

**RICHLAND COUNTY  
DEVELOPMENT AND SERVICES  
COMMITTEE**

**AGENDA**



**TUESDAY OCTOBER 25, 2022**

**5:00 PM**

**COUNCIL CHAMBERS**

# Richland County Council 2021-2022



Deirek Pugh  
District 2



Bill Malinowski  
District 1



Overture Walker  
District 8  
Chair



Gretchen Barron  
District 7



Yvonne McBride  
District 3



Chakisse Newton  
District 11



Allison Terracio  
District 5



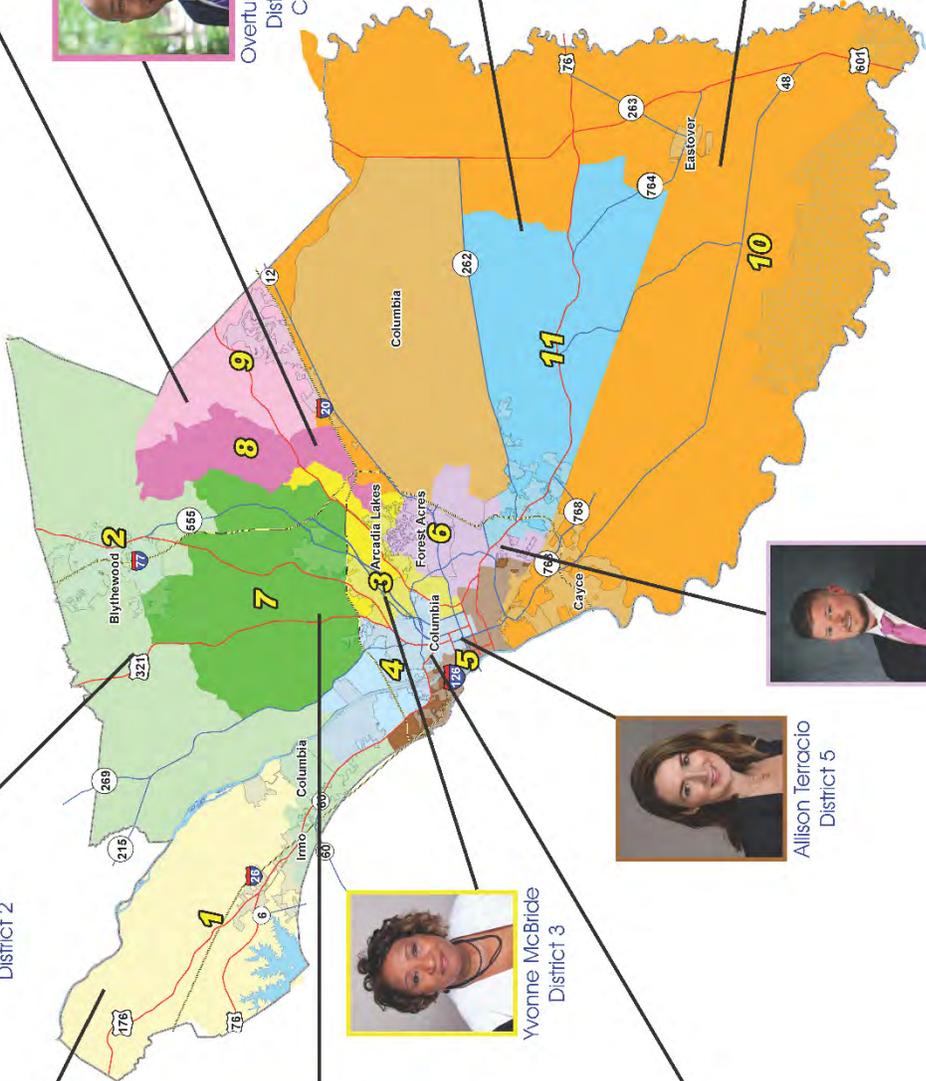
Paul Livingston  
District 4



Cheryl English  
District 10



Joe Walker, III  
District 6





**Richland County  
Development and Services Committee**

**AGENDA**

October 25, 2022 - 5:00 PM  
2020 Hampton Street, Columbia, SC 29204

The Honorable Derrek Pugh, Chair	The Honorable Allison Terracio	The Honorable Gretchen Barron	The Honorable Cheryl English	The Honorable Chakisse Newton
County Council District 2	County Council District 5	County Council District 7	County Council District 10	County Council District 11

1. **CALL TO ORDER** The Honorable Derrek Pugh
  
2. **APPROVAL OF MINUTES** The Honorable Derrek Pugh
  - a. September 27, 2022 [PAGES 6-9]
  
3. **ADOPTION OF AGENDA** The Honorable Derrek Pugh
  
4. **ITEMS FOR ACTION** The Honorable Derrek Pugh
  - a. Community Planning & Development - Building Inspections - South Carolina Building Codes Council Mandated 2021 Code Cycle [PAGES 10-140]
  - b. Department of Public Works – Engineering Division - Comprehensive Transportation Improvement Plan (CTIP) budget and proposed projects for Fiscal Year 2023 (FY-23) [PAGES 141-161]
  
5. **ITEMS FOR DISCUSSION**
  - a. I move to direct the County Administrator to work with the County Attorney to research and draft an absentee landlord ordinance. The ordinance should provide potential remedies for individuals who violate county ordinances and provide, via supplemental documentation, a comprehensive review of the legal impacts [potentially] associated with the adoption of such an ordinance. [NEWTON and DICKERSON] [PAGES 162-171]
  
6. **ITEMS PENDING ANALYSIS: NO ACTION REQUIRED** The Honorable Derrek Pugh

- a. Move to direct the County Administrator to evaluate current zoning laws that permit zoning designations for large residential developments to remain in perpetuity and present options to re-evaluate and or rezone those properties if they are not developed within 7 years. Recommendations should include processes to ensure that zoning and the comprehensive plan remain consistent with the lived character of the community  
[Newton - July 13, 2021]  
\*\*Pending recommendations from the Planning Commission.
- b. I move to direct the Administrator to conduct a review of the rank weeds and vegetation ordinance and recommend any updates that would improve the effectiveness of the ordinance particularly as it relates to safety, enforcement, and blight reduction. [Newton - August 30, 2022]
- c. Based on the below information no further action should be taken by the Planning Commission or Council related to the new Land Development Code (LDC) until the urban heat island map is completed. The expanding residential, commercial and transportation infrastructure contribute to areas where temperatures are much warmer, and that could put people at risk of injury or death on hot days.

“This study will help demonstrate to local governments and others where we need to preserve undeveloped land and trees, plant additional trees or build other green infrastructure to reduce or prevent heat islands in Richland County,” (Quinton) Epps said. (Division Manager, Community Planning and Development Department)

The heat-mapping initiative aims to improve understanding of and guide action to reduce heat health risks, encourage economic development and boost the area’s quality of life overall, therefore, prior to council deciding what zoning needs to be placed in specific areas without having that information would be a dereliction of our duties to the residents of the county. [Malinowski -August 30, 2022]

**7. ADJOURNMENT**

The Honorable Derrek Pugh



Special Accommodations and Interpreter Services Citizens may be present during any of the County's meetings. If requested, the agenda and backup materials will be made available in alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), as amended and the federal rules and regulations adopted in implementation thereof. Any person who requires a disability-related modification or accommodation, including auxiliary aids or services, in order to participate in the public meeting may request such modification, accommodation, aid or service by contacting the Clerk of Council's office either in person at 2020 Hampton Street, Columbia, SC, by telephone at (803) 576-2061, or TDD at 803-576-2045 no later than 24 hours prior to the scheduled meeting.



Richland County Council  
Development and Services Committee Meeting  
**MINUTES**  
September 27, 2022 – 5:00 PM  
Council Chambers  
2020 Hampton Street, Columbia, SC 29204

COUNCIL MEMBERS PRESENT: Derrek Pugh, Chair; Allison Terracio, Gretchen Barron, Cheryl English and Chakisse Newton.

1. **CALL TO ORDER** – Chairman Derrek Pugh called the meeting to order at approximately 5:00PM.

2. **APPROVAL OF MINUTES**

a. July 24, 2022 – Ms. Terracio moved to approve the minutes as distributed, second by Ms. Barron.

In Favor: Pugh, Terracio, Barron, English and Newton.

The vote in favor was unanimous.

3. **ADOPTION OF AGENDA** – Ms. Terracio moved to adopt the agenda as published, second by Ms. Barron.

In Favor: Pugh, Terracio, Barron, English, and Newton

The vote in favor was unanimous.

4. **ITEMS FOR ACTION**

a. Community Planning & Development – Conservation – Historic Columbia Heritage Tourism Marketing Plan – Ms. Barron moved to approve this item, seconded by Ms. Terracio.

In Favor: Pugh, Terracio, Barron, English and Newton.

The vote in favor was unanimous.

5. **ITEMS FOR DISCUSSION**

a. I move to direct the County Administrator to work with the County Attorney to research and draft an absentee landlord ordinance. The ordinance should provide potential remedies for individuals who violate county ordinances and provide, via supplemental documentation, a comprehensive review of the legal impacts [potentially] associated with the adoption of such an ordinance. [NEWTON and DICKERSON] – Mr. Pugh inquired as to what is needed to move this item to Council.

Mr. Aric Jensen, Assistant County Administrator, responded that the committee has a proposal from staff for an administrative process to register the owners of property occupied by individuals other than themselves, which we colloquially call absentee landlords. The

system would be free of charge for the individuals unless they have more than a certain number of units, which would require them to obtain a business license. They anticipate this information will allow us to more quickly address issues because we will have a database of contacts and ownership in the event a situation arises. Accompanying that is an ordinance drafted by the County Attorney's office clarifies a couple different points. In particular, it codifies the concept that any party who is part of whatever the issue is can also be part of the remedy. A property owner, a property management company and the tenant may all be involved in whatever is occurring on the property that is creating the nuisance. The recommendation is to direct the Administrator to move forward with the procedures of creating a database and registration system for absentee landlords and to also recommend the draft ordinance language to the Council. Staff has internally discussed civil penalties versus criminal penalties that have taken place in other communities that have been very profitable and successful. It will take time to put that type of program together. In the future, staff will recommend Council and staff look at another potential way to address the issues.

Ms. Barron inquired if the database will include all landlords in general or just the absentee landlords. She stated it would be helpful to capture all of the landlords.

Mr. Jensen responded it is specifically for situations where the owner does not reside on the property.

Ms. Barron inquired if this database will be public information.

Mr. Jensen responded he would have to speak with the County Attorney's office to determine to what degree this will be public information. He believes it would be public information in the sense that if they made a request to know who the manager of the property is it could be provided.

Mr. Pugh stated he thought the database would be used by the County to identify someone who is being a nuisance. He did not know if we want to create a public database. This could lead to neighbors harassing the landowners.

Mr. Wright responded they would have to check. Anything created could potentially be considered public information. The owner would definitely be public, and all their information could potentially be public.

Ms. Newton inquired if we have a certain amount of property/ownership records already accessible through GIS or would there be a way this could be considered different.

Mr. Wright responded all properties can be looked up and find out who owns them. This situation is to make sure all the information is current to make the process simpler.

Ms. Newton inquired about the rationale behind the following language: *"If the owner shall not reside within fifty (50) miles of the registered address, then all of the above information is also required of an authorized agent residing with[in] the fifty (50) mile radius"*.

Mr. Wright responded the point is for there to be someone local to deal with situations that come up because it could be difficult to contact an owner if they lived in another state. The owner would be required to have an authorized agent within a 50-mile radius that could be contacted in that instance.

Ms. Newton inquired if that is an undue burden.

Mr. Wright responded it is a common practice.

Ms. Newton inquired if there is an order of operations for who would be held responsible for an item or if it is all individuals equally at all times.

Mr. Wright responded it would depend on the violation and/or issue. A zoning issue or

building regulation would not involve the tenant, but the owners. The height of the grass depends on what the lease states.

Mr. Malinowski noted the ordinance states in Section 16.73 – Enforcement and Penalties, “It shall be the responsibility of the owner, property manager, property management company, and tenant, each individually and collectively to all county ordinances related to maintenance...”, which would address Ms. Newton’s questions.

Mr. Pugh stated the County should focus on the landlord, and he did not want to get into the weeds regarding rental agreements.

Mr. Wright stated, as it is now, the owner of the property is responsible, but if they live out-of-state it could be difficult to serve them, so it would be hard to enforce anything if we cannot serve the tenant you may never serve the out-of-state owner.

Ms. Newton inquired if we are allowed to fine an owner when the County incurs costs to remedy a problem when they are the responsibility of another party.

Mr. Wright responded there are potential remedies such as placing a lien, which takes effect when the property is sold. The problem is how to get the owner to pay. You can ticket them, but unless there is a criminal penalty it would just be a lien.

Ms. Newton stated, for clarification, the only way the County could recoup the costs would be a lien on the property when sold, a fine, or a criminal penalty.

Mr. Wright responded in the affirmative.

Ms. Newton inquired if we could send a bill.

Mr. Wright responded you could, but that does not mean you would get anything.

Mr. Jensen stated there was a bill before the Legislature that died in committee, which would have given the County the ability to place the liens on the tax roll. They are working on bringing the bill back before the next session. He noted cities have this ability, but counties do not.

Mr. Wright stated it would require a change in State law.

Ms. Barron requested when the bill comes back please let Council know so they can help support the bill.

Mr. Malinowski requested a response to his questions by the next committee meeting. He noted he does not know where the 50 miles came from as Richland County is larger than that. He suggested including the following language: “or live within the County”. It was noted any person or entity owning 2 or more non-occupied residential units are required to obtain a business license. Relative to this section is an apartment complex considered one unit or is each apartment a separate unit? In addition, if the owner lives in the complex are they absolved from this section? What is the cost associated with creating the database? How will the program be profitable? Is the database only for absentee landlords or all landlords? He suggested all landlords be required to obtain a business license. He noted there could be new loopholes with the new law; therefore, we should be cautious. It is his opinion the landlord should be responsible for the upkeep of the yard and not the tenant.

Ms. Newton inquired if there is a plan on how to communicate with landlords about the process.

6. **ITEMS PENDING ANALYSIS: NO ACTION IS REQUIRED**

- a. Move to direct the County Administrator to evaluate current zoning laws that permit zoning

designations for large residential developments to remain in perpetuity and present options to re-evaluate and or rezone those properties if they are not developed within 7 years. Recommendations should include processes to ensure that zoning and the comprehensive plan remain consistent with the lived character of the community [Newton - July 13, 2021 – Pending recommendation from the Planning Commission.

- b. I move to direct the Administrator to conduct a review of the rank weeds and vegetation ordinance and recommend any updates that would improve the effectiveness of the ordinance particularly as it relates to safety, enforcement, and blight reduction. [Newton - August 30, 2022] – The appropriate department(s) will be prepared to discuss this matter at the October 25, 2022 committee meeting. Ms. Newton requested that Chief Polis, Ms. McBride, and herself be included in any meeting(s) regarding this matter.
- c. Based on the below information no further action should be taken by the Planning Commission or Council related to the new Land Development Code (LDC) until the urban heat island map is completed. The expanding residential, commercial, and transportation infrastructure contributes to areas where temperatures are much warmer, and that could put people at risk of injury or death on hot days.

“This study will help demonstrate to local governments and others where we need to preserve undeveloped land and trees, plant additional trees or build other green infrastructure to reduce or prevent heat islands in Richland County,” (Quinton) Epps said. (Division Manager, Community Planning and Development Department)

The heat-mapping initiative aims to improve understanding of and guide action to reduce heat-health risks, encourage economic development and boost the area’s quality of life overall, therefore, before council decides what zoning needs to be placed in specific areas without having that information would be a dereliction of our duties to the residents of the county. [Malinowski - August 30, 2022] – Mr. Wright stated Council cannot direct the Planning Commission not to consider something before them. They are required by statute to consider certain things that are already before them.

Mr. Malinowski inquired if the motion could be reworded to change “direct” to “present”.

Mr. Wright responded in the affirmative. He suggested changing the motion as follows: “to be brought to the Planning Commission for consideration of the heat mapping items”.

Ms. Barron moved to amend the motion as recommended by the County Attorney, seconded by Ms. English.

In Favor: Pugh, Terracio, Barron, English, and Newton.

The vote in favor was unanimous.

7. **ADJOURNMENT** – Ms. Newton moved to adjourn, seconded by Ms. English.

In Favor: Pugh, Terracio, Barron, English, and Newton

The motion in favor was unanimous

The meeting adjourned at approximately 5:39 PM.

**RICHLAND COUNTY  
ADMINISTRATION**

2020 Hampton Street, Suite 4069  
Columbia, SC 29204  
803-576-2050



**Agenda Briefing**

<b>Prepared by:</b>	Mike Zaprzalka	<b>Title:</b>	Building Official
<b>Department:</b>	Community Planning & Development	<b>Division:</b>	Building Inspections
<b>Date Prepared:</b>	August 1, 2022	<b>Meeting Date:</b>	October 25, 2022
<b>Legal Review</b>	Patrick Wright via email	<b>Date:</b>	September 27, 2022
<b>Budget Review</b>	Abhijit Deshpande via email	<b>Date:</b>	September 29, 2022
<b>Finance Review</b>	Stacey Hamm via email	<b>Date:</b>	September 28, 2022
<b>Approved for consideration:</b>	Assistant County Administrator	Aric A Jensen, AICP	
<b>Meeting/Committee</b>	Development & Services		
<b>Subject</b>	South Carolina Building Codes Council Mandated 2021 Code Cycle		

**RECOMMENDED/REQUESTED ACTION:**

Staff recommends that County Council adopt the 2021 Building Codes, appendices, and modifications mandated by South Carolina Building Codes Council as the standard for all residential and commercial construction.

