
38	equipment shall be in accordance with manufacturer requirements and not less than the
39	following minimum elements:
40	901.8.1 A minimum clear and unobstructed distance of 12-inches shall be provided from the
41	installed equipment to the elements of permanent construction.
42	901.8.2 A minimum clear and unobstructed distance of 12-inches shall be provided between
43	all other installed equipment and appliances.
44	901.8.3 A clear and unobstructed width of 36-inches shall be provided in front of all installed
45	equipment and appliances, to allow for inspection, service, repair or replacement without
46	removing such elements of permanent construction or disabling the function of a required
47	fire-resistance-rated assembly.
48	901.8.4 Automatic sprinkler system riser rooms shall be provided with a clear and
49	unobstructed passageway to the riser room of not less than 36-inches, and openings into the
50	room shall be clear and unobstructed, with doors swinging in the outward direction from the
51	room and the opening providing a clear width of not less than 34-inches and a clear height of
52	the door opening shall not be less than 80-inches.
53	901.8.5 Fire pump rooms shall be provided with a clear and unobstructed passageway to the
54	fire pump room of not less than 72-inches, and openings into the room shall be clear,
55	unobstructed and large enough to allow for the removal of the largest piece of equipment, with
56	doors swinging in the outward direction from the room and the opening providing a clear width

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- of not less than 68-inches and a clear height of the door opening shall not be less than
- 58 80-inches."
- 59 $\left[\frac{(2)}{(2)}\right]$ In IBC, Section (F)903.2.2, the words "the entire floor" are deleted and
- replaced with "a building" and the last paragraph is deleted.
- 61 [(3)] (4) IBC, Section (F)903.2.4, condition 2, is deleted and replaced with the
- 62 following: "2. A Group F-1 fire area is located more than three stories above the lowest level
- of fire department vehicle access."
- [(4)] (5) IBC, Section (F)903.2.7, condition 2, is deleted and replaced with the
- 65 following: "2. A Group M fire area is located more than three stories above the lowest level of
- 66 fire department vehicle access."
- 67 [(5)] (6) IBC, Sections (F)903.2.8, (F)903.2.8.1, (F)903.2.8.2, and (F)903.2.8.4, are
- deleted and replaced with the following: "(F)903.2.8 Group R. An automatic sprinkler system
- 69 installed in accordance with Section 903.3 shall be provided throughout all buildings with a
- 70 Group R fire area.
- 71 Exceptions:
- 72 1. Detached one- and two-family dwellings and multiple single-family dwellings (townhouses)
- constructed in accordance with the International Residential Code For One- and Two-Family
- 74 Dwellings.
- 75 2. Single story Group R-1 occupancies with fire areas not more than 2,000 square feet that
- contain no installed plumbing or heating, where no cooking occurs, and constructed of Type
- 77 I-A, I-B, II-A, or II-B construction."
- 78 [(6)] (7) IBC, Sections (F)903.2.8.3 and (F)903.2.8.3.1, are renumbered to (F)903.2.8.1
- 79 and (F)903.2.8.1.1.
- [(7)] (8) IBC, Section (F)903.2.8.3.2, is renumbered to (F)903.2.8.1.2 and the
- 81 following exception is added:
- 82 "Exception: Group R-4 fire areas not more than 4,500 gross square feet and not containing
- more than 16 residents, provided the building is equipped throughout with an approved fire
- 84 alarm system that is interconnected and receives its primary power from the building wiring
- and a commercial power system."
- 86 [(8)] (9) IBC, Section (F)903.2.8.4, is deleted.
- [(9)] (10) IBC, Section (F)903.2.9, condition 2, is deleted and replaced with the