Staff recommends that County Council adopt the 2021 International Property Maintenance Code. This is a permissive code, and not mandated. This is the reference and operational code of our County Ordinance Chapter 6, Article X, Property Maintenance, Section 6-182.

Request for Council Reconsideration:  Yes

**FIDUCIARY:**

Are funds allocated in the department’s current fiscal year budget?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If not, is a budget amendment necessary?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

**ADDITIONAL FISCAL/BUDGETARY MATTERS TO CONSIDER:**

Not applicable

*Applicable department/grant key and object codes:*

**OFFICE OF PROCUREMENT & CONTRACTING FEEDBACK:**

Not applicable

**COUNTY ATTORNEY’S OFFICE FEEDBACK/POSSIBLE AREA(S) OF LEGAL EXPOSURE:**

There are no legal concerns regarding this matter.

**REGULATORY COMPLIANCE:**

S.C. Code Ann. §6-9-50 (1976, as amended)

**MOTION OF ORIGIN:**

There is no associated Council motion of origin

Council Member	
Meeting	
Date	

**STRATEGIC & GENERATIVE DISCUSSION:**

On October 6, 2021, the South Carolina Building Codes Council approved and adopted codes and appendices, modifications and the latest editions of the mandatory codes referenced in S.C. Code Ann. §6-9-50 (1976, as amended) to be enforced by all municipalities and counties in South Carolina. The latest edition of ICC/ANSI A117.1, Accessible and Useable Buildings and Facilities, is adopted by the Accessibility Act, S.C. Code Ann. § 10-5-210 et seq. The Council established the implementation date for local jurisdictions as January 1, 2023.

The adopted modifications and the mandatory codes per South Carolina Codes Council are as follows:

- 2021 South Carolina Building Code or the 2021 International Building Code with SC modifications
- 2021 South Carolina Residential Code or the 2021 International Residential Code with SC modifications
- 2021 South Carolina Fire Code or the 2021 International Fire Code with SC modifications
- 2021 South Carolina Plumbing Code or the 2021 International Plumbing Code
- 2021 South Carolina Mechanical Code or the 2021 International Mechanical Code with SC modifications
- 2021 South Carolina Fuel Gas Code or the 2021 International Fuel Gas Code with SC modifications
- 2009 South Carolina Energy Conservation Code
- 2017 National Electrical Code (NFPA 70) with SC modifications
- 2017 ICC/ANSI A117.1 (Accessible and Useable Buildings and Facilities)

Appendices listed per South Carolina Codes Council are listed below:

- 2021 South Carolina Residential Code, appendix H (Patio Covers)
- 2021 South Carolina Residential Code, appendix J (Existing Building and Structures)
- 2021 South Carolina Residential Code, appendix Q (Tiny Homes)
- 2021 South Carolina Building Code, appendix H (Signs)

Permissive Code Adoption for County Ordinance / Article X / Sec.6-182/ Property Maintenance

- 2021 International Property Maintenance Code

**ADDITIONAL COMMENTS FOR CONSIDERATION:**

This mandated code change is being communicated to all builders by: bulletin postings, SC LLR website, Richland County Website, Permitting Specialist and Inspectors word of mouth.

All permits issued prior to 1 January 2023 will continue to work under the code cycle they were issued in. All permits issued on or after the implementation date will be required to operate under the new code cycle for code compliance.

**ATTACHMENTS:**

1. 2021 South Carolina Code Adoptions Bulletin
2. 2021 Modification and Appendices Index



## 2021 South Carolina Code Adoptions

On October 6, 2021, the South Carolina Building Codes Council adopted the latest editions of the mandatory codes and appendices with modifications, as referenced in S.C. Code Ann. §6-9-50 (1976, as amended), to be enforced by all municipalities and counties in South Carolina. The Council established the implementation date for local jurisdictions as **January 1, 2023**.

The adopted modifications and the mandatory codes are as follows:

2021 South Carolina Building Code or the 2021 International Building Code with SC modifications  
2021 South Carolina Residential Code or the 2021 International Residential Code with SC modifications  
2021 South Carolina Fire Code or the 2021 International Fire Code with SC modifications  
2021 South Carolina Plumbing Code or the 2021 International Plumbing Code with SC modifications  
2021 South Carolina Mechanical Code or the 2021 International Mechanical Code with SC modifications  
2021 South Carolina Fuel Gas Code or the 2021 International Fuel Gas Code with SC modifications  
2009 South Carolina Energy Conservation Code  
2020 National Electrical Code (NFPA 70) with SC modifications

Print and PDF download versions of the 2021 South Carolina codes are available for pre-order from the [ICC website](#).

The International Codes are to be used in conjunction with the latest [code modifications](#) approved by the Council. Only the modifications approved and listed on the Council's website are valid for use in the State. Building code modifications that have not been approved by the Council are invalid and cannot be adopted, employed or enforced by municipalities and counties.

The latest edition of ICC/ANSI A117.1, Accessible and Useable Buildings and Facilities, is adopted by the [Accessibility Act](#), S.C. Code Ann. § 10-5-210 et seq., and is mandatory for use in all municipalities and counties within the State.

The Building [Energy Standard Act](#) is adopted by statute and mandatory for use in all jurisdictions within the state.

Additional information can be found on the South Carolina Building Codes Council's [website](#).



South Carolina Department of Labor, Licensing and Regulation  
**South Carolina Building Codes Council**  
 110 Centerview Dr • Columbia • SC • 29210  
 P.O. Box 11329 • Columbia • SC • 29211-1329  
 Phone: 803-896-4688 • contact.bcc@llr.sc.gov • Fax: 803-896-4814  
 llr.sc.gov/bcc

## 2021 MODIFICATION INDEX

\*Modification Index numbers below are hyperlinked to the referenced modifications. The LLR logo on each modification page links back to index.

MODIFICATION INDEX NUMBER	CODE SECTION	REQUESTING ASSOCIATION/ JURISDICTION	NEW/ CONTINUATION
<b>2021 IBC</b>			
<a href="#">IBC 2021-01</a>	[A] 101.4.7 Existing Buildings	American Concrete Institute (ACI)	New
<a href="#">IBC 2021-02</a>	202 Definitions	BOASC	Continuation
<a href="#">IBC 2021-04</a>	303.4 Assembly Group A-3	BOASC	Continuation
<a href="#">IBC 2021-05</a>	312.1 General "Primitive Camp Structure"	BOASC	Continuation
<a href="#">IBC 2021-07</a>	706.1 General	BOASC	Continuation
<a href="#">IBC 2021-10</a>	1010.2.14 Controlled egress doors in Groups I-1 and I-2 (also in IFC)	Midlands Fire Marshal's Association	New
<a href="#">IBC 2021-11</a>	1016.2 Egress through intervening spaces	BOASC	Continuation
<a href="#">IBC 2021-14</a>	1803.2 Investigations required	BOASC	Continuation
<a href="#">IBC 2021-16</a>	1907.1 General	Structural Engineers	Continuation
<a href="#">IBC 2021-17</a>	2303.2.2 Other means during manufacture	BOASC	Continuation
<a href="#">IBC 2021-18</a>	Appendix H Signs	Structural Engineers	Continuation
<b>2021 IRC</b>			
<a href="#">IRC 2021-01</a>	R202 Definitions - Accepted Eng. Practice	Coastal Code Enforcement Association of SC	Continuation
<a href="#">IRC 2021-02</a>	R202 Definitions - Crawl Space	HBA of SC	New
<a href="#">IRC 2021-04</a>	R301.2.1 Wind Design Criteria	HBA of SC	New
<a href="#">IRC 2021-05</a>	R301.2.2.1 Determination of seismic design category	HBA of SC	New
<a href="#">IRC 2021-06</a>	R302.1 Exterior Walls (Add Exception 6)	Coastal Code Enforcement Association of SC	Continuation
<a href="#">IRC 2021-07</a>	R302.1 Exterior Walls (Add Exception 7)	BOASC	New
<a href="#">IRC 2021-09</a>	R302.4.1 Through penetrations	BOASC	New
<a href="#">IRC 2021-10</a>	R302.5.1 Opening protection	HBA of SC	Continuation
<a href="#">IRC 2021-11</a>	R302.13 Fire Protection of floors	HBA of SC	Continuation
<a href="#">IRC 2021-12</a>	R303.4 Mechanical ventilation	Coastal Code Enforcement Association of SC	Continuation
<a href="#">IRC 2021-13</a>	Figure R307.1 Minimum Fixture Clearances	HBA of SC	Continuation
<a href="#">IRC 2021-15</a>	R311.7.5.1 Risers	Structural Engineers Association of SC	Continuation
<a href="#">IRC 2021-16</a>	R312.1.1 Where required	HBA of SC	Continuation
<a href="#">IRC 2021-17</a>	R312.2 Window fall protection	HBA of SC	Continuation
<a href="#">IRC 2021-18</a>	R313 Automatic Fire Sprinkler Systems	HBA of SC	Continuation
<a href="#">IRC 2021-22</a>	R317.1.1 Field treatment	Structural Engineers Association of SC	Continuation
<a href="#">IRC 2021-23</a>	R318.1 Subterranean termite control methods	HBA of SC	Continuation
<a href="#">IRC 2021-24</a>	R318.4 Foam Plastic Protection	HBA of SC	Continuation
<a href="#">IRC 2021-25</a>	R318.5 Termite Inspection Strip	HBA of SC	New
<a href="#">IRC 2021-28</a>	R322.1 General	BOASC	Continuation
<a href="#">IRC 2021-29</a>	R326.3 Story above grade plane	HBA of SC	New
<a href="#">IRC 2021-31</a>	R404.1.9.2 Masonry Piers Supporting floor girders	HBA of SC & Structural Engineers Association of SC	Continuation

<b>MODIFICATION INDEX NUMBER</b>	<b>CODE SECTION</b>	<b>REQUESTING ASSOCIATION/ JURISDICTION</b>	<b>NEW/ CONTINUATION</b>
<b>IRC 2021-32</b>	R408.3 Unvented Crawl Space	Structural Engineers Association of SC	Continuation
<b>IRC 2021-33</b>	R408.3(2.2) Unvented crawl space	HBA of SC	New
<b>IRC 2021-34</b>	R408.4 Access	HBA of SC	Continuation
<b>IRC 2021-35</b>	R408.8 Under-floor vapor retarder	HBA of SC	New
<b>IRC 2021-36</b>	R502.11.4 Truss design drawings	HBA of SC	Continuation
<b>IRC 2021-37</b>	R506.2.3 Vapor retarder	Structural Engineers Association of SC	Continuation
<b>IRC 2021-38</b>	R606.7 Piers	Structural Engineers Association of SC	Continuation
<b>IRC 2021-39</b>	R802.10.1 Truss design drawings	HBA of SC	Continuation
<b>IRC 2021-40</b>	R905.2.8.5 Drip Edge	HBA of SC	Continuation
<b>IRC 2021-41</b>	Chapter 11 Energy Efficiency	HBA of SC	Continuation
<b>IRC 2021-42</b>	M1411.6 Insulation of refrigerant piping	HBA of SC	Continuation
<b>IRC 2021-43</b>	M1411.9 Locking access port caps	HBA of SC	Continuation
<b>IRC 2021-44</b>	M1502.3 Duct termination	HBA of SC	Continuation
<b>IRC 2021-45</b>	M1502.4.2 Duct Installation	HBA of SC	Continuation
<b>IRC 2021-46</b>	M1502.4.6 Duct length	HBA of SC	Continuation
<b>IRC 2021-47</b>	M1503.6 Makeup air	HBA of SC	Continuation
<b>IRC 2021-48</b>	M1504.3 Exhaust Openings	HBA of SC	Continuation
<b>IRC 2021-49</b>	M1601.4.1 Joints, Seams and Connections	HBA of SC	Continuation
<b>IRC 2021-50</b>	G2418.2 Design and installation	HBA of SC	Continuation
<b>IRC 2021-51</b>	P2503.6 Shower liner test	HBA of SC	Continuation
<b>IRC 2021-52</b>	P2503.6 Shower liner test	HBA of SC	New (Adds to continuation)
<b>IRC 2021-53</b>	P2603.2.1 Protection against physical damage	HBA of SC	New
<b>IRC 2021-54</b>	P2603.5 Freezing	HBA of SC	Continuation
<b>IRC 2021-55</b>	P2603.5 Freezing	HBA of SC	New (Adds to continuation)
<b>IRC 2021-56</b>	P2705.1 (3) General	HBA of SC	New
<b>IRC 2021-57</b>	P2708.4 Shower control valves	HBA of SC	New
<b>IRC 2021-58</b>	P2713.3 Bathtub and whirlpool bathtub valves	HBA of SC	New
<b>IRC 2021-60</b>	P2903.10 Hose bibb	HBA of SC	Continuation
<b>IRC 2021-62</b>	P2904.2.4.2.1 Additional requirements for pendant sprinklers	SC Master Plumbers Association	New
<b>IRC 2021-66</b>	E3606.5 Surge Protection	HBA of SC	New
<b>IRC 2021-67</b>	E3802.4 In unfinished basements	HBA of SC	Continuation
<b>IRC 2021-69</b>	E3901.4.2 (1) – Island and peninsular countertops and work spaces	HBA of SC	New
<b>IRC 2021-70</b>	E3902 Ground-Fault & Arc-Fault Circuit-Interrupter Protection	HBA of SC	New
<b>IRC 2021-71</b>	E3902.5 Basement Receptacles	HBA of SC	New
<b>IRC 2021-73</b>	E3902.17 Arc-Fault Circuit Interrupter Protection	HBA of SC	Continuation
<b>IRC 2021-75</b>	E4002.14 Tamper-resistant receptacles	HBA of SC	New
<b>IRC 2021-76</b>	Chapter 44 Referenced Standards	AHRI	New
<b>IRC 2021-77</b>	Appendix AH Patio Covers	Structural Engineers Association of SC	Continuation
<b>IRC 2021-78</b>	Appendix AJ Existing Buildings and Structures	Structural Engineers Association of SC	Continuation
<b>IRC 2021-79</b>	Appendix AQ Tiny Houses	BOASC	Continuation

<b>MODIFICATION INDEX NUMBER</b>	<b>CODE SECTION</b>	<b>REQUESTING ASSOCIATION/ JURISDICTION</b>	<b>NEW/ CONTINUATION</b>
<b>2021 IFC</b>			
<b>IFC 2021-02</b>	202 General definitions - Primitive camp structure	BOASC	Continuation
<b>IFC 2021-03</b>	202 General definitions - A-3 occupancies	BOASC	Continuation
<b>IFC 2021-04</b>	202 General definitions - Recreational Fire	SC Fire Marshal's Association	Continuation
<b>IFC 2021-05</b>	315.3.3 Equipment rooms	Midlands Fire Marshal's Association	New
<b>IFC 2021-07</b>	319.11 Clearance requirements (New Section)	Midlands Fire Marshal's Association	New
<b>IFC 2021-08</b>	503.1.2 Additional Access	HBA of SC	New
<b>IFC 2021-09</b>	503.1.2.1 One- or two-family dwelling residential developments having less than 50 units (New section)	HBA of SC	New
<b>IFC 2021-10</b>	503.2.1 Dimensions	HBA of SC	Continuation
<b>IFC 2021-11</b>	507.1 Required water supply	Charleston Fire Department	Continuation
<b>IFC 2021-12</b>	507.5.1 Where Required	Charleston Fire Department	Continuation
<b>IFC 2021-13</b>	507.5.1.1 Hydrant for standpipe systems	Midlands Fire Marshal's Association	New
<b>IFC 2021-14</b>	507.5.4 Obstruction	Midlands Fire Marshal's Association	New
<b>IFC 2021-16</b>	607.1 General	Midlands Fire Marshal's Association	New
<b>IFC 2021-19</b>	901.6.3 Records	Charleston Fire Department	Continuation
<b>IFC 2021-22</b>	907.6.5 Access	Midlands Fire Marshal's Association	New
<b>IFC 2021-24</b>	1010.2.14 Controlled egress doors in Groups I-1 and I-2 (Also in IBC)	Midlands Fire Marshal's Association	New
<b>IFC 2021-25</b>	1016.2 Egress through intervening spaces	Charleston Fire Department	Continuation
<b>IFC 2021-31</b>	2303.2.2 Testing (New section)	Midlands Fire Marshal's Association	New
<b>IFC 2021-33</b>	2305.5 Fire extinguishers	Midlands Fire Marshal's Association	New
<b>IFC 2021-34</b>	2307.4 Location of dispensing operations and equipment	SCPGA	Continuation
<b>IFC 2021-35</b>	2307.7 Public fueling of motor vehicles	SCPGA	Continuation
<b>IFC 2021-38</b>	6101.1 Scope	SC Fire Marshal's Association	Continuation
<b>IFC 2021-41</b>	6106.1 Attendants	SC Fire Marshal's Association	Continuation
<b>IFC 2021-42</b>	6107.4 Protecting containers from vehicles	SC Fire Marshal's Association	Continuation
<b>IFC 2021-43</b>	6109.13 Protection of containers	SC Fire Marshal's Association	Continuation
<b>IFC 2021-44</b>	6110.1 Removed from service	SC Fire Marshal's Association	Continuation
<b>IFC 2021-45</b>	6111.2.1 Near residential, educational and institutional occupancies and other high-risk areas	SC Fire Marshal's Association	Continuation
<b>2021 IPC</b>			
<b>IPC 2021-01</b>	202 General Definitions - Drinking Fountain	Carolinas AGC	New
<b>IPC 2021-02</b>	202 General Definitions - Bottle Filling Station	Carolinas AGC	New
<b>IPC 2021-03</b>	202 General Definitions - Water Cooler	Carolinas AGC	New
<b>IPC 2021-04</b>	202 General Definitions - Water Dispenser	Carolinas AGC	New
<b>IPC 2021-05</b>	Table 403.1 Minimum number of required plumbing fixtures	Carolinas AGC	New
<b>IPC 2021-06</b>	410.4 Substitution	Carolinas AGC	New
<b>2021 IMC</b>			
<b>IMC 2021-01</b>	504.9.2 Duct Installation	BOASC	Continuation
<b>IMC 2021-02</b>	Table 1103.1 Refrigerant Classification Amount and OEL	AHRI	New

<b>MODIFICATION INDEX NUMBER</b>	<b>CODE SECTION</b>	<b>REQUESTING ASSOCIATION/ JURISDICTION</b>	<b>NEW/ CONTINUATION</b>
<b>IMC 2021-03</b>	1104.3 System Application Requirements	AHRI	New
<b>IMC 2021-04</b>	Chapter 15 Referenced Standards	AHRI	New
<b>2021 IFGC</b>			
<b>IFGC 2021-01</b>	401.9 Identification	SCPGA	Continuation
<b>IFGC 2021-02</b>	401.10 Third-party testing and certification	SCPGA	Continuation
<b>IFGC 2021-03</b>	412.4 Listed equipment	SCPGA	Continuation
<b>IFGC 2021-04</b>	412.6 Location	SCPGA	Continuation
<b>IFGC 2021-05</b>	412.8.3 Vehicle impact protection	SCPGA	Continuation
<b>IFGC 2021-06</b>	412.10 Private fueling of motor vehicles	SCPGA	Continuation
<b>IFGC 2021-07</b>	505.1.1 Commercial cooking appliances vented by exhaust hoods	Piedmont Natural gas	Continuation
<b>2020 NEC</b>			
<b>NEC 2020-03</b>	210.8(A)(5) Basements	HBA of SC	New
<b>NEC 2020-04</b>	210.8(F) Outdoor Outlets	HBA of SC	New
<b>NEC 2020-05</b>	210.12 Arc-Fault Circuit-Interpreter Protection	HBA of SC	New
<b>NEC 2020-06</b>	230.67 Surge Protection	HBA of SC	New



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-01

Code Section: [A] 101.4.7 Existing Buildings

Modification:

[A] 101.4.7 Existing buildings. The provisions of the South Carolina Existing Building Code shall apply to matters governing the repair, alternation, change of occupancy, addition to and relocation of existing buildings.

101.4.7.1 Structural Concrete. In addition, assessment, repairs, and restoration of structural concrete in accordance with ACI 562 shall be permitted.

Exception:  
ACI 562 shall not be used for the evaluation or design of repairs or rehabilitation of elements of seismic force-resisting system that result in strength, stiffness, or ductility of those elements different from the pre-damage condition.

Add new referenced standard to Chapter 16 as follows:

ACI American Concrete Institute  
38800 Country Club Drive  
Farmington Hills, MI 48331  
Standard reference number Title Referenced in code section number  
562-19 Code Requirements for Assessment, Repair, and Rehabilitation of Existing Concrete Structures  
101.4.7.1

Proponent: American Concrete Institute (ACI)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
n/a		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-02

Code Section: 202 Definitions

Modification:

**VAPOR RETARDER, GROUND CONTACT.** Ground contact vapor retarder class shall be defined using the requirements of ASTM E1745, Class A, B, or C-Standard specification for water vapor retarders used in contact with soil or granular fill under concrete slabs.

**PRIMITIVE CAMP STRUCTURE.** Shall include any structure permanent or temporary in nature, used for outdoor camping (transient), open on at least one side with no fully enclosed habitable spaces, less than 400 square feet under roof, and not classified as a residential occupancy due to lack of electrical, plumbing, mechanical and sprinkler systems.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 01	202



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-04

Code Section: 303.4 Assembly Group A-3

Modification:

**303.4 Assembly Group A-3.** Group A-3 occupancy includes assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A including, but not limited to:

- Amusement arcades
- Art galleries
- Bowling alleys
- Community halls
- Courtrooms
- Dance halls (not including food or drink consumption)
- Exhibition halls
- Funeral parlors
- Greenhouses* for the conservation and exhibition of plants that provide public access
- Gymnasiums (without spectator seating)
- Indoor *swimming pools* (without spectator seating)
- Indoor tennis courts (without spectator seating)
- Lecture halls
- Libraries
- Museums
- Places of religious worship*
- Pool and billiard parlors
- Structures, without a commercial kitchen, used in agritourism activity as defined by S.C. Code Ann. 46-53-10(1)
- Waiting areas in transportation terminals

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 02	303.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-05

Code Section: 312.1 General.

Modification:

**SECTION 312**

**UTILITY AND MISCELLANEOUS GROUP U**

**312.1 General.** Buildings and structures of an accessory character and miscellaneous structures not classified in any specific occupancy shall be constructed, equipped and maintained to conform to the requirements of this code commensurate with the fire and life hazard incidental to their occupancy. Group U shall include, but not be limited to, the following:

*Agricultural buildings*

Aircraft hangars, accessory to a one- or two-family residence (see Section 412.4)

Barns

Carports

Communication equipment structures with a *gross floor area* of less than 1,500 square feet (139 m<sup>2</sup>)

Fences more than 7 feet (2134 mm) in height

Grain silos, accessory to a residential occupancy

Livestock shelters

**Primitive Camp Structures**

*Private garages*

Retaining walls

Sheds

Stables

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 03	312.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-07

Code Section: 706.1 General

Modification:

**706.1 General.** *Fire walls* shall be constructed in accordance with Sections 706.2 through 706.11. Each portion of a building separated by one or more firewalls may be considered a separate building. The extent and location of such *fire walls* shall provide a complete separation. Where a *fire wall* separates occupancies that are required to be separated by a *fire barrier* wall, the most restrictive requirements of each separation shall apply.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 05	706.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-10

Code Section: 1010.2.14 Controlled egress doors in Group I-1 and I-2

Modification:

**1010.2.14 Controlled egress doors in Groups I-1, I-2, and I-4 (Adult Day Care Occupancy only).**

Electric locking systems, including electro-mechanical locking systems and electromagnetic locking systems, shall be permitted to be locked in the means of egress in Group I-1, I-2, and I-4 (Adult Day Care occupancy only) occupancies where the clinical needs of persons receiving care require their containment. Controlled egress doors shall be permitted in such occupancies where the building is equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1 or an approved automatic smoke detection system installed in accordance with Section 907, provided that the doors are installed and operate in accordance with all of the following:

1. The door locks shall unlock on actuation of the automatic sprinkler system or automatic smoke detection system.
2. The door locks shall unlock on loss of power controlling the lock or lock mechanism.
3. The door locking system shall be installed to have the capability of being unlocked by a switch located at the fire command center, a nursing station or other approved location. The switch shall directly break power to the lock.
4. A building occupant shall not be required to pass through more than one door equipped with a controlled egress locking system before entering an exit.
5. The procedures for unlocking the doors shall be described and approved as part of the emergency planning and preparedness required by Chapter 4 of the International Fire Code.
6. All clinical staff shall have the keys, codes or other means necessary to operate the locking systems.
7. Emergency lighting shall be provided at the door.
8. The door locking system units shall be listed in accordance with UL 294.

**Exceptions:**

1. Items 1 through 4 shall not apply to doors to areas occupied by persons who, because of clinical needs, require restraint or containment as part of the function of a psychiatric or cognitive treatment area.
2. Items 1 through 4 shall not apply to doors to areas where a listed egress control system is utilized to reduce the risk of child abduction from nursery and obstetric areas of a Group I-2 hospital.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
n/a		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-11

Code Section: 1016.2 Egress through intervening spaces

**Modification:**

**1016.2 Egress through intervening spaces.** Egress through intervening spaces shall comply with this section.

1. Exit access through an enclosed elevator lobby is permitted. Where access to two or more exits or exit access doorways is required in Section 1006.2.1, access to not less than one of the required exits shall be provided without travel through the enclosed elevator lobbies required by Section 3006 of the South Carolina Building Code. Where the path of exit access travel passes through an enclosed elevator lobby, the level of protection required for the enclosed elevator lobby is not required to be extended to the exit unless direct access to an exit is required by other sections of this code.
2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.  
  
Exception: Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S or F occupancy where the adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.
3. An exit access shall not pass through a room that can be locked to prevent egress.
4. Means of egress from dwelling units or sleeping areas shall not lead through other sleeping areas, toilet rooms or bathrooms.  
  
Exception: Dwelling units or sleeping areas in R-1 and R-2 occupancies shall be permitted to egress through other sleeping areas serving adjoining rooms that are part of the same dwelling unit or guest room.
5. Egress shall not pass through kitchens, storage rooms, closets or spaces used for similar purposes.  
  
Exceptions:
  1. Means of egress are not prohibited through a kitchen area serving adjoining rooms constituting part of the same dwelling unit or sleeping unit.
  2. Means of egress are not prohibited through stockrooms in Group M occupancies where all of the following are met:
    - 2.1. The stock is of the same hazard classification as that found in the main retail area.
    - 2.2. Not more than 50 percent of the exit access is through the stockroom.
    - 2.3. The stockroom is not subject to locking from the egress side.
    - 2.4. There is a demarcated, minimum 44-inch-wide (1118 mm) aisle defined by ~~full- or partial-height fixed walls~~ a wall not less than 42 inches high or similar construction that will maintain the required width and lead directly from the retail area to the exit without obstructions.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 10	1016.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-14

Code Section: 1803.2 Investigations required

Modification:

**1803.2 Investigations required.** Geotechnical investigations shall be conducted in accordance with Sections 1803.3 through 1803.5.

**Exception:**

1. The *building official* shall be permitted to waive the requirement for a geotechnical investigation where satisfactory data from adjacent areas is available that demonstrates an investigation is not necessary for any of the conditions in Sections 1803.5.1 through 1803.5.6 and Sections 1803.5.10 and 1803.5.11.

2. For single story buildings not more than 5,000 sq ft and not more than 30ft in height, a site specification investigation report is not required if the seismic design category is determined by the design professional in accordance with Chapter 20 of ASCE 7.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 11	1803.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-16

Code Section: 1907.1 General

Modification:

**SECTION 1907**

**MINIMUM SLAB PROVISIONS**

**1907.1 General.** The thickness of concrete floor slabs supported directly on the ground shall be not less than 3½ inches (89 mm). A 6-mil (0.006 inch; 0.15 mm) 10-mil (0.010 inch) polyethylene ground contact vapor retarder with joints lapped not less than 6 inches (152 mm) shall be placed between the base course or subgrade and the concrete floor slab, or other *approved* equivalent methods or materials shall be used to retard vapor transmission through the floor slab.

**Exception:** A vapor retarder is not required:

1. For detached structures accessory to occupancies in Group R-3, such as garages, utility buildings or other unheated facilities.
2. For unheated storage rooms having an area of less than 70 square feet (6.5 m<sup>2</sup>) and carports attached to occupancies in Group R-3.
3. For buildings of other occupancies where migration of moisture through the slab from below will not be detrimental to the intended occupancy of the building.
4. For driveways, walks, patios and other flatwork that will not be enclosed at a later date.
5. Where *approved* based on local site conditions.

Proponent: Structural Engineers' Association of SC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 12	1907.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-17

Code Section: 2303.2.2 Others means during manufacture

Modification:

**2303.2.2 Other means during manufacture.** For wood products impregnated with chemicals by other means during manufacture, the treatment shall be an integral part of the manufacturing process of the wood product. The treatment shall provide permanent protection to all surfaces of the wood product. ~~The use of paints, coating, stains or other surface treatments is not an approved method of protection as required in this section.~~

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 13	2303.2.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Building Code

Modification Index Number: IBC 2021-18

Code Section: Appendix H Signs

Modification:

Appendix H was adopted for use statewide.

**Appendix H Signs**

Appendix H gathers in one place the various code standards that regulate the construction and protection of outdoor signs. Whenever possible, this appendix provides standards in performance language, thus allowing the widest possible application.

Proponent: Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IBC 2018	IBC 2018 14	Appendix H
IBC 2015	IBC 2015 07	Appendix H
IBC 2012	IBC 2012 05	Appendix H



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-01

Code Section: R202 Definitions

Modification:

**ACCEPTED ENGINEERING PRACTICE** - The performance design of structures and/or structural elements that vary from prescriptive design methods of this code. Such design shall be made with accepted design standards by a South Carolina licensed Architect or Engineer as permitted by existing state law.

Proponent: Coastal Code Enforcement Association of SC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 01	R202 Definitions
IRC 2015	IRC 2015 01	R202 Definitions
IRC 2012	IRC 2012 01	R202 Definitions



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-02

Code Section: R202 Definitions

Modification:

**[RB] CRAWL SPACE.** An underfloor space that is not a *basement*. Spaces under decks and porches that do not contain mechanical equipment are not to be considered crawlspaces.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-04

Code Section: R301.2.1 Wind design criteria

Modification:

**R301.2.1 Wind design criteria.** Buildings and portions thereof shall be constructed in accordance with the wind provisions of this code using the ultimate design wind speed in Table R301.2 as determined from Figure R301.2(2) the previously published maps by the S.C. Building Codes Council. The local building official may delineate the wind design category within their jurisdiction, as long as, it does not surpass those provided on the Applied Technology Council (ATC) website. The structural provisions of this code for wind loads are not permitted where wind design is required as specified in Section R301.2.1.1. Where different construction methods and structural materials are used for various portions of a building, the applicable requirements of this section for each portion shall apply. Where not otherwise specified, the wind loads listed in Table R301.2.1(1) adjusted for height and exposure using Table R301.2.1(2) shall be used to determine design load performance requirements for wall coverings, curtain walls, roof coverings, exterior windows, skylights, garage doors and exterior doors. Asphalt shingles shall be designed for wind speeds in accordance with Section R905.2.4. *Metal roof shingles* shall be designed for wind speeds in accordance with Section R905.4.4. A continuous load path shall be provided to transmit the applicable uplift forces in Section R802.11 from the *roof assembly* to the foundation. Where ultimate design wind speeds in Figure R301.2(2) are less than the lowest wind speed indicated in the prescriptive provisions of this code, the lowest wind speed indicated in the prescriptive provisions of this code shall be used.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-05

Code Section: R301.2.2.1 Determination of seismic design category

Modification:

**R301.2.2.1 Determination of seismic design category.** Buildings shall be assigned a seismic design category in accordance with the previously published maps by the S.C. Building Codes Council. ~~Figures R301.2.2.1(1) through R301.2.2.1(6).~~ The local building official may delineate the seismic design category within the jurisdiction, as long as, it does not surpass those provided on the Applied Technology Council (ATC) website.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-06

Code Section: R302.1 Exterior walls

Modification:

**R302.1 Exterior walls.** Construction, projections, openings and penetrations of exterior walls of *dwelling*s and accessory buildings shall comply with Table R302.1(1); or *dwelling*s equipped throughout with an *automatic sprinkler system* installed in accordance with Section P2904 shall comply with Table R302.1(2).

**Exceptions:**

1. Walls, projections, openings or penetrations in walls perpendicular to the line used to determine the *fire separation distance*.
2. Walls of *individual dwelling units* and their *accessory structures* located on the same *lot*.
3. Detached tool sheds and storage sheds, playhouses and similar structures exempted from *permits* are not required to provide wall protection based on location on the *lot*. Projections beyond the exterior wall shall not extend over the *lot line*.
4. Detached garages accessory to a *dwelling* located within 2 feet (610 mm) of a *lot line* are permitted to have roof eave projections not exceeding 4 inches (102 mm).
5. Foundation vents installed in compliance with this code are permitted.
6. Fire separation distance.
  - a. The minimum fire separation distance for improvement constructed on a lot shown on: [ i ] a recorded bonded or final subdivision plat, or [ ii ] a sketch plan, site plan, plan of phased development or preliminary plat approved by the local governing authority which was recorded or approved prior to the implementation of IRC 2012 which shows or describes lesser setbacks than the fire separation distances provided in Table R302.1(1) shall be equal to the lesser setbacks, but in no event less than 3 feet.
  - b. The minimum fire separation distance for improvements constructed on a lot where the local governing authority has prior to the implementation of IRC 2012: [ i ] accepted exactions or issued conditions, [ ii ] granted a special exception, [ iii ] entered into a development agreement, [ iv ] approved a variance, [ v ] approved a planned development district, or [ vi ] otherwise approved a specific development plan which contemplated or provided for setbacks less than the fire separation distances provided in Table R302.1(1) shall be equal to the lesser setback, but in no event less than 3 feet.