88 following: "2. A Group S-1 fire area is located more than three stories above the lowest level 89 of fire department vehicle access." 90 [(10)] (11) IBC, Section (F)904.12, is deleted and replaced with the following: " (F)904.12 Commercial cooking systems. The automatic fire-extinguishing system for 91 commercial cooking systems shall be of a type recognized for protection of commercial 92 93 cooking equipment and exhaust systems. Pre-engineered automatic extinguishing systems shall be tested in accordance with UL 300 and listed and labeled for the intended application. 94 95 The system shall be installed in accordance with this code, its listing and the manufacturer's 96 installation instructions. 97 Exception: Factory-built commercial cooking recirculating systems that are tested in 98 accordance with UL 710B and listed, labeled, and installed in accordance with Section 304.1 of 99 the International Mechanical Code." 100 [(11)] (12) IBC, Sections (F)904.12.3, (F)904.12.3.1, (F)904.12.4, and (F)904.12.4.1, 101 are deleted. [(12)] (13) In IBC, Section 905, a new subsection, Section (F)905.3.9, is added as 102 103 follows: 104 "Open Parking Garages. Open parking garages shall be equipped with an approved Class 1 manual standpipe system when fire department access is not provided for firefighting 105 106 operations to within 150 feet of all portions of the open parking garage as measured from the 107 approved fire department vehicle access. Class 1 manual standpipe shall be accessible 108 throughout the parking garage such that all portions of the parking structure are protected 109 within 150 feet of a hose connection." 110 [(13)] (14) In IBC, Section (F)905.8, the exception is deleted and replaced with the 111 following: "Exception: Where subject to freezing and approved by the fire code official." 112 113 [(14)] (15) In IBC, Section (F)907.2.3 Group E, the first sentence is deleted and 114 rewritten as follows: "A manual fire alarm system that activates the occupant notification system in accordance with Section (F)907.5 shall be installed, in accordance with Section 115 116 (F)907.6 and administrative rules made by the State Fire Prevention Board in Group E 117 occupancies." 118 [(15)] (16) IBC, Sections (F)915 through (F)915.6, are deleted and replaced with the

- 119 following:
- 120 "(F)915 Where required.
- Group I-1, I-2, I-4, and R occupancies located in a building containing a fuel-burning appliance
- or in a building that has an attached garage shall be equipped with single-station carbon
- monoxide alarms. The carbon monoxide alarms shall be listed as complying with UL 2034 or
- 124 UL 2075 and be installed and maintained in accordance with NFPA 720 and the manufacturer's
- instructions. An open parking garage, as defined in Chapter 2, or an enclosed parking garage,
- ventilated in accordance with Section 404 of the International Mechanical Code, shall not be
- 127 considered an attached garage. A minimum of one carbon monoxide alarm shall be installed
- on each habitable level.
- (F)915.1 Interconnection.
- Where more than one carbon monoxide alarm is required to be installed within Group I-1, I-2,
- 131 I-4, or R occupancies, the carbon monoxide alarm shall be interconnected in such a manner that
- the activation of one alarm will activate all of the alarms. Physical interconnection of carbon
- monoxide alarms shall not be required where listed wireless alarms are installed and all alarms
- sound upon activation of one alarm. The alarm shall be clearly audible in all bedrooms over
- background noise levels with all intervening doors closed.
- 136 (F)915.2 Power source.
- In new construction, required carbon monoxide alarms shall receive their primary power from
- the building wiring where such wiring is served from a commercial source and shall be
- equipped with a battery backup. Carbon monoxide alarms with integral strobes that are not
- equipped with a battery backup shall be connected to an emergency electrical system. Carbon
- monoxide alarms shall emit a signal when the batteries are low. Wiring shall be permanent and
- without a disconnecting switch other than as required for overcurrent protection.
- Exceptions.
- 1. Carbon monoxide alarms are not required to be equipped with a battery backup where they
- are connected to an emergency electrical system.
- 146 2. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the
- alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing
- the structure, unless there is an attic, crawl space, or basement available that could provide
- access for hard wiring without the removal of interior finishes.