Proponent: Coastal Code Enforcement Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 04	R302.1
IRC 2015	IRC 2015 01	R302.1
IRC 2012	IRC 2012 02	R302.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-07

Code Section: R302.1 Exterior walls

Modification:

**R302.1 Exterior walls.** Construction, projections, openings and penetrations of exterior walls of *dwelling*s and accessory buildings shall comply with Table R302.1(1); or *dwelling*s equipped throughout with an *automatic sprinkler system* installed in accordance with Section P2904 shall comply with Table R302.1(2).

**Exceptions:**

1. Walls, projections, openings or penetrations in walls perpendicular to the line used to determine the *fire separation distance*.
2. Walls of *individual dwelling units* and their *accessory structures* located on the same *lot*.
3. Detached tool sheds and storage sheds, playhouses and similar structures exempted from *permits* are not required to provide wall protection based on location on the *lot*. Projections beyond the exterior wall shall not extend over the *lot line*.
4. Detached garages accessory to a *dwelling* located within 2 feet (610 mm) of a *lot line* are permitted to have roof eave projections not exceeding 4 inches (102 mm).
5. Foundation vents installed in compliance with this code are permitted.
6. Fire separation distance.
  - a. The minimum fire separation distance for improvement constructed on a lot shown on: [ i ] a recorded bonded or final subdivision plat, or [ ii ] a sketch plan, site plan, plan of phased development or preliminary plat approved by the local governing authority which was recorded or approved prior to the implementation of IRC 2012 which shows or describes lesser setbacks than the fire separation distances provided in Table R302.1(1) shall be equal to the lesser setbacks, but in no event less than 3 feet.
  - b. The minimum fire separation distance for improvements constructed on a lot where the local governing authority has prior to the implementation of IRC 2012: [ i ] accepted exactions or issued conditions, [ ii ] granted a special exception, [ iii ] entered into a development agreement, [ iv ] approved a variance, [ v ] approved a planned development district, or [ vi ] otherwise approved a specific development plan which contemplated or provided for setbacks less than the fire separation distances provided in Table R302.1(1) shall be equal to the lesser setback, but in no event less than 3 feet.
7. Aesthetic roof and siding projections may extend beyond the common wall of a townhouse unit over an adjoining unit's property line as long as the construction of the projection does not damage the integrity of the fire rated assembly, the projection is completely supported by the common wall, the projection is protected by one hour construction or fire retardant-treated wood, and the projection is limited to 18-inches. These projections shall not contain any plumbing, electrical or mechanical installations. An easement may be required by the jurisdiction to ensure future access to this projection for repair and maintenance.

\*Modification adds to modified language in IRC 2021-06.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-09

Code Section: R302.4.1 Through penetrations

Modification:

**R302.4.1 Through penetrations.** Through penetrations of fire-resistance-rated wall or floor assemblies shall comply with Section R302.4.1.1 or R302.4.1.2. No penetrations shall pass completely through the fire rated assembly separating townhouse units.

**Exceptions:**

1. Where the penetrating items are steel, ferrous or copper pipes, tubes or conduits, the annular space shall be protected as follows:
  - 1.1. In concrete or masonry wall or floor assemblies, concrete, grout or mortar shall be permitted where installed to the full thickness of the wall or floor assembly or the thickness required to maintain the fire-resistance rating, provided that both of the following are complied with:
    - 1.1.1. The nominal diameter of the penetrating item is not more than 6 inches (152 mm).
    - 1.1.2. The area of the opening through the wall does not exceed 144 square inches (92 900 mm<sup>2</sup>).
  - 1.2. The material used to fill the annular space shall prevent the passage of flame and hot gases sufficient to ignite cotton waste where subjected to ASTM E119 or UL 263 time temperature fire conditions under a positive pressure differential of not less than 0.01 inch of water (3 Pa) at the location of the penetration for the time period equivalent to the fire-resistance rating of the construction penetrated.
2. The annular space created by the penetration of water-filled fire sprinkler piping, provided that the annular space is filled using a material complying with Item 1.2 of Exception 1.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-10

Code Section: R302.5.1 Opening protection

Modification:

**R302.5.1 Opening protection.** Openings from a private garage directly into a room used for sleeping purposes shall not be permitted. Other openings between the garage and residence shall be equipped with solid wood doors not less than 1<sup>3</sup>/<sub>8</sub> inches (35 mm) in thickness, solid or honeycomb-core steel doors not less than 1<sup>3</sup>/<sub>8</sub> inches (35 mm) thick, or 20-minute fire-rated doors. ~~Doors shall be self-latching and equipped with a self-closing or automatic-closing device.~~

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 05	R302.5.1
IRC 2015	IRC 2015 05	R302.5.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-11

Code Section: R302.13 Fire protection of floors

Modification:

**R302.13 Fire protection of floors.** Floor assemblies that are not required elsewhere in this code to be fire-resistance rated, shall be provided with a 1/2-inch (12.7 mm) gypsum wallboard membrane, 5/8-inch (16 mm) *wood structural panel* membrane, or equivalent on the underside of the floor framing member. Penetrations or openings for ducts, vents, electrical outlets, lighting, devices, luminaires, wires, speakers, drainage, piping and similar openings or penetrations shall be permitted.

**Exceptions:**

1. Floor assemblies located directly over a space protected by an automatic sprinkler system in accordance with Section P2904, NFPA 13D, or other *approved* equivalent sprinkler system.
2. ~~Floor assemblies located directly over a *crawl space* not intended for storage or for the installation of fuel-fired or electric-powered heating *appliances*.~~ Floor assemblies located directly over a *crawl space*.
3. Portions of floor assemblies shall be permitted to be unprotected where complying with the following:
  - 3.1. The aggregate area of the unprotected portions does not exceed 80 square feet (7.4 m<sup>2</sup>) per story.
  - 3.2. Fireblocking in accordance with Section R302.11.1 is installed along the perimeter of the unprotected portion to separate the unprotected portion from the remainder of the floor assembly.
4. Wood floor assemblies using dimension lumber or *structural composite lumber* equal to or greater than 2-inch by 10-inch (50.8 mm by 254 mm) nominal dimension, or other *approved* floor assemblies demonstrating equivalent fire performance.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 06	R302.13
IRC 2015	IRC 2015 06	R302.13



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-12

Code Section: R303.4 Mechanical ventilation

Modification:

**R303.4 Mechanical ventilation.** Buildings and dwelling units complying with Section N1102.4.1 shall be provided with mechanical ventilation in accordance with Section M1505, or with other *approved* means of ventilation.

(Section deleted without substitution)

Proponent: Coastal Code Enforcement Association of SC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 07	R303.4
IRC 2015	IRC 2015 07	R303.4
IRC 2012	IRC 2012 05	R303.4



South Carolina Department of Labor, Licensing and Regulation  
South Carolina Building Codes Council  
2021 Modification Index

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-13

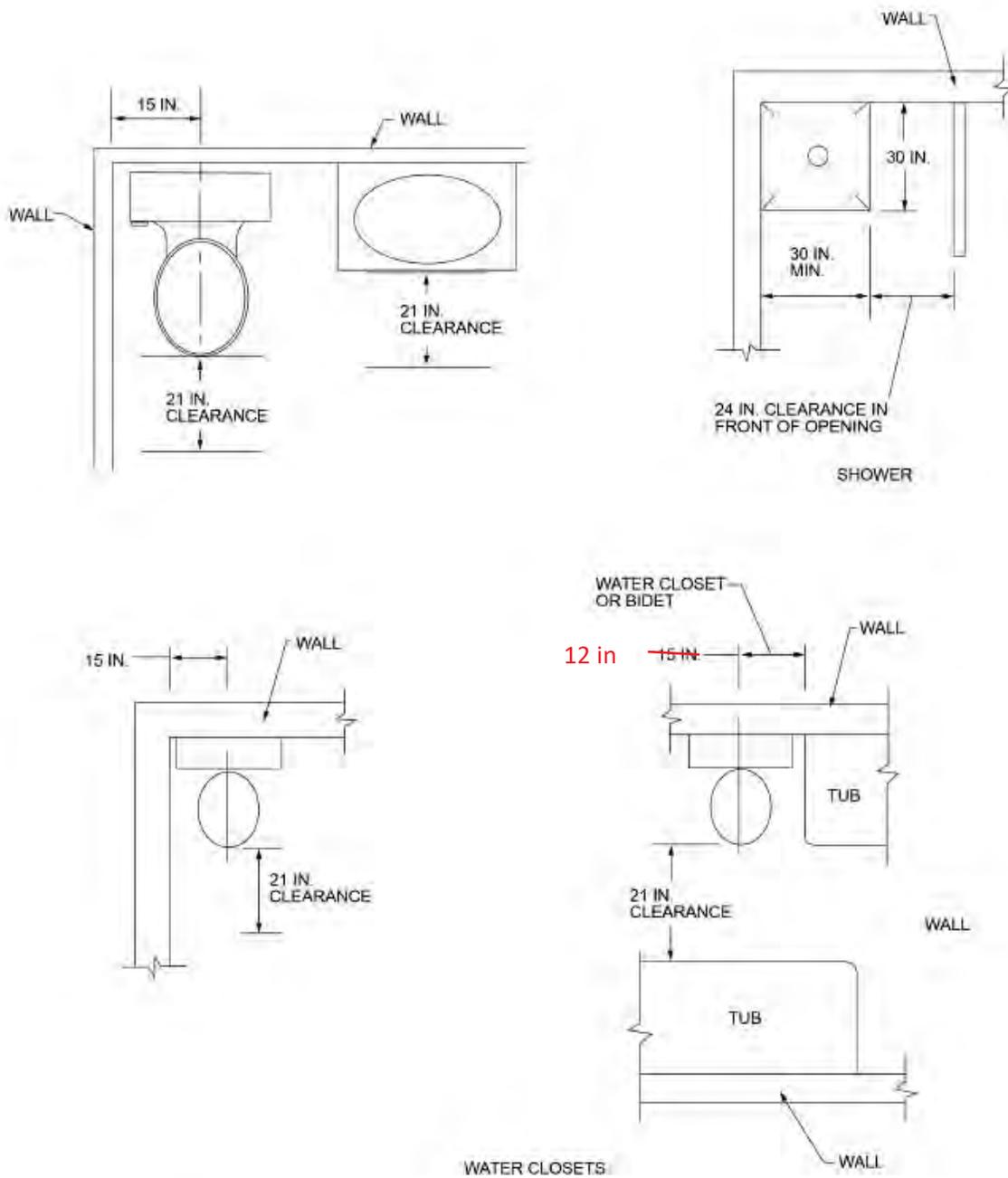
Code Section: Figure R307.1 Minimum Fixture Clearances

Modification:

Change the minimum dimension for the side clearance between bathtub and water closet or bidet from 15 inches to 12 inches. See Figure on next page.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 08	Figure R307.1
IRC 2015	IRC 2015 08	Figure R307.1
IRC 2012	IRC 2012 06	Figure R307.1
IRC 2006	IRC 2006 09	Figure R307.1
IRC 2003	IRC 2003 05	Figure R307.2



For SI: 1 inch = 25.4 mm

FIGURE R307.1  
MINIMUM FIXTURE CLEARANCES



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-15

Code Section: R311.7.5.1 Risers

Modification:

**R311.7.5.1 Risers.** The maximum riser height shall be ~~not more than 7¾ inches (196 mm).~~ The maximum riser height for masonry stairs shall be 8 inches (203 mm). The *riser* height shall be measured vertically between leading edges of the adjacent treads. The greatest *riser* height within any flight of stairs shall not exceed the smallest by more than  $\frac{3}{8}$  inch (9.5 mm). *Risers* shall be vertical or sloped from the underside of the *nosing* of the tread above at an angle not more than 30 degrees (0.51 rad) from the vertical. At open *risers*, openings located more than 30 inches (762 mm), as measured vertically, to the floor or *grade* below shall not permit the passage of a 4-inch-diameter (102 mm) sphere.

**Exceptions:**

1. The opening between adjacent treads is not limited on *spiral-stairways* stairs with a total rise of 30 inches (762 mm) or less.
2. The *riser* height of *spiral stairways* shall be in accordance with Section R311.7.10.1.

Proponent: Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 09	R311.7.5.1
IRC 2015	IRC 2015 09	R311.7.5.1
IRC 2012	IRC 2012 07	R311.7.5.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-16

Code Section: R312.1.1 Where required

Modification:

**R312.1.1 Where required.** *Guards* shall be provided for those portions of open-sided walking surfaces, including floors, stairs, *ramps* and landings that are located more than 30 inches (762 mm) measured vertically to the floor or *grade* below at any point within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a *guard*.

Guards shall be located along open sided walking surfaces of all decks, porches, balconies, floors, stairs, ramps and landings that are located more than 30 inches measured vertically to the floor or grade below and at any point where a downward slope exceeds 3V:12H within 36 inches (914 mm) horizontally to the edge of the open side. Insect screening shall not be considered as a guard.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 10	R312.1.1
IRC 2015	IRC 2015 10	R312.1.1
IRC 2012	IRC 2012 08	R312.1.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-17

Code Section: R312.2 Window fall protection

Modification:

**R312.2 Window fall protection.** Window fall protection shall be provided in accordance with Sections R312.2.1 and R312.2.2

Deleted without substitution.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 11	R312.2
IRC 2015	IRC 2015 11	R312.2
IRC 2012	IRC 2012 09	R312.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-18

Code Section: R313 Automatic Fire Sprinkler Systems

Modification:

**SECTION R313**

**AUTOMATIC FIRE SPRINKLER SYSTEMS**

**R313.1 Townhouse automatic fire sprinkler systems.** An automatic residential fire sprinkler system shall not be required to be installed in townhouses when constructed in accordance with R302.2.

**Exception:** An automatic residential fire sprinkler system shall not be required where *additions* or *alterations* are made to existing *townhouses* that do not have an automatic residential fire sprinkler system installed.

**R313.1.1 Design and installation.** Automatic residential fire sprinkler systems for *townhouses* when installed shall be designed and installed in accordance with Section P2904 or NFPA 13D.

**R313.2 One- and two-family dwellings automatic sprinkler systems.** An automatic residential fire sprinkler system shall be installed shall not be required to be installed in one- and two-family dwellings.

**Exception:** An automatic residential fire sprinkler system shall not be required for *additions* or *alterations* to existing buildings that are not already provided with an automatic residential fire sprinkler system.

**R313.2.1 Design and installation.** Automatic residential fire sprinkler systems when installed shall be designed and installed in accordance with Section P2904 or NFPA 13D.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 12	R313
IRC 2015	IRC 2015 12	R313
IRC 2012	IRC 2012 10	R313.1
IRC 2012	IRC 2012 11	R313.2



South Carolina Department of Labor, Licensing and Regulation  
South Carolina Building Codes Council  
2021 Modification Index

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-22

Code Section: R317.1.1 Field treatment

Modification:

**R317.1.1 Field treatment.** Field-cut ends, notches and drilled holes of preservative-treated wood shall be treated in the field in accordance with AWP A M4 or in accordance with the preservative-treated wood product manufacturer's recommendations.

Proponent: Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 14	R317.1.1
IRC 2015	IRC 2015 13	R317.1.1
IRC 2012	IRC 2012 12	R317.1.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-23

Code Section: R318.1 Subterranean termite control methods

Modification:

**R318.1 Subterranean termite control methods.** In areas subject to damage from termites as indicated by Table R301.2, protection shall be by one, or a combination, of the following methods:

1. Chemical termiticide treatment in accordance with Section R318.2.
2. Termite-baiting system installed and maintained in accordance with the *label*.
3. Pressure-preservative-treated wood in accordance with the provisions of Section R317.1.
4. Naturally durable termite-resistant wood.
5. Physical barriers in accordance with Section R318.3 and used in locations as specified in Section R317.1.
6. Cold-formed steel framing in accordance with Sections R505.2.1 and R603.2.1.
7. Treatments may be conducted as outlined in Section 27-1085 of the Rules and Regulations for the Enforcement of the SC Pesticide Control Act and enforced by the Clemson University Department of Pesticide Regulation.

Proponent: Home Builders Association of SC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 15	R318.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-24

Code Section: R318.4 Foam plastic protection

Modification:

**R318.4 Foam plastic protection.** In areas where the probability of termite infestation is “very heavy” as indicated in Figure R318.4, extruded and expanded polystyrene, polyisocyanurate and other foam plastics shall not be installed on the exterior face or under interior or exterior foundation walls or slab foundations located below *grade*. The clearance between foam plastics installed above *grade* and exposed earth shall be not less than 6 inches (152 mm). For crawl space applications, foam plastic shall be installed so as to provide a termite inspection gap of no less than 6 inches along the top of the foundation wall and foundation sill plate.