150	(F)915.3 Group E.					
151	A carbon monoxide detection system shall be installed in new buildings that contain Group E					
152	occupancies in accordance with IFC, Chapter 9, Section 915. A carbon monoxide detection					
153	system shall be installed in existing buildings that contain Group E occupancies in accordance					
154	with IFC, Chapter 11, Section 1103.9.					
155	(F)915.3.1 Where required.					
156	In Group E occupancies, a carbon monoxide detection system shall be provided where a					
157	fuel-burning appliance, a fuel-burning fireplace, or a fuel-burning forced air furnace is present.					
158	(F)915.3.2 Detection equipment.					
159	Each carbon monoxide detection system shall be installed in accordance with NFPA 720 and					
160	the manufacturer's instructions and be listed as complying with, for single station detectors, UI					
161	2034 and, for system detectors, UL 2075.					
162	(F)915.3.3 Locations.					
163	Each carbon monoxide detection system shall be installed in the locations specified in NFPA					
164	720.					
165	(F)915.3.4 Combination detectors.					
166	A combination carbon monoxide/smoke detector is an acceptable alternative to a carbon					
167	monoxide detection system if the combination carbon monoxide/smoke detector is listed in					
168	accordance with UL 2075 and UL 268.					
169	(F)915.3.5 Power source.					
170	Each carbon monoxide detection system shall receive primary power from the building wiring					
171	if the wiring is served from a commercial source. If primary power is interrupted, each carbo					
172	monoxide detection system shall receive power from a battery. Wiring shall be permanent ar					
173	without a disconnecting switch other than that required for overcurrent protection.					
174	(F)915.3.6 Maintenance.					
175	Each carbon monoxide detection system shall be maintained in accordance with NFPA 720. A					
176	carbon monoxide detection system that becomes inoperable or begins to produce end of life					
177	signals shall be replaced."					
178	Section 2. Section 15A-3-202 is amended to read:					
179	15A-3-202. Amendments to Chapters 1 through 5 of IRC.					
180	(1) In IRC, Section R102, a new Section R102.7.2 is added as follows: "R102.7.2					

- Physical change for bedroom window egress. A structure whose egress window in an existing bedroom is smaller than required by this code, and that complied with the construction code in effect at the time that the bedroom was finished, is not required to undergo a physical change to conform to this code if the change would compromise the structural integrity of the structure or could not be completed in accordance with other applicable requirements of this code, including setback and window well requirements."
 - (2) In IRC, Section 109:
- (a) A new IRC, Section 109.1.5, is added as follows: "R109.1.5 Weather-resistant exterior wall envelope inspections. An inspection shall be made of the weather-resistant exterior wall envelope as required by Section R703.1 and flashings as required by Section R703.8 to prevent water from entering the weather-resistive barrier."
- (b) The remaining sections are renumbered as follows: R109.1.6 Other inspections; R109.1.6.1 Fire- and smoke-resistance-rated construction inspection; R109.1.6.2 Reinforced masonry, insulating concrete form (ICF) and conventionally formed concrete wall inspection; and R109.1.7 Final inspection.
- (3) IRC, Section R114.1, is deleted and replaced with the following: "R114.1 Notice to owner. Upon notice from the building official that work on any building or structure is being prosecuted contrary to the provisions of this code or other pertinent laws or ordinances or in an unsafe and dangerous manner, such work shall be immediately stopped. The stop work order shall be in writing and shall be given to the owner of the property involved, or to the owner's agent or to the person doing the work; and shall state the conditions under which work will be permitted to resume."
- (4) In IRC, Section R202, the following definition is added: "CERTIFIED BACKFLOW PREVENTER ASSEMBLY TESTER: A person who has shown competence to test Backflow prevention assemblies to the satisfaction of the authority having jurisdiction under Utah Code, Subsection 19-4-104(4)."
- (5) In IRC, Section R202, the definition for "CONDITIONED SPACE" is modified by deleting the words at the end of the sentence "being heated or cooled by any equipment or appliance" and replacing them with the following: "enclosed within the building thermal envelope that is directly heated or cooled, or indirectly heated or cooled by any of the following means:

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- 212 1. Openings directly into an adjacent conditioned space.
- 213 2. An un-insulated floor, ceiling or wall adjacent to a conditioned space.
 - 3. Un-insulated duct, piping or other heat or cooling source within the space."
 - (6) In IRC, Section R202, the definition of "Cross Connection" is deleted and replaced with the following: "CROSS CONNECTION. Any physical connection or potential connection or arrangement between two otherwise separate piping systems, one of which contains potable water and the other either water of unknown or questionable safety or steam, gas, or chemical, whereby there exists the possibility for flow from one system to the other, with the direction of flow depending on the pressure differential between the two systems (see "Backflow, Water Distribution")."
 - (7) In IRC, Section 202, in the definition for gray water a comma is inserted after the word "washers"; the word "and" is deleted; and the following is added to the end: "and clear water wastes which have a pH of 6.0 to 9.0; are non-flammable; non-combustible; without objectionable odors; non-highly pigmented; and will not interfere with the operation of the sewer treatment facility."
 - (8) In IRC, Section R202, the definition of "Potable Water" is deleted and replaced with the following: "POTABLE WATER. Water free from impurities present in amounts sufficient to cause disease or harmful physiological effects and conforming to the Utah Code, Title 19, Chapter 4, Safe Drinking Water Act, and Title 19, Chapter 5, Water Quality Act, and the regulations of the public health authority having jurisdiction."
 - (9) IRC, Figure R301.2(5), is deleted and replaced with Table R301.2(5a) and Table R301.2(5b) as follows:

234	"TABLE NO. R301.2(5a)					
235	STATE OF UTAH - REGIONAL SNOW LOAD FACTORS					
236		COUNTY	Po	S	Ao	
237		Beaver	43	63	6.2	
238		Box Elder	43	63	5.2	
239		Cache	50	63	4.5	
240		Carbon	43	63	5.2	
241		Daggett	43	63	6.5	

242	Davis	43	63	4.5
243	Duchesne	43	63	6.5
244	Emery	43	63	6.0
245	Garfield	43	63	6.0
246	Grand	36	63	6.5
247	Iron	43	63	5.8
248	Juab	43	63	5.2
249	Kane	36	63	5.7
250	Millard	43	63	5.3
251	Morgan	57	63	4.5
252	Piute	43	63	6.2
253	Rich	57	63	4.1
254	Salt Lake	43	63	4.5
255	San Juan	43	63	6.5
256	Sanpete	43	63	5.2
257	Sevier	43	63	6.0
258	Summit	86	63	5.0
259	Tooele	43	63	4.5
260	Uintah	43	63	7.0
261	Utah	43	63	4.5
262	Wasatch	86	63	5.0
263	Washington	29	63	6.0
264	Wayne	36	63	6.5
265	Weber	43	63	4.5

266	TABLE NO. R301.2(5b)
267	REQUIRED SNOW LOADS FOR SELECTED UTAH CITIES AND TOWNS1,2
268	The following jurisdictions require design snow load values that differ from the Equation in
	the Utah Snow Load Study.

1st Sub. (Green) S.B. 231

County City		Elevation	Ground Snow	Roof Snow		
			Load (psf)	Load (psf) 6		
Carbon	Price3	5550	43	30		
	All other county locations5					
Davis	Fruit Heights3	4500 - 4850	57	40		
Emery	Green River3	4070	36	25		
Garfield	Panguitch3	6600	43	30		
74 Rich Woodruff3		6315	57	40		
	Laketown4	6000	57	40		
	Garden City5					
	Randolph4	6300	57	40		
San Juan	Monticello3	6820	50	35		
Summit	Coalville3	5600	86	60		
	Kamas4	6500	114	80		
Tooele	Tooele3	5100	43	30		
Utah	Orem3	4650	43	30		
	Pleasant Grove4	5000	43	30		
	Provo5		1			
Wasatch	Heber5	-1	1			
Washington	Leeds3	3460	29	20		
	Santa Clara3	2850	21	15		
	St. George3	2750	21	15		
	All other county locations5					
Wayne	Loa3	7080	43	30		
1The IRC requires a minimum live load See R301.6.						
2This table is informational only in that actual site elevations may vary. Table is only valid						
if site elevation is within 100 feet of the listed elevation. Otherwise, contact the local						
Building Official.						
3Values adopted from Table VII of the Utah Snow Load Study						
	Carbon Davis Emery Garfield Rich San Juan Summit Tooele Utah Wasatch Washington Wayne 1The IRC req 2This table is if site elevation Building Offi	Carbon Price3 All other county locations5 Davis Fruit Heights3 Emery Green River3 Garfield Panguitch3 Rich Woodruff3 Laketown4 Garden City5 Randolph4 San Juan Monticello3 Summit Coalville3 Kamas4 Tooele Tooele3 Utah Orem3 Pleasant Grove4 Provo5 Wasatch Heber5 Washington Leeds3 Santa Clara3 St. George3 All other county locations5 Wayne Loa3 1The IRC requires a minimum live load See 2 2 This table is informational only in that activity site of the lister Building Official.	Carbon Price3	Carbon Price3 5550 43 All other county locations5 Davis Fruit Heights3 4500 - 4850 57 Emery Green River3 4070 36 Garfield Panguitch3 6600 43 Rich Woodruff3 6315 57 Laketown4 6000 57 Garden City5 Randolph4 6300 57 San Juan Monticello3 6820 50 Summit Coalville3 5600 86 Kamas4 6500 114 Tooele Tooele3 5100 43 Utah Orem3 4650 43 Pleasant Grove4 5000 43 Provo5 Washington Leeds3 3460 29 Santa Clara3 2850 21 St. George3 2750 21 All other county locations5		

285 4Values based on site-specific study. Contact local Building Official for additional information. 286 5Contact local Building Official. 287 6Based on Ce = 1.0, Ct = 1.0 and Is = 1.0" 288 (10) IRC, Section R301.6, is deleted and replaced with the following: "R301.6 Utah 289 Snow Loads. The snow loads specified in Table R301.2(5b) shall be used for the jurisdictions identified in that table. Otherwise, the ground snow load, Pg, to be used in the determination 290 291 of design snow loads for buildings and other structures shall be determined by using the 292 following formula: Pg = (Po2 + S2(A-Ao)2)0.5 for A greater than Ao, and Pg = Po for A less 293 than or equal to Ao. 294 WHERE: 295 Pg = Ground snow load at a given elevation (psf); 296 Po = Base ground snow load (psf) from Table No. R301.2(5a); 297 S = Change in ground snow load with elevation (psf/100 ft.) From Table No. R301.2(5a); 298 A = Elevation above sea level at the site (ft./1,000); 299 Ao = Base ground snow elevation from Table R301.2(5a) (ft./1,000). 300 The building official may round the roof snow load to the nearest 5 psf. The ground snow 301 load, Pg, may be adjusted by the building official when a licensed engineer or architect submits 302 data substantiating the adjustments. 303 Where the minimum roof live load in accordance with Table R301.6 is greater than the design 304 roof snow load, such roof live load shall be used for design, however, it shall not be reduced to 305 a load lower than the design roof snow load. Drifting need not be considered for roof snow 306 loads less than 20 psf." 307 (11) In IRC, Section R302.5.1, the words "self-closing device" are deleted and replaced 308 with "self-latching hardware". 309 (12) IRC, Section R302.13, is deleted. 310 (13) In IRC, Section R303.4, the number "5" is changed to "3" in the first sentence. (14) IRC, Sections R311.7.4 through R311.7.5.3, are deleted and replaced with the 311 312 following: "R311.7.4 Stair treads and risers. R311.7.5.1 Riser height. The maximum riser 313 height shall be 8 inches (203 mm). The riser shall be measured vertically between leading edges of the adjacent treads. The greatest riser height within any flight of stairs shall not 314