**Exceptions:**

1. Buildings where the structural members of walls, floors, ceilings and roofs are entirely of *noncombustible materials* or pressure-preservative-treated wood.
2. Where in addition to the requirements of Section R318.1, an *approved* method of protecting the foam plastic and structure from subterranean termite damage is used.
3. On the interior side of basement *walls*.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 16	R318.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-25

Code Section: R318.5 Termite Inspection Strip

Modification:

**R318.5 Termite Inspection Strip.** Where foam plastic is applied in accordance with R318.4 a continuous 6” strip centered along the sill plate shall be left open for termite activity inspection.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-28

Code Section: R322.1 General

Modification:

**R322.1 General.** Buildings and structures constructed in whole or in part in flood hazard areas, including A or V Zones and Coastal A Zones, as established in Table R301.2, and substantial improvement and *repair* of substantial damage of buildings and structures in flood hazard areas, shall be designed and constructed in accordance with the provisions contained in this section. Buildings and structures that are located in more than one flood hazard area shall comply with the provisions associated with the most restrictive flood hazard area. Buildings and structures located in whole or in part in identified floodways shall be designed and constructed in accordance with ASCE 24. Where there is a conflict with this code section and a locally adopted flood ordinance, the more restrictive provision shall apply.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 18	R322.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-29

Code Section: R326.3 Story above grade plane

Modification:

**R326.3 Story above grade plane.** A habitable attic shall be considered a story above *grade plane*.

**Exceptions:** A habitable attic shall not be considered to be a story above *grade plane* provided that the habitable attic meets all the following:

1. The aggregate area of the habitable attic is either of the following:
  - 1.1. Not greater than ~~one-third~~ three-fourths of the floor area of the story below.
  - 1.2. Not greater than ~~one-half~~ of the floor area of the story below where the habitable attic is located within a dwelling unit equipped with a fire sprinkler system in accordance with Section P2904.
2. The occupiable space is enclosed by the roof assembly above, knee walls, if applicable, on the sides and the floor-ceiling assembly below.
3. The floor of the habitable attic does not extend beyond the exterior walls of the story below.
4. Where a habitable attic is located above a third story, the dwelling unit or townhouse unit shall be equipped with a fire sprinkler system in accordance with Section P2904.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-31

Code Section: R404.1.9.2 Masonry piers supporting floor girders

Modification:

**R404.1.9.2 Masonry piers supporting floor girders.** Masonry piers supporting wood girders sized in accordance with Tables R602.7(1) and R602.7(2) shall be permitted in accordance with this section. Piers supporting girders for interior bearing walls shall have a minimum nominal dimension of 12 inches (305 mm) and a maximum height of 10 feet (3048 mm) be filled solidly with grout or type M or S mortar and shall have a minimum nominal dimension of 8 inches (203 mm) and a maximum height not exceeding 10 times the nominal thickness from top of footing to bottom of sill plate or girder. Piers supporting girders for exterior bearing walls shall have a minimum nominal dimension of 12 inches (305 mm) and a maximum height of 4 feet (1220 mm) from top of footing to bottom of sill plate or girder. Piers supporting beams and girders for exterior bearing walls shall be filled solidly with grout or type M or S mortar, shall contain a minimum of one #4 (13 mm) dowel mid-depth, and shall have a minimum nominal dimension of 8 inches (203 mm) and a maximum height of 4 times the nominal thickness from top of footing to bottom of sill plate or girder unless it can be shown by accepted engineering practice that there is sufficient foundation wall along the foundation line to resist the imposed lateral loads, in which case the maximum height shall not exceed 10 times the nominal thickness. Girders and sill plates shall be anchored to the pier or footing in accordance with Section R403.1.6 or Figure R404.1.5.3. Floor girder bearing shall be in accordance with Section R502.6.

Proponent: HBA of SC & Structural Engineers Association of SC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 20	R404.1.9.2
IRC 2015	IRC 2015 16	R404.1.9.2
IRC 2012	IRC 2012 13	R404.1.9.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-32

Code Section: R408.3 Unvented crawl space

Modification:

**R408.3 Unvented crawl space.** For unvented under-floor spaces, the following items shall be provided:

1. Exposed earth shall be covered with a continuous ~~Class I~~ vapor retarder meeting ASTM E1745 Class A. Joints of the vapor retarder shall overlap by 6 inches (152 mm) and shall be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall or insulation.
2. One of the following shall be provided for the under-floor space:
  - 2.1. Continuously operated mechanical exhaust ventilation at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7m<sup>2</sup>) of *crawl space* floor area, including an air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section N1102.2.10.1 of this code.
  - 2.2. *Conditioned air* supply sized to deliver at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7 m<sup>2</sup>) of under-floor area, including a return air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section N1102.2.10.1 of this code.
  - 2.3. Plenum in existing structures complying with Section M1601.5, if under-floor space is used as a plenum.
  - 2.4. Dehumidification sized in accordance with manufacturer's specifications.

Proponent: Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 21	R408.3



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-33

Code Section: R408.3(2.2) Unvented crawl space

Modification:

**R408.3 Unvented crawl space.** For unvented under-floor spaces, the following items shall be provided:

1. Exposed earth shall be covered with a continuous vapor retarder meeting ASME E1745 Class A. Joints of the vapor retarder shall overlap by 6 inches (152 mm) and shall be sealed or taped. The edges of the vapor retarder shall extend not less than 6 inches (152 mm) up the stem wall and shall be attached and sealed to the stem wall or insulation.
2. One of the following shall be provided for the underfloor space:
  - 2.1. Continuously operated mechanical exhaust ventilation at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7m<sup>2</sup>) of *crawl space* floor area, including an air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with Section N1102.2.10.1 of this code.
  - 2.2. *Conditioned air* supply sized to deliver at a rate equal to 1 cubic foot per minute (0.47 L/s) for each 50 square feet (4.7 m<sup>2</sup>) of underfloor area, including a return air pathway to the common area (such as a duct or transfer grille), and perimeter walls insulated in accordance with ~~Section N1102.2.10.1 of this code~~ the S.C. Energy Code.
  - 2.3. Plenum in existing structures complying with Section M1601.5, if under-floor space is used as a plenum.
  - 2.4. Dehumidification sized in accordance with manufacturer's specifications.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-34

Code Section: R408.4 Access

Modification:

**R408.4 Access.** Access shall be provided to all under-floor spaces. Access openings through the floor shall be not smaller than 18 inches by 24 inches (457 mm by 610 mm). Openings through a perimeter wall shall be not less than 16 inches by 24 inches (407 mm by 610 mm). Where any portion of the through-wall access is below *grade*, an areaway not less than 16 inches by 24 inches (407 mm by 610 mm) shall be provided. The bottom of the areaway shall be below the threshold of the access opening. ~~Through wall access openings shall not be located under a door to the residence.~~ See Section M1305.1.3 for access requirements where mechanical *equipment* is located under floors.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 22	R408.4
IRC 2015	IRC 2015 17	R408.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-35

Code Section: R408.8 Under-floor vapor retarder

Modification:

**R408.8 Under-floor vapor retarder.** In Climate Zones 1A, 2A and 3A below the warm-humid line, a continuous Class I or II vapor retarder shall be provided on the exposed face of air-permeable insulation installed between the floor joists and exposed to the grade in the under-floor space. The vapor retarder shall have a maximum water vapor permeance of 1.5 perms when tested in accordance with Procedure B of ASTM E96.

**Exception:** The vapor retarder shall not be required in unvented *crawl spaces* constructed in accordance with Section R408.3.

Deleted without substitution.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-36

Code Section: R502.11.4 Truss design drawings

**Modification:**

**R502.11.4 Truss design drawings.** *Truss design drawings*, prepared in compliance with Section R502.11.1, shall be submitted to the *building official* ~~and approved prior to installation at the time of their inspection.~~ *Truss design drawings* shall be provided with the shipment of trusses delivered to the job site. *Truss design drawings* shall include, at a minimum, the information specified as follows:

1. Slope or depth, span and spacing.
2. Location of all joints.
3. Required bearing widths.
4. Design loads as applicable:
  - 4.1. Top chord *live load*.
  - 4.2. Top chord dead load.
  - 4.3. Bottom chord *live load*.
  - 4.4. Bottom chord dead load.
  - 4.5. Concentrated loads and their points of application.
  - 4.6. Controlling wind and earthquake loads.
5. Adjustments to lumber and joint connector design values for conditions of use.
6. Each reaction force and direction.
7. Joint connector type and description, such as size, thickness or gage, and the dimensioned location of each joint connector except where symmetrically located relative to the joint interface.
8. Lumber size, species and grade for each member.
9. Connection requirements for:
  - 9.1. Truss-to-girder-truss.
  - 9.2. Truss ply-to-ply.
  - 9.3. Field splices.
10. Calculated deflection ratio, maximum description for live and total load, or both.
11. Maximum axial compression forces in the truss members to enable the building designer to design the size, connections and anchorage of the permanent continuous lateral bracing. Forces shall be shown on the truss drawing or on supplemental documents.
12. Required permanent truss member bracing location.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 23	R502.11.4
IRC 2015	IRC 2015 18	R502.11.4
IRC 2012	IRC 2012 14	R502.11.4
IRC 2006	IRC 2006 21	R502.11.4
IRC 2003	IRC 2003 17	R502.11.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-37

Code Section: R506.2.3 Vapor retarder

Modification:

**R506.2.3 Vapor retarder.** A minimum 10-mil (0.010 inch; 0.254 mm) vapor retarder conforming to ASTM E1745 Class A requirements with joints lapped not less than 6 inches (152 mm) shall be placed between the concrete floor slab and the base course or the prepared subgrade where a base course does not exist.

**Exception:** The vapor retarder is not required for the following:

1. ~~Garages~~, utility buildings and other unheated *accessory structures*.
2. For unheated storage rooms having an area of less than 70 square feet (6.5 m<sup>2</sup>) and carports.
3. Driveways, walks, patios and other flatwork not likely to be enclosed and heated at a later date.
4. Where *approved* by the *building official*, based on local site conditions.

Proponent: Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 24	R506.2.3
IRC 2015	IRC 2015 19	R506.2.3



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-38

Code Section: R606.7 Piers

Modification:

**R606.7 Piers.** The unsupported height of masonry piers shall not exceed 10 times their least dimension. Where structural clay tile or hollow *concrete masonry units* are used for isolated piers to support beams and girders, the cellular spaces shall be filled solidly with grout or Type M or S mortar, except that unfilled hollow piers shall be permitted to be used if their unsupported height is not more than four times their least dimension. Where *hollow masonry units* are solidly filled with grout or Type M, S or N mortar, the allowable compressive stress shall be permitted to be increased as provided in Table R606.9.

Proponent: Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 25	R606.7
IRC 2015	IRC 2015 20	R606.7



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-39

Code Section: R802.10.1 Truss design drawings

Modification:

**R802.10.1 Truss design drawings.** *Truss design drawings*, prepared in conformance to Section R802.10.1, shall be provided to the *building official* and ~~approved prior to installation~~ at the time of their inspection. *Truss design drawings* shall be provided with the shipment of trusses delivered to the job site. *Truss design drawings* shall include, at a minimum, the following information:  
 (items 1-12 unchanged)

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 26	R802.10.1
IRC 2015	IRC 2015 21	R802.10.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-40

Code Section: R905.2.8.5 Drip edge

Modification:

**R905.2.8.5 Drip edge.** A drip edge shall be provided at eaves and rake edges of shingle roofs. Adjacent segments of drip edge shall be overlapped not less than 2 inches (51 mm). Drip edges shall extend not less than 1/4 inch (6.4 mm) below the roof sheathing and extend up back onto the *roof deck* not less than 2 inches (51 mm). Drip edges shall be mechanically fastened to the *roof deck* at not more than 12 inches (305 mm) o.c. with fasteners as specified in Section R905.2.5. *Underlayment* shall be installed over the drip edge along eaves and under the drip edge along rake edges. A drip edge shall be provided at eaves and rake edges of asphalt shingle roofs where required by the manufacturer.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 27	R905.2.8.5
IRC 2015	IRC 2015 22	R905.2.8.5



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-41

Code Section: Chapter 11 Energy Efficiency

Modification:

**CHAPTER 11 [RE]  
ENERGY EFFICIENCY**

Chapter deleted without substitution. The State of South Carolina has specific energy standards in statutory form (Re: Title 6, Chapter 9, Building Codes and Title 6, Chapter 10, Building Energy Efficiency Standard Act). To eliminate any possible conflicts concerning the insulation requirements for single and two family residential buildings between the International Residential Code and state law, Chapter 11 was deleted.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 28	Chapter 11
IRC 2015	IRC 2015 22	Chapter 11
IRC 2012	IRC 2012 16	Chapter 11
IRC 2006	IRC 2006 27	Chapter 11
IRC 2003	IRC 2003 21	Chapter 11



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-42

Code Section: M1411.6 Insulation and refrigerant piping

Modification:

**M1411.6 Insulation of refrigerant piping.** Piping and fittings for refrigerant vapor (suction) lines shall be insulated with insulation having a thermal resistivity of ~~not less than R-3~~ at least R 2.5 hr. ft 2 F/Btu and having external surface permeance not exceeding 0.05 perm [2.87 ng/(s × m<sup>2</sup> × Pa)] when tested in accordance with ASTM E96.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 29	M1411.6
IRC 2015	IRC 2015 24	M1411.6
IRC 2012	IRC 2012 18	M1411.6
IRC 2006	IRC 2006 28	M1411.5
IRC 2003	IRC 2003 22	M1411.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-43

Code Section: M1411.9 Locking access port caps

Modification:

**M1411.9 Locking access port caps.** Refrigerant circuit access ports located outdoors shall be fitted with locking type tamper-resistant caps or shall be otherwise secured to prevent unauthorized access.

Deleted without substitution.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 30	M1411.8
IRC 2015	IRC 2015 25	M1411.6
IRC 2012	IRC 2012 18	M1411.6



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-44

Code Section: M1502.3 Duct termination

Modification:

**M1502.3 Duct termination.** Exhaust ducts shall terminate on the outside of the building. Exhaust duct terminations shall be in accordance with the dryer manufacturer's installation instructions. ~~If the manufacturer's instructions do not specify a termination location, the exhaust duct shall terminate not less than 3 feet (914 mm) in any direction from openings into buildings, including openings in ventilated soffits.~~ Exhaust duct terminations shall be equipped with a backdraft damper. Screens shall not be installed at the duct termination.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 31	M1502.3
IRC 2015	IRC 2015 26	M1502.3
IRC 2012	IRC 2012 19	M1502.3
IRC 2006	IRC 2006 29	M1502.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-45

Code Section: M1502.4.2 Duct installation

Modification:

**M1502.4.2 Duct installation.** Exhaust ducts shall be supported at intervals not to exceed 8 feet and within 16 inches of each side of a joint that is not installed in a vertical orientation, 12 feet (3658 mm) and shall be secured in place, making rigid contact with the duct at not less than 4 equally spaced points or 2/3rds contact if strap is used. All brackets or strapping must be noncombustible. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. The overlap shall comply with Section M1601.4.2. Ducts shall not be joined with screws or similar devices that protrude into the inside of the duct. Exhaust ducts joints shall be sealed in accordance with Section M1601.4.1. and shall be mechanically fastened. Ducts shall not be joined with screws or similar fasteners that protrude more than 1/8 inch (3.2 mm) into the inside of the duct. Where dryer exhaust ducts are enclosed in wall or ceiling cavities, such cavities shall allow the installation of the duct without deformation. The duct work may be ovalized as long as it terminates in an approved duct box. Minor imperfections located on the duct, in areas other than along the seam, do not constitute a violation.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 32	M1502.4.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-46

Code Section: M1502.4.6 Duct length

Modification:

**M1502.4.6 Duct length.** ~~The maximum allowable exhaust duct length shall be determined by one of the methods specified in Sections M1502.4.6.1 through M1502.4.6.3.~~ The maximum length of a clothes dryer exhaust duct shall not exceed 35 feet (10668 mm) from the dryer location to the wall or roof termination.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 33	M1502.4.5
IRC 2015	IRC 2015 27	M1502.4.4
IRC 2012	IRC 2012 20	M1502.4.4
IRC 2006	IRC 2006 30	M1502.6



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-47

Code Section: M1503.6 Makeup air

Modification:

**M1503.6 Makeup air required.** Where one or more gas, liquid or solid fuel-burning *appliance* that is neither directvent nor uses a mechanical draft venting system is located within a dwelling unit's air barrier, each exhaust system capable of exhausting in excess of 400 cubic feet per minute (0.19 m<sup>3</sup>/s) shall be mechanically or passively provided with makeup air at a rate approximately equal to the exhaust air rate. Such makeup air systems shall be equipped with not fewer than one damper complying with Section M1503.6.2.

**Exception:** Makeup air is not required for exhaust systems installed for the exclusive purpose of space cooling and intended to be operated only when windows or other air inlets are open.

Exhaust hood systems capable of exhausting more than 400 cubic feet per minute (0.19m<sup>3</sup> /s) shall be mechanically or naturally provided with makeup air at a rate approximately equal to the exhaust air rate more than 400 cubic feet per minute. Such makeup air systems shall be equipped with not less than one damper. Each damper shall be a gravity damper or an electrically operated damper that automatically opens when the exhaust system operates. Dampers shall be accessible for inspection, service, repair and replacement without removing permanent construction or any other ducts not connected to the damper being inspected, serviced, repaired or replaced.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 34	M1503.6
IRC 2015	IRC 2015 28	M1503.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-48

Code Section: M1504.3 Exhaust openings

Modification:

**M1504.3 Exhaust openings.** Air exhaust openings shall terminate as follows:

1. Not less than 3 feet (914 mm) from property lines.
2. Not less than 3 feet (914 mm) from gravity air intake openings, operable windows and doors.
3. Not less than 10 feet (3048 mm) from mechanical air intake openings except where the exhaust opening is located not less than 3 feet (914 mm) above the air intake opening. Openings shall comply with Sections R303.5.2 and R303.6.

Exception: Bathrooms, water closets and shower spaces.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 35	M1504.3



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-49

Code Section: M1601.4.1 Joints, Seams and Connections

Modification:

**M1601.4.1 Joints, seams and connections.** Longitudinal and transverse joints, seams and connections in metallic and nonmetallic ducts shall be constructed as specified in SMACNA *HVAC Duct Construction Standards --Metal and Flexible* and NAIMA *Fibrous Glass Duct Construction Standards*. Joints, longitudinal and transverse seams, and connections in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic plus-embedded-fabric systems, liquid sealants or tapes. Tapes and mastics used to seal fibrous glass ductwork shall be *listed* and *labeled* in accordance with UL 181A and shall be marked “181A-P” for pressure sensitive tape, “181 A-M” for mastic or “181 A-H” for heat-sensitive tape.

Tapes and mastics used to seal metallic and flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked “181 B-FX” for pressure-sensitive tape or “181 BM” for mastic. Duct connections to flanges of air distribution system *equipment* shall be sealed and mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked 181B-C. Crimp joints for round metallic ducts shall have a contact lap of not less than 1 inch (25 mm) and shall be mechanically fastened by means of not less than three sheet-metal screws or rivets equally spaced around the joint. Closure systems used to seal all ductwork shall be installed in accordance with the manufacturers' instructions.

**Exceptions:**

1. Spray polyurethane foam shall be permitted to be applied without additional joint seals.
2. Where a duct connection is made that is partially without access, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
3. For ducts having a static pressure classification of less than 2 inches of water column (500 Pa), additional closure systems shall not be required for continuously welded joints and seams and locking-type joints and seams. ~~This exception shall not apply to snap-lock and button-lock type joints and seams that are located outside of conditioned spaces.~~

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 36	M1601.4.1
IRC 2015	IRC 2015 29	M1601.4.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-50

Code Section: G2418.2 Design and installation

Modification:

**G2418.2 (407.2) Design and installation.** *Piping* shall be supported with ~~metal~~ pipe hooks, ~~metal~~ pipe straps, ~~metal~~ bands, ~~metal~~ brackets, ~~metal~~ hangers or building structural components suitable for the size of *piping*, of adequate strength and quality, and located at intervals so as to prevent or damp out excessive vibration. *Piping* shall be anchored to prevent undue strains on connected *appliances* and shall not be supported by other *piping*. Pipe hangers and supports shall conform to the requirements of MSS SP-58 and shall be spaced in accordance with Section G2424. Supports, hangers and anchors shall be installed so as not to interfere with the free expansion and contraction of the *piping* between anchors. The components of the supporting *equipment* shall be designed and installed so that they will not be disengaged by movement of the supported *piping*.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 37	G2418.2
IRC 2015	IRC 2015 30	G2418.2
IRC 2012	IRC 2012 21	G2418.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-51

Code Section: P2503.6 Shower liner test

Modification:

**P2503.6 Shower liner test.** Where shower floors and receptors are made watertight by the application of materials required by Section P2709.2, the completed liner installation shall be tested. The pipe from the shower drain shall be plugged watertight for the test. The floor and receptor area shall be filled with potable water to a depth of not less than 2 inches (51 mm) measured at the threshold. Where a threshold of not less than 2 inches (51 mm) in height does not exist, a temporary threshold shall be constructed to retain the test water in the lined floor or receptor area to a level not less than 2 inches (51 mm) in depth measured at the threshold. The water shall be retained Shower liner shall be tested to the lesser of the depth of threshold or 2” and shall be operated at normal pressure for a test period of not less than 15 minutes and there shall not be evidence of leakage.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 38	P2503.6
IRC 2015	IRC 2015 31	P2503.6
IRC 2012	IRC 2012 22	P2503.6



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-52

Code Section: P2503.6 Shower liner test

Modification:

**P2503.6 Shower liner test.** Where shower floors and receptors are made watertight by the application of materials required by Section P2709.2, the completed liner installation shall be tested. Shower liner shall be tested to the lesser of the depth of threshold or 2” and shall be operated at normal pressure for a test period of not less than 15 minutes and there shall not be evidence of leakage. The shower liner test shall be performed at the final plumbing inspection.

\*Modification adds to modified language in IRC 2021-51.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-53

Code Section: P2603.2.1 Protection against physical damage

Modification:

**P2603.2.1 Protection against physical damage.** In concealed locations, where piping, other than cast-iron or galvanized steel, is installed through holes or notches in studs, joists, rafters or similar members less than 1¼ inches (31.8 mm) from the nearest edge of the member, the pipe shall be protected by steel shield plates. Such shield plates shall have a thickness of not less than 0.0575 inch (1.463 mm) (No. 16 Gage). Such plates shall cover the area of the pipe where the member is notched or bored, and shall extend not less than 2 inches (51 mm) above sole plates and below top plates. Steel shield plates shall not be secured with nails or screws, unless required by the manufacturer.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-54

Code Section: P2603.5 Freezing

Modification:

**P2603.5 Freezing.** In localities having a winter design temperature of 32°F (0°C) or lower as shown in Table R301.2 of this code, a water, soil or waste pipe shall not be installed outside of a building, in exterior walls, in *attics* or crawl spaces, or in any other place subjected to freezing temperature unless adequate provision is made to protect it from freezing by insulation or heat or both. Water service pipe shall be installed not less than 12 inches (305 mm) deep and not less than 6 inches (152 mm) below the frost line.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 39	P2603.5
IRC 2015	IRC 2015 32	P2603.5



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-55

Code Section: P2603.5 Freezing

Modification:

**P2603.5 Freezing.** In localities having a winter design temperature of 32°F (0°C) or lower as shown in Table R301.2 of this code, a water pipe shall not be installed outside of a building, in exterior walls, in *attics* or crawl spaces, or in any other place subjected to freezing temperature unless adequate provision is made to protect it from freezing by insulation or heat or both. Water service pipe shall be installed not less than 12 inches (305 mm) deep and not less than 6 inches (152 mm) below the frost line.

Exception: Water pipes that are installed on the warm in winter side of the building envelope, i.e. above the insulation line in a floor system or below the insulation line in an attic, do not need additional pipe insulation.

\*Modification adds to modified language in IRC 2021-54.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
n/a		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-56

Code Section: P2705.1(3) General

Modification:

**P2705.1 General.** The installation of fixtures shall conform to the following:

1. Floor-outlet or floor-mounted fixtures shall be secured to the drainage connection and to the floor, where so designed, by screws, bolts, washers, nuts and similar fasteners of copper, copper alloy or other corrosion-resistant material.
2. Wall-hung fixtures shall be rigidly supported so that strain is not transmitted to the plumbing system.
3. Where fixtures come in contact with walls and floors, the contact area shall be watertight.

Exception: Water closets and/or bidets shall not be required to be caulked to flooring surface.

4. Plumbing fixtures shall be usable.
5. Water closets, lavatories and bidets. A water closet, lavatory or bidet shall not be set closer than 15 inches (381 mm) from its center to any side wall, partition or vanity or closer than ~~30 inches (762 mm)~~ 27 inches center-to-center between adjacent fixtures. There shall be a clearance of not less than 21 inches (533 mm) in front of a water closet, lavatory or bidet to any wall, fixture or door.
6. The location of piping, fixtures or equipment shall not interfere with the operation of windows or doors.
7. In flood hazard areas as established by Table R301.2, plumbing fixtures shall be located or installed in accordance with Section R322.1.6.
8. Integral fixture-fitting mounting surfaces on manufactured plumbing fixtures or plumbing fixtures constructed on site, shall meet the design requirements of ASME A112.19.2/CSA B45.1 or ASME A112.19.3/CSA B45.4.

\*Modification includes the approved portion of IRC 2021-14 in (5).

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-57

Code Section: P2708.4 Shower control valves

Modification:

**P2708.4 Shower control valves.** Individual shower and tub/shower combination valves shall be balanced-pressure, thermostatic or combination balanced-pressure/thermostatic valves that conform to the requirements of ASSE 1016/ASME 112.1016/CSA B125.16 or ASME A112.18.1/CSA B125.1. ~~Shower control valves shall be rated for the flow rate of the installed shower head. Such valves shall be installed at the point of use.~~ Shower and tub/shower combination valves required by this section shall be equipped with a means to limit the maximum setting of the valve to 120°F (49°C), which shall be field adjusted in accordance with the manufacturer's instructions to provide water at a temperature not to exceed 120°F (49°C). In-line thermostatic valves shall not be utilized for compliance with this section.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-58

Code Section: P2713.3 Bathtub and whirlpool bathtub valves

Modification:

**P2713.3 Bathtub and whirlpool bathtub valves.** Bathtubs and whirlpool bathtub valves shall have or be supplied by a water-temperature-limiting device that conforms to ASSE 1070/ASME A112.1070/CSA B125.70, except where such valves are combination tub/shower valves in accordance with Section P2708.4. The water-temperature-limiting device required by this section shall be equipped with a means to limit the maximum setting of the device to 120°F (49°C), and, where adjustable, shall be field-adjusted in accordance with the manufacturer's instructions to provide hot water at a temperature not to exceed 120°F (49°C). Access shall be provided to water-temperature-limiting devices that conform to ASSE 1070/ASME A112.1070/CSA B125.70.

**Exception:** Access is not required for nonadjustable water-temperature-limiting devices that conform to ASSE 1070/ASME A112.1070/CSA B125.70 and are integral with a fixture fitting, provided that the fixture fitting itself can be accessed for replacement.

Hot water supplied to bathtubs and whirlpool bathtubs shall be limited to a temperature of not greater than 120°F (49°C) by a water-temperature limiting device that conforms to ASSE 1070/ASME A112.1070/CSA B125.70 or CSA B125.3, except where such protection is otherwise provided by a combination tub/shower valve in accordance with Section P2708.4.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-60

Code Section: P2903.10 Hose bib

Modification:

**P2903.10 Hose bib.** Hose bibbs subject to freezing, including the “frostproof” type, shall be equipped with an accessible stop-and-waste-type valve inside the building so that they can be controlled and drained during cold periods.

**Exception:** Frostproof hose bibbs installed such that the stem extends through the building insulation into an open heated or *semiconditioned space* need not be separately valved (see Figure P2903.10).

Section deleted without substitution.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 40	P2903.10
IRC 2015	IRC 2015 33	P2903.10



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-62

Code Section: P2904.2.4.2.1 Additional requirements for pendant sprinklers

Modification:

**P2904.2.4.2.1 Additional requirements for pendent sprinklers.** Pendent sprinklers within 3 feet (915 mm) of the center of a ceiling fan, surface mounted ceiling luminaire or similar object shall be considered to be obstructed, and additional sprinklers shall be installed.

**Exception:** Pendant sprinklers within 3 feet (915 mm) of the center of a ceiling fan shall not be considered to be obstructed if the total area of the fan blades do not exceed more than 50 percent of the plan area view.

Proponent: South Carolina Master Plumbers Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-66

Code Section: E3606.5 Surge protection

Modification:

~~**E3606.5 Surge protection.** All services supplying one- and two-family dwelling units shall be provided with a surgeprotective device (SPD) installed in accordance with Sections E3606.5.1 through E3606.5.3.~~

~~**E3606.5.1 Location.** The SPD shall be an integral part of the service equipment or shall be located immediately adjacent thereto.~~

~~**Exception:** The SPD shall not be required to be located in the service equipment if located at each next-level distribution equipment downstream toward the load.~~

~~**E3606.5.2 Type.** The SPD shall be a Type 1 or Type 2 SPD.~~

~~**E3606.5.3 Replacement.** Where service equipment is replaced, all of the requirements of this section shall apply. [230.67]~~

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-67

Code Section: E3802.4 In unfinished basements

Modification:

**E3802.4 In unfinished basements and crawl spaces.** Where Type NM or SE cable is run at angles with joists in unfinished basements and crawl spaces, cable assemblies containing two or more conductors of sizes 6 AWG and larger and assemblies containing three or more conductors of sizes 8 AWG and larger shall not require additional protection where attached directly to the bottom of the joists. Smaller cables shall be run either through bored holes in joists or on running boards. Type NM or SE cable installed on the wall of an unfinished basement shall be permitted to be installed in a *listed* conduit or tubing or shall be protected in accordance with Table E3802.1. Conduit or tubing shall be provided with a suitable insulating bushing or adapter at the point where the cable enters the raceway. The sheath of the Type NM or SE cable shall extend through the conduit or tubing and into the outlet or device box not less than 1/4 inch (6.4 mm). The cable shall be secured within 12 inches (305 mm) of the point where the cable enters the conduit or tubing. Metal conduit, tubing, and metal outlet boxes shall be connected to an equipment grounding conductor complying with Section E3908.14. [334.15(C)]

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 42	E3802.4
IRC 2015	IRC 2015 35	E3802.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-69

Code Section: E3901.4.2 (1) Island and peninsular countertops and work spaces

Modification:

**E3901.4.2 Island and peninsular countertops and work spaces.** Receptacle outlets shall be installed in accordance with the following: [210.52(C)(2)]

1. At least one receptacle outlet shall be provided for the first 9-square feet 6 feet of length (0.84 m<sup>2</sup>), or fraction thereof, of the countertop or work surface. ~~A receptacle outlet shall be provided for every additional 18 square feet (1.7 m<sup>2</sup>), or fraction thereof, of the countertop or work surface.~~ [210.52(C)(2)(a)] A minimum of two receptacle outlets shall be provided for any island over 6 feet long.
2. At least one receptacle outlet shall be located within 2 feet (600 mm) of the outer end of a peninsular countertop or work surface. Additional receptacle outlets shall be permitted to be located as determined by the installer, designer or building owner. The location of the receptacle outlets shall be in accordance with Section E3901.4.3. [210.52(C)(2)(b)]

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-70

Code Section: E3902 Ground-Fault and Arc-Fault Circuit-Interrupter Protection

Modification:

**SECTION E3902**  
**GROUND-FAULT AND ARC-FAULT**  
**CIRCUIT-INTERRUPTER PROTECTION**

Entire section E3902.1 - E3902.18 modified to remove “through 250 volt” from text.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-71

Code Section: E3902.5 Basement receptacles

Modification:

**E3902.5 Basement receptacles.** 125-volt receptacles installed in basements and supplied by single phase branch circuits rated 150 volts or less to ground shall have ground-fault circuit-interrupter protection for personnel. [210.8(A)(5)]

**Exceptions:**

1. A receptacle supplying only a permanently installed fire alarm or burglar alarm system. A receptacle installed in accordance with this exception shall not be considered as meeting the requirement of Section E3901.9. Receptacles installed in accordance with this exception shall not be considered as meeting the requirement of Section E3901.9. [210.8(A)(5) Exception]

2. Receptacles in walk-out basements are excluded from this requirement.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-73

Code Section: E3902.17 Arc-fault circuit interrupter protection

Modification:

**E3902.17 Arc-fault circuit interrupter protection.** ~~In areas other than kitchen and laundry areas, B~~branch circuits that supply 120-volt, single-phase, 15- and 20- ampere outlets installed in ~~kitchens~~, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, *sunrooms*, recreations rooms, closets, hallways, ~~laundry areas~~ and similar rooms or areas shall be protected by any of the following: [210.12(A)]

(language in 1 - 6 unchanged)

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 44	3902.16



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-75

Code Section: E4002.14 Tamper-resistant receptacles

Modification:

**E4002.14 Tamper-resistant receptacles.** In areas specified in Section E3901.1, 15- and 20-ampere, 125- and 250-volt nonlocking-type receptacles shall be *listed* tamper-resistant receptacles. [406.12]

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-76

Code Section: Chapter 44 Referenced Standards

Modification:

<p><b>ANCE</b></p> <p><del>NMX-J-521/2-40-ANCE --2014/CAN/CSA-22.2 No. 60335-2-40 --12/UL-60335-2-40: Safety of Household and Similar Electric Appliances, Part 2-40: Particular Requirements for Heat Pumps, Air-Conditioners and Dehumidifiers</del></p> <p>M1403.1, M1412.1, M1413.1</p>	<p style="text-align: right;">Association of Standardization and Certification</p> <p style="text-align: right;">Av. Lázaro Cárdenas No. 869</p> <p style="text-align: right;">Fraccion 3</p> <p style="text-align: right;">Col. Nva. Industrial Vallejo</p> <p style="text-align: right;">Deleg. Gustavo A. Madero</p> <p style="text-align: right;">Mexico, D.F.</p>
<p><b>CSA</b></p> <p><del>CAN/CSA/C22.2 No. 60335-2-40 --2012 2019:</del></p> <p>M1402.1, M1403.1, M1412.1, M1413.1, M2006.1</p>	<p style="text-align: right;">CSA Group</p> <p style="text-align: right;">8501 East Pleasant Valley Road</p> <p style="text-align: right;">Cleveland, OH 44131-5516</p> <p style="text-align: right;"><b>Safety of Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers <u>3<sup>rd</sup> edition</u></b></p>
<p><b>UL</b></p> <p><del>UL/CSA/ANCE 60335-2-40 --2012 2019: Standard for Household and Similar Electrical Appliances, Part 2-40: Particular Requirements for Motor-compressors Electrical Heat Pumps, Air-Conditioners and Dehumidifiers</del></p> <p>M1402.1, M1403.1, M1412.1, M1413.1, M2006.1</p>	<p style="text-align: right;">UL LLC</p> <p style="text-align: right;">333 Pflingsten Road</p> <p style="text-align: right;">Northbrook, IL 60062</p>

Proponent: Air-Conditioning, Heating and Refrigeration Institute (AHRI)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-77

Code Section: Appendix AH Patio Covers

Modification:

**APPENDIX AH**  
**PATIO COVERS**

Appendix adopted for use statewide.