- exceed the smallest by more than 3/8 inch (9.5 mm).
- R311.7.5.2 Tread depth. The minimum tread depth shall be 9 inches (228 mm). The tread
- depth shall be measured horizontally between the vertical planes of the foremost projection of
- adjacent treads and at a right angle to the tread's leading edge. The greatest tread depth within
- any flight of stairs shall not exceed the smallest by more than 3/8 inch (9.5 mm). Winder
- treads shall have a minimum tread depth of 10 inches (254 mm) measured as above at a point
- 321 12 inches (305 mm) from the side where the treads are narrower. Winder treads shall have a
- minimum tread depth of 6 inches (152 mm) at any point. Within any flight of stairs, the
- 323 greatest winder tread depth at the 12-inch (305 mm) walk line shall not exceed the smallest by
- 324 more than 3/8 inch (9.5 mm).
- R311.7.5.3 Profile. The radius of curvature at the leading edge of the tread shall be no greater
- 326 than 9/16 inch (14.3 mm). A nosing not less than 3/4 inch (19 mm) but not more than 1 1/4
- inches (32 mm) shall be provided on stairways with solid risers. The greatest nosing projection
- shall not exceed the smallest nosing projection by more than 3/8 inch (9.5 mm) between two
- stories, including the nosing at the level of floors and landings. Beveling of nosing shall not
- exceed 1/2 inch (12.7 mm). Risers shall be vertical or sloped from the underside of the leading
- edge of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. Open
- risers are permitted, provided that the opening between treads does not permit the passage of a
- 4-inch diameter (102 mm) sphere.
- 334 Exceptions.
- 1. A nosing is not required where the tread depth is a minimum of 10 inches (254 mm).
- 2. The opening between adjacent treads is not limited on stairs with a total rise of 30 inches
- 337 (762 mm) or less."
- 338 (15) IRC, Section R312.2, is deleted.
- 339 (16) IRC, Sections R313.1 through R313.2.1, are deleted and replaced with the
- following: "R313.1 Design and installation. When installed, automatic residential fire
- 341 sprinkler systems for townhouses or one- and two-family dwellings shall be designed and
- installed in accordance with Section P2904 or NFPA 13D."
- 343 (17) In IRC, Section 315.3, the following words are added to the first sentence after the
- word "installed": "on each level of the dwelling unit and".
- 345 (18) In IRC, Section R315.5, a new exception, 3, is added as follows:

- 346 "3. Hard wiring of carbon monoxide alarms in existing areas shall not be required where the 347 alterations or repairs do not result in the removal of interior wall or ceiling finishes exposing 348 the structure, unless there is an attic, crawl space or basement available which could provide 349 access for hard wiring, without the removal of interior finishes."
 - (19) A new IRC, Section R315.7, is added as follows: "R315.7 Interconnection. Where more than one carbon monoxide alarm is required to be installed within an individual dwelling unit in accordance with Section R315.1, the alarm devices shall be interconnected in such a manner that the actuation of one alarm will activate all of the alarms in the individual unit. Physical interconnection of smoke alarms shall not be required where listed wireless alarms are installed and all alarms sound upon activation of one alarm.
 - Exception: Interconnection of carbon monoxide alarms in existing areas shall not be required where alterations or repairs do not result in removal of interior wall or ceiling finishes exposing the structure, unless there is an attic, crawl space or basement available which could provide access for interconnection without the removal of interior finishes."
 - (20) In IRC, Section R403.1.6, a new Exception 3 is added as follows: "3. When anchor bolt spacing does not exceed 32 inches (813 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls, interior braced wall lines, and at all exterior walls."
 - (21) In IRC, Section R403.1.6.1, a new exception is added at the end of Item 2 and Item 3 as follows: "Exception: When anchor bolt spacing does not exceed 32 inches (816 mm) apart, anchor bolts may be placed with a minimum of two bolts per plate section located not less than 4 inches (102 mm) from each end of each plate section at interior bearing walls, interior braced wall lines, and at all exterior walls."
 - (22) In IRC, Section R404.1, a new exception is added as follows: "Exception: As an alternative to complying with Sections R404.1 through R404.1.5.3, concrete and masonry foundation walls may be designed in accordance with IBC Sections 1807.1.5 and 1807.1.6 as amended in Section 1807.1.6.4 and Table 1807.1.6.4 under these rules."
 - (23) In IRC, Section R405.1, a new exception is added as follows: "Exception: When a geotechnical report has been provided for the property, a drainage system is not required unless the drainage system is required as a condition of the geotechnical report. The geological report

377 <u>shall make a recommendation regarding a drainage system.</u>"