Proponent: Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 45	Appendix H
IRC 2015	IRC 2015 36	Appendix H
IRC 2012	IRC 2012 25	Appendix H



**South Carolina Department of Labor, Licensing and Regulation  
South Carolina Building Codes Council  
2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-78

Code Section: Appendix AJ Existing Buildings and Structures

Modification:

**APPENDIX AJ  
EXISTING BUILDINGS AND STRUCTURES**

Appendix adopted for use statewide.

Proponent: Structural Engineers Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 46	Appendix J
IRC 2015	IRC 2015 37	Appendix J



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Residential Code

Modification Index Number: IRC 2021-79

Code Section: Appendix AQ Tiny Houses

Modification:

**APPENDIX AQ  
TINY HOUSES**

Appendix adopted for use statewide.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IRC 2018	IRC 2018 47	Appendix Q



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-02

Code Section: 202 General definitions

Modification:

**Primitive Camp Structure:** Shall include any structure permanent or temporary in nature, used for outdoor camping (transient), open on at least one side with no fully enclosed habitable spaces, less than 400 square feet under roof, and not classified as a residential occupancy due to lack of electrical, plumbing, mechanical, and sprinkler systems.

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 02	202



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-03

Code Section: 202 General definitions

**Modification:**

[BG] Assembly Group A-3. Group A-3 occupancy includes assembly uses intended for worship, recreation or amusement and other assembly uses not classified elsewhere in Group A, including, but not limited to:

- Amusement arcades
- Art galleries
- Bowling alleys
- Community halls
- Courtrooms
- Dance halls (not including food or drink consumption)
- Exhibition halls
- Funeral parlors
- Greenhouses with public access for the conservation and exhibition of plants
- Gymnasiums (without spectator seating)
- Indoor swimming pools (without spectator seating)
- Indoor tennis courts (without spectator seating) Lecture halls
- Libraries
- Museums
- Places of religious worship
- Pool and billiard parlors
- Structures without a commercial kitchen, used in agritourism activity as defined by S.C. Code Ann. 46-53-10(1)
- Waiting areas in transportation terminals

Proponent: BOASC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 03	202



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-04

Code Section: 202 General definitions

**Modification:**

RECREATIONAL FIRE. An outdoor fire burning materials other than rubbish where the fuel being burned is not contained in an incinerator, outdoor fireplace, portable outdoor fireplace, barbeque grill or barbeque pit and has a total fuel area of 3 feet (914 mm) or less in diameter and 2 feet (610 mm) or less in height for pleasure, religious, ceremonial to include sky lanterns, cooking, warmth or similar purpose.

Proponent: South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 01	202
IFC 2015	IFC 2015 01	202
IFC 2012	IFC 2012 01	202



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-05

Code Section: 315.3.3 Equipment rooms

Modification:

**315.3.3 Equipment rooms.** Combustible Material shall not be stored in boiler rooms, mechanical rooms, electrical equipment rooms or in *fire command centers* as specified in Section 508.1.5. Rooms shall be labeled with approved signage “No storage allowed”.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-07

Code Section: 319.11 Clearance requirements

Modification:

**319.11 Mobile cooking operations.** Shall be separated from buildings, structures, canopies, tents, combustible materials, vehicles, and other cooking operations by a minimum of 10 feet. Exhaust shall be directed away from openings, air intakes and away from any means of egress.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-08

Code Section: 503.1.2 Additional access

Modification:

**503.1.2 Additional access.** The *fire code official* is authorized to require more than one fire apparatus access road based on the potential for impairment of a single road by vehicle congestion, condition of terrain, climatic conditions or other factors that could limit access.

**Exception.** Where two fire apparatus access roads are required by Section 503.1.2 or this appendix, the additional fire apparatus access road is permitted to be a driveway, pathway, court or other approved *fire lane* not accessible to public motor vehicles where designed by a registered design professional to meet the loading requirements and minimum specifications of Section 503 and this appendix, and the surface provides all-weather driving capabilities. Marking or signs shall be provided in accordance with Section 503.3 and Section D103.6

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-09

Code Section: 503.1.2.1

Modification:

**503.1.2.1 One- or two-family dwelling residential developments having less than 50 units.** Developments of one- or two-family dwellings where the number of dwelling units does not exceed 50 shall be permitted to have a single approved fire apparatus access road provided all of the following requirements are met.

1. The minimum unobstructed width of the single fire apparatus access road shall be 26 feet (7925 mm) and shall otherwise comply with Section 503.
2. A minimum of one fire hydrant on each side of the fire apparatus access road in accordance with Section 507.5 shall be provided. The fire code official shall be permitted to require additional hydrants and hydrant spacing based on the length of the fire apparatus access road, fire flow requirements, and the distance from any point on the street or road frontage to a hydrant.
3. The development is not located in a wildland-urban interface area as defined in the International Wildland-Urban Interface Code.

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

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-10

Code Section: 503.2.1 Dimensions

Modification:

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

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 05	503.2.1
IFC 2015	IFC 2015 04	503.2.1
IFC 2012	IFC 2012 04	503.2.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-11

Code Section: 507.1 Required water supply

Modification:

**507.1 Required water supply.** An approved water supply capable of supplying the required fire flow for fire protection shall be provided to premises on which facilities, buildings or portions of buildings are hereafter constructed or moved into or within the jurisdiction to meet the necessary fire flow as determined by the fire code official. Where public water supply is inadequate or not available, an approved alternative water source meeting the fire flow requirements shall be provided. Fire flow performance tests shall be witnessed by the fire official or representative prior to final approval.

**Exception.** One- and two-family dwellings, including attached or detached accessory structures.

Proponent: Charleston Fire Department

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 06	507.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-12

Code Section: 507.5.1 Where Required

Modification:

**507.5.1 Where required.** Where a portion of the facility or building hereafter constructed or moved into or within the jurisdiction is more than ~~400 feet (122 m)~~ 500 feet (152m) from a hydrant on a fire apparatus access road, as measured by an approved route around the exterior of the facility or building, on-site fire hydrants and mains shall be provided where required by the fire code official.

**Location.** The location and number of hydrants shall be designated by the fire official, but in no case shall the distance between installed fire hydrants exceed 1000 feet (305m). Fire hydrants shall be located within 500 feet (152m) of all fire fighter access points when measured along the normal routes of fire department vehicle access which conforms to the requirements of Section 503. No point of the exterior of a building shall be located more than 500 feet (152m) from a hydrant accessible to fire department vehicles as provided in Section 503.

**Exceptions:**

1. For Group R-3 and Group U occupancies, the distance requirement shall be 600 feet (183 m).
2. For buildings equipped throughout with an approved automatic sprinkler system installed in accordance with Section 903.3.1.1 or 903.3.1.2, the distance requirement shall be 600 feet (183 m).

Proponent: Charleston Fire Department

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 07	507.5.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-13

Code Section: 507.5.1.1 Hydrant for standpipe systems

Modification:

**507.5.1.1 Hydrant for standpipe systems.** Buildings equipped with a standpipe or fire sprinkler system installed in accordance with Section 903 or 905 shall have a fire hydrant within 100 feet (30 480 mm) of the fire department connections.

**Exception:** The distance shall be permitted to exceed 100 feet (30 480 mm) where *approved* by the *fire code official*.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation  
South Carolina Building Codes Council  
2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-14

Code Section: 507.5.4 Obstruction

Modification:

**507.5.4 Obstruction.** Unobstructed access to fire hydrants shall be maintained at all times. The fire department shall not be deterred or hindered from gaining immediate access to fire protection equipment or fire hydrants. No parking shall be allowed within 15 feet of a fire hydrant.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-16

Code Section: 607.1 General

Modification:

**607.1 General.** Storage of cooking oil (grease) in commercial cooking operations utilizing above-ground tanks with a capacity greater than 60 gal (227 L) installed within a building shall comply with Sections 607.2 through 607.7 and NFPA 30. For purposes of this section, cooking oil shall be classified as a Class IIIB liquid unless otherwise determined by testing. These tanks shall have the contents identified as outlined in Section 5703.5.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-19

Code Section: 901.6.3 Records

Modification:

**901.6.3 Records.** Records of all system inspections, tests and maintenance required by the referenced standards shall be maintained. Copies of the inspection reports shall be sent to the local jurisdiction by the servicing vendor as prescribed by the fire code official.

Proponent: Charleston Fire Department

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 08	901.6.3



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-22

Code Section: 907.6.5 Access

Modification:

**907.6.5 Access.** Access shall be provided to each fire alarm device and notification appliance for periodic inspection, maintenance and testing. Fire alarm notification devices shall be unobstructed and visible at all times.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-24

Code Section: 1010.2.14 Controlled egress doors in Groups I-1 and I-2

Modification:

**[BE] 1010.2.14 Controlled egress doors in Groups I-1, I-2 and I-4 (Adult Day Care occupancy only).** Electric locking systems, including electromechanical locking systems and electromagnetic locking systems, shall be permitted to be locked in the means of egress in Group I-1, I-2 and I-4 (Adult Day Care occupancy only) occupancies where the clinical needs of persons receiving care require their containment. Controlled egress doors shall be permitted in such occupancies where the building is equipped throughout with an *automatic sprinkler system* in accordance with Section 903.3.1.1 or an *approved* automatic smoke detection system installed in accordance with Section 907, provided that the doors are installed and operate in accordance with all of the following:

1. The door locks shall unlock on actuation of the automatic sprinkler system or automatic smoke detection system.
2. The door locks shall unlock on loss of power controlling the lock or lock mechanism.
3. The door locking system shall be installed to have the capability of being unlocked by a switch located at the fire command center, a nursing station or other approved location. The switch shall directly break power to the lock.
4. A building occupant shall not be required to pass through more than one door equipped with a controlled egress locking system before entering an exit.
5. The procedures for unlocking the doors shall be described and approved as part of the emergency planning and preparedness required by Chapter 4 of the International Fire Code.
6. All clinical staff shall have the keys, codes or other means necessary to operate the locking systems.
7. Emergency lighting shall be provided at the door.
8. The door locking system units shall be listed in accordance with UL 294.

**Exceptions:**

1. Items 1 through 4 shall not apply to doors to areas occupied by persons who, because of clinical needs, require restraint or containment as part of the function of a psychiatric or cognitive treatment area.
2. Items 1 through 4 shall not apply to doors to areas where a listed egress control system is utilized to reduce the risk of child abduction from nursery and obstetric areas of a Group I-2 hospital.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-25

Code Section: 1016.2 Egress through intervening spaces

**Modification:**

**1016.2 Egress through intervening spaces.** Egress through intervening spaces shall comply with this section.

1. Exit access through an enclosed elevator lobby is permitted. Where access to two or more exits or exit access doorways is required in Section 1006.2.1, access to not less than one of the required exits shall be provided without travel through the enclosed elevator lobbies required by Section 3006 of the South Carolina Building Code. Where the path of exit access travel passes through an enclosed elevator lobby, the level of protection required for the enclosed elevator lobby is not required to be extended to the exit unless direct access to an exit is required by other sections of this code.
2. Egress from a room or space shall not pass through adjoining or intervening rooms or areas, except where such adjoining rooms or areas and the area served are accessory to one or the other, are not a Group H occupancy and provide a discernible path of egress travel to an exit.  
  
Exception: Means of egress are not prohibited through adjoining or intervening rooms or spaces in a Group H, S or F occupancy where the adjoining or intervening rooms or spaces are the same or a lesser hazard occupancy group.
3. An exit access shall not pass through a room that can be locked to prevent egress.
4. Means of egress from dwelling units or sleeping areas shall not lead through other sleeping areas, toilet rooms or bathrooms.  
  
Exception: Dwelling units or sleeping areas in R-1 and R-2 occupancies shall be permitted to egress through other sleeping areas serving adjoining rooms that are part of the same dwelling unit or guest room.
5. Egress shall not pass through kitchens, storage rooms, closets or spaces used for similar purposes.  
  
Exceptions:
  1. Means of egress are not prohibited through a kitchen area serving adjoining rooms constituting part of the same dwelling unit or sleeping unit.
  2. Means of egress are not prohibited through stockrooms in Group M occupancies where all of the following are met:
    - 2.1. The stock is of the same hazard classification as that found in the main retail area.
    - 2.2. Not more than 50 percent of the exit access is through the stockroom.
    - 2.3. The stockroom is not subject to locking from the egress side.
    - 2.4. There is a demarcated, minimum 44-inch-wide (1118 mm) aisle defined by ~~full- or partial-height fixed walls~~ a wall not less than 42 inches high or similar construction that will maintain the required width and lead directly from the retail area to the exit without obstructions.

Proponent: Charleston Fire Department

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 11	1016.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-31

Code Section: 2303.2.2 Testing

Modification:

**2303.2.2 Testing.** Emergency disconnect switches shall be tested annually by the responsible party to ensure proper operation; records of testing shall be maintained on site for inspection. Any switches determined to be faulty, the fuel pumps they serve shall be taken out of service until the emergency shutoff switch is placed back into service.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-33

Code Section: 2305.5 Fire extinguishers

Modification:

**2305.5 Fire extinguishers.** *Approved* portable fire extinguishers complying with Section 906 with a minimum rating of 2-A:20-B:C shall be provided and located such that an extinguisher is not more than ~~75 feet (22 860 mm)~~ 50 feet (15 240 mm) from pumps, dispensers or storage tank fill-pipe openings.

Proponent: Midlands Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-34

Code Section: 2307.4 Location of dispensing operations and equipment

**Modification:**

**2307.4 Location of dispensing operations and equipment.** The point of transfer for LP-gas dispensing operations shall be separated from buildings and other exposures in accordance with NFPA 58 Table 6.7.2.1 and IFC Section 2306.7, the following:

1. Not less than 25 feet (7620 mm) from buildings where the exterior wall is not part of a fire-resistance-rated assembly having a rating of 1 hour or greater.
2. Not less than 25 feet (7620 mm) from combustible overhangs on buildings, measured from a vertical line dropped from the face of the overhang at a point nearest the point of transfer.
3. Not less than 25 feet (7620 mm) from the lot line of property that can be built on.
4. Not less than 25 feet (7620 mm) from the centerline of the nearest mainline railroad track.
5. Not less than 10 feet (3048 mm) from public streets, highways, thoroughfares, sidewalks and driveways.
6. Not less than 10 feet (3048 mm) from buildings where the exterior wall is part of a fire-resistance-rated assembly having a rating of 1 hour or greater.

**Exception:** The point of transfer for LP-gas dispensing operations need not be separated from canopies that are constructed in accordance with the International Building Code and that provide weather protection for the dispensing equipment.

LP-Gas containers shall be located in accordance with Chapter 61. LP-gas storage and dispensing equipment shall be located outdoors and in accordance with Section 2306.7.

Proponent: South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 12	2307.4
IFC 2015	IFC 2015 09	2307.4
IFC 2012	IFC 2012 09	2307.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-35

Code Section: 2307.7 Public fueling of motor vehicles

**Modification:**

**2307.7 Public fueling of motor vehicles.** Self-service LP-gas dispensing systems, including key, code and card lock dispensing systems, shall be limited to the filling of permanently mounted containers providing fuel to the LP-gas powered vehicle.

The requirements for self-service LP-gas dispensing systems shall be in accordance with the following:

1. The arrangement and operation of the transfer of product into a vehicle shall be in accordance with this section and Chapter 61.
2. The system shall be provided with an emergency shutoff switch located within 100 feet (30 480 mm) of, but not less than 20 feet (6096 mm) from, dispensers.
3. The owner of the LP-gas motor fuel-dispensing facility or the owner's designee shall provide for the safe operation of the system and the training of users.
4. The dispenser and hose-end valve shall release not more than 1/8 fluid ounce (4 cc) of liquid to the atmosphere upon breaking the connection with the fill valve on the vehicle.
5. Portable fire extinguishers shall be provided in accordance with Section 2305.5.
6. Warning signs shall be provided in accordance with Section 2305.6.
7. The area around the dispenser shall be maintained in accordance with Section 2305.7.

Proponent: South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 13	2307.7
IFC 2015	IFC 2015 11	2307.7
IFC 2012	IFC 2012 11	2307.6



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-38

Code Section: 6101.1 Scope

Modification:

**6101.1 Scope.** Storage, handling and transportation of liquefied petroleum gas (LP-gas) and the installation of LP-gas equipment pertinent to systems for such uses shall comply with this chapter and NFPA 58. Properties of LP-gases shall be determined in accordance with ~~Appendix~~ Annex B of NFPA 58.

Proponent: South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 14	6101.1
IFC 2015	IFC 2015 12	6101.1
IFC 2012	IFC 2012 12	6101.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-41

Code Section: 6106.1 Attendants

Modification:

**6106.1 Attendants.** Dispensing of LP-gas shall be performed by a qualified attendant that meets the requirements of this section and NFPA 58 Section 4.4.

Proponent: South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 17	6106.1
IFC 2015	IFC 2015 16	6106.1
IFC 2012	IFC 2012 16	6106.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-42

Code Section: 6107.4 Protecting containers from vehicles

Modification:

**6107.4 Protecting containers from vehicles.** Where exposed to vehicular damage due to proximity to alleys, driveways or parking areas, LP-gas containers, regulators and piping shall be protected in accordance with NFPA 58.

**Exception:** An alternative method may be used that meets the intent of this section with the approval of the AHJ.

Proponent: South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 18	6107.4
IFC 2015	IFC 2015 18	6107.4
IFC 2012	IFC 2012 18	6107.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-43

Code Section: 6109.13 Protection of containers

Modification:

**6109.13 Protection of containers.** LP-gas containers shall be stored within a suitable enclosure or otherwise protected against tampering. Vehicle impact protection shall be provided as required by ~~Section 6107.4.~~ the fire code official in accordance with Section 312 or NFPA 58 8.4.2.2.

**Exception:** Vehicle impact protection shall not be required for protection of LP-gas containers where the containers are kept in lockable, ventilated cabinets of metal construction.

Proponent: South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 20	6109.13
IFC 2015	IFC 2015 22	6109.13
IFC 2012	IFC 2012 22	6109.13



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-44

Code Section: 6110.1 Removed from service

Modification:

**6110.1 Removed from service Containers not connected for service at customer locations.** LP-gas containers at customers' locations that are not connected for service whose use has been discontinued shall comply with both all of the following:

1. — Be disconnected from appliance piping.
- 2.1. Have LP-gas container outlets, except relief valves, closed and or plugged or capped.
- 3.2. Be positioned with the relief valve in direct communication with the LP-gas container vapor space.

Proponent: SC Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 21	6110.1
IFC 2015	IFC 2015 23	6110.1
IFC 2012	IFC 2012 23	6110.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fire Code

Modification Index Number: IFC 2021-45

Code Section: 6111.2.1

Modification:

**6111.2.1 Near residential, educational and institutional occupancies and other high-risk areas.** LP-gas tank vehicles shall not be left unattended at any time on residential streets or within 500 feet (152 m) of a residential area, apartment or hotel complex, educational facility, hospital or care facility. Tank vehicles shall not be left unattended at any other place that would, in the opinion of the *fire code official*, pose an extreme life hazard.

Separation distance requirements may be reduced to not less than 50 feet as approved by the fire code official, based upon a completed fire safety analysis and consideration of special features such as topographical conditions, capacity of the LP-gas vehicle and the capabilities of the local fire department. The Office of the State Fire Marshal will provide an approved fire safety analysis to be utilized for this specific requirement.

Proponent: South Carolina Fire Marshal's Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFC 2018	IFC 2018 22	6111.2.1
IFC 2015	IFC 2015 24	6111.2.1
IFC 2012	IFC 2012 24	6111.2.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Plumbing Code

Modification Index Number: IPC 2021-01

Code Section: 202 General Definitions

Modification:

**DRINKING FOUNTAIN.** A plumbing fixture that is connected to the potable water distribution system and the drainage system. The fixture allows the user to obtain a drink directly from a stream of flowing water without the use of any accessories. Such fixtures can be separate from or integral to a bottle filling station.

Proponent: Carolinas AGC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Plumbing Code

Modification Index Number: IPC 2021-02

Code Section: 202 General Definitions

Modification:

**BOTTLE FILLING STATION.** A type of water dispenser that is connected to the potable water distribution system and the drainage system. The fixture is designed and intended for automatically or manually filling personal use drinking water bottles or containers not less than 10 inches (254 mm) in height and is in compliance with the Americans with Disabilities Act (42 U.S.C. § 12101 et seq.) Such fixtures can be separate from or integral to a drinking fountain and can incorporate a water filter and a cooling system for chilling the drinking water.

Proponent: Carolinas AGC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Plumbing Code

Modification Index Number: IPC 2021-03

Code Section: 202 General Definitions

Modification:

**WATER COOLER.** A drinking fountain or bottle filling station that incorporates a means of reducing the temperature of the water supplied to it from the potable water distribution system.

Proponent: Carolinas AGC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Plumbing Code

Modification Index Number: IPC 2021-04

Code Section: 202 General Definitions

Modification:

**WATER DISPENSER.** A plumbing fixture that is automatic or manually controlled by the user for the purpose of dispensing potable drinking water into a receptacle such as a cup, glass or bottle. Such fixture is connected to the potable water distribution system of the premises. This definition includes a freestanding apparatus for the same purpose that is not connected to the potable water distribution system and that is supplied with potable water from a container, bottle or reservoir.

Proponent: Carolinas AGC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Plumbing Code

Modification Index Number: IPC 2021-05

Code Section: Table 403.1 Minimum Number of Required Plumbing Fixtures

Modification:

Add column to table - BOTTLE FILLING STATION

Row 3 Educational, under Bottle Filling Station column. add: 1 per 200 with placement of 1 on each floor (or wing, or other building section) and 1 in school food service areas

*See Attachment*

Proponent: Carolinas AGC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		

**Table 403.1**  
**Minimum Number of Required Plumbing Fixtures<sup>a</sup> (See Sections 403.1.1 and 403.2)**

No.	Classification	Description	Water Closets (Urinals: See Section 424.2)		Lava- to-ries		Bathtubs/ Showers	Drinking Fountain (See Section 410)	Other	Bottle Filling Station
			M	F	M	F				
3	Educational	Educational Facilities	1 per 50		1 per 50		-	1 per 100	1 service sink	<u>1 per 200 with placement of 1 on each floor (or wing or other building section) and 1 in school food service areas.</u>



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Plumbing Code

Modification Index Number: IPC 2021-06

Code Section: 410.4 Substitution

Modification:

**410.4 Substitution.** Where restaurants provide drinking water in a container free of charge, drinking fountains shall not be required in those restaurants. In other *occupancies* where three or more drinking fountains are required, *water dispensers* shall be permitted to be substituted for not more than 50 percent of the required number of drinking fountains. In educational settings, 50 percent of the required number of drinking fountains must incorporate a bottle filling station.

Proponent: Carolinas AGC

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Mechanical Code

Modification Index Number: IMC 2021-01

Code Section: 504.9.2 Duct Installation

Modification:

**504.9.2 Duct installation.** Exhaust ducts shall be supported at intervals not to exceed 8 feet and within 16 inches of each side of a joint that is not installed in a vertical orientation, ~~4-foot (1219 mm) intervals and~~ secured in place, making rigid contact with the duct at not less than 4 equally spaced points or 2/3rds contact if strap is used. All brackets and strapping must be noncombustible. The insert end of the duct shall extend into the adjoining duct or fitting in the direction of airflow. ~~Ducts shall not be joined with screws or similar fasteners that protrude more than 1/8 inch (3.2 mm) into the inside of the duct. The overlap shall comply with Section 603.4.2. Ducts shall not be joined with screws or similar devices that protrude into the inside of the duct.~~ Exhaust ducts shall be sealed in accordance with Section 603.9.

Where dryer exhaust ducts are enclosed in wall or ceiling cavities, such cavities shall allow the installation of the duct without deformation. The duct work may be ovalized as long as it terminates in an approved duct box. Minor imperfections located on the duct, in areas other than along the seam, do not constitute a violation of this section.

Proponent: Building Official Association of South Carolina (BOASC)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IMC 2018	IMC 2018 01	504.8.2



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Mechanical Code

Modification Index Number: IMC 2021-02

Code Section: Table 1103.1 Refrigerant Classification Amount and OEL

Modification:

**Footnote:**  
 c. The ASHRAE Standard 34 flammability classification for this refrigerant is 2L, which is a subclass of Class 2.

Proponent: Air Conditioning, Heating, Refrigeration Institute (AHRI)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



South Carolina Department of Labor, Licensing and Regulation  
South Carolina Building Codes Council  
2021 Modification Index

Applicable Code: 2021 International Mechanical Code

Modification Index Number: IMC 2021-03

Code Section: 1104.3 System Application Requirements

Modification:

**1104.3.1 Air conditioning for human comfort.** High probability systems used for human comfort shall use Group A1 or A2L refrigerant. In other than industrial *occupancies* where the quantity in a single independent circuit does not exceed the amount in Table 1103.1, Group B1, B2 and B3 refrigerants shall not be used in high-probability systems for air conditioning for human comfort.

Proponent: Air Conditioning, Heating, Refrigeration Institute (AHRI)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Mechanical Code

Modification Index Number: IMC 2021-04

Code Section: Chapter 15 Referenced Standards

Modification:

<b>CSA</b>	
<u>C22.2 No. 60335-2-40 -2019</u>	<u>Household and Similar Electrical Appliances - Safety - Part 2_40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers - 3<sup>rd</sup> Edition</u> <u>908.1, 916.1, 918.2, 1101.2</u>
<b>UL</b>	
<u>60335-2-40-17 2019</u>	<u>Household and Similar Electrical Appliances - Safety - Part 2_40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers</u> <u>908.1, 916.1, 918.1, 918.2, 1101.2</u>

Proponent: Air Conditioning, Heating, Refrigeration Institute (AHRI)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fuel Gas Code

Modification Index Number: IFGC 2021-01

Code Section: 401.9 Identification

Modification:

**401.9 Identification.** Each length of pipe and tubing and each pipe fitting, utilized in a fuel gas system, shall bear the identification of the manufacturer.

**Exceptions:**

1. Steel pipe sections that are 2 feet (610 mm) and less in length and are cut from longer sections of pipe.
2. Steel pipe fittings 2 inches and less in size.
3. Where identification is provided on the product packaging or crating.
4. Where other *approved* documentation is provided.

*Section deleted without substitution.*

Proponent: South Carolina Propane Gas Association (SCPGA)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFGC 2018	IFGC 2018 01	401.9
IFGC 2015	IFGC 2015 01	401.9
IFGC 2012	IFGC 2012 01	401.9



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fuel Gas Code

Modification Index Number: IFGC 2021-02

Code Section: 401.10 Third-Party Testing and Certification

Modification:

**401.10 Piping materials standards.** Piping, tubing and fittings shall be manufactured to the applicable referenced standards, specifications and performance criteria listed in Section 403 and shall be identified in accordance with Section 401.9. **Third-party testing and certification.** All piping, tubing and fittings shall comply with the applicable referenced standards, specifications and performance criteria of this code, including Section 403 of the South Carolina Fuel Gas Code and corresponding sections.

Proponent: South Carolina Propane Gas Association (SCPGA)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFGC 2018	IFGC 2018 02	401.10
IFGC 2015	IFGC 2015 02	401.10
IFGC 2012	IFGC 2012 02	401.10



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fuel Gas Code

Modification Index Number: IFGC 2021-03

Code Section: 412.4 Listed Equipment

Modification:

**[F] 412.4 Listed equipment.** Hoses, hose connections, vehicle fuel connections, dispensers, LP-gas pumps and electrical equipment used for LP-gas shall comply with the requirements of NFPA 58 *be listed*.

Proponent: South Carolina Propane Gas Association (SCPGA)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFGC 2018	IFGC 2018 03	412.4
IFGC 2015	IFGC 2015 03	412.4
IFGC 2012	IFGC 2012 03	412.4



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fuel Gas Code

Modification Index Number: IFGC 2021-04

Code Section: 412.6 Location

**Modification:**

**[F] 412.6 Location.** The point of transfer for LP-gas dispensing operations shall be separated from buildings and other exposures in accordance with the following:

1. Not less than 25 feet (7620 mm) from buildings where the exterior wall is not part of a fire-resistance-rated assembly having a rating of 1 hour or greater.
2. Not less than 25 feet (7620 mm) from combustible overhangs on buildings, measured from a vertical line dropped from the face of the overhang at a point nearest the point of transfer.
3. Not less than 25 feet (7620 mm) from the lot line of property that can be built upon.
4. Not less than 25 feet (7620 mm) from the centerline of the nearest mainline railroad track.
5. Not less than 10 feet (3048 mm) from public streets, highways, thoroughfares, sidewalks and driveways.
6. Not less than 10 feet (3048 mm) from buildings where the exterior wall is part of a fire-resistance-rated assembly having a rating of 1 hour or greater.

In addition to the fuel dispensing requirements of the South Carolina Fire Code, the point of transfer for dispensing operations shall be 25 feet (7620 mm) or more from buildings having combustible exterior wall surfaces, buildings having noncombustible exterior wall surfaces that are not part of a 1-hour fire-resistance-rated assembly or buildings having combustible overhangs, property which could be built on, and railroads; and at least 10 feet (3048 mm) from public streets or sidewalks and buildings having noncombustible exterior wall surfaces that are part of a fire-resistance-rated assembly having a rating of 1 hour or more; and 5 feet from driveways.

**Exceptions:**

1. The point of transfer for LP-gas dispensing operations need not be separated from canopies providing weather protection for the dispensing equipment that are constructed in accordance with the International Building Code and that provide weather protection for the dispensing equipment. Liquefied petroleum gas containers shall be located in accordance with the International Fire Code.
2. The separation from driveways is not required where the driveway serves the vehicle fuel dispenser.

Liquefied petroleum gas containers shall be located in accordance with the International Fire Code. Liquefied petroleum gas storage and dispensing equipment shall be located outdoors and in accordance with the International South Carolina Fire Code.

Proponent: South Carolina Propane Gas Association (SCPGA)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFGC 2018	IFGC 2018 04	412.6
IFGC 2015	IFGC 2015 04	412.6
IFGC 2012	IFGC 2012 04	412.6



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fuel Gas Code

Modification Index Number: IFGC 2021-05

Code Section: 412.8.3 Vehicle Impact Protection

Modification:

**[F] 412.8.3 Vehicle impact protection.** Where installed within 10 feet (3048 mm) of vehicle traffic, LP-gas storage containers, pumps and dispensers shall be protected in accordance with Section 2307.5, Item 2 of the International Fire Code.

**Exception:** An alternative method may be used that meets the intent of this section with the approval of the AHJ.

Proponent: South Carolina Propane Gas Association

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFGC 2018	IFGC 2018 06	412.8.3
IFGC 2015	IFGC 2015 05	412.8.3
IFGC 2012	IFGC 2012 05	412.7.3



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fuel Gas Code

Modification Index Number: IFGC 2021-06

Code Section: 412.10 Private fueling of motor vehicles

Modification:

**412.10 Private fueling of motor vehicles.** Self-service LP-gas dispensing systems, including key, code and card lock dispensing systems, shall not be open to the public. In addition to the requirements of the South Carolina Fire Code, self-service LP-gas dispensing systems shall be provided with an emergency shutoff switch located within 100 feet (30 480 mm) of, but not less than 20 feet (6096 mm) from, dispensers and the owner of the dispensing facility shall ensure the safe operation of the system and the training of users.

Proponent: South Carolina Propane Gas Association (SCPGA)

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFGC 2018	IFGC 2018 07	412.10
IFGC 2015	IFGC 2015 06	412.10
IFGC 2012	IFGC 2012 06	412.8



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2021 International Fuel Gas Code

Modification Index Number: IFGC 2021-07

Code Section: 505.1.1 Commercial cooking appliances vented by exhaust hoods

Modification:

**505.1.1 Commercial cooking appliances vented by exhaust hoods.** Where commercial cooking appliances are vented by means of the Type I or II kitchen exhaust hood system that serves such appliances, the exhaust system shall be fan powered and the appliances shall be interlocked with the exhaust hood system to prevent appliance operation when the exhaust hood system is not operating. ~~The method of interlock between the exhaust hood system and the appliances equipped with standing pilot burner ignition systems shall not cause such pilots to be extinguished.~~ Where a solenoid valve is installed in the gas piping as part of an interlock system, gas piping shall not be installed to bypass such valve. Dampers shall not be installed in the exhaust system.

**Exception:** An interlock between the cooking appliance(s) and the exhaust hood system shall not be required for appliances that are of the manually operated type and are factory equipped with standing pilot burner ignition systems. ~~where heat sensors or other approved methods automatically activate the exhaust hood system when cooking operations occur.~~

Proponent: Piedmont Natural Gas

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
IFGC 2018	IFGC 2018 08	505.1.1
IFGC 2015	IFGC 2015 07	505.1.1
IFGC 2012	IFGC 2012 07	505.1.1
IFGC 2006	IFGC 2006 01	505.1.1
IFGC 2003 & 2000	IFGC 2003 02,IFGC 2000 02	505.1.1



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2020 National Electrical Code

Modification Index Number: NEC 2020-03

Code Section: 210.8(A)(5) Dwelling Units

**Modification:**

**210.8(A) Dwelling Units.** All 125-volt ~~through 250-volt~~ receptacles installed in the locations specified in 210.8(A)(1) through (A)(11) and supplied by single-phase branch circuits rated 150 volts or less to ground shall have ground-fault circuit-interrupter protection for personnel.

- (1) Bathrooms.
- (2) Garages and also accessory buildings that have a floor located at or below grade level not intended as habitable rooms and limited to storage areas, work areas, and areas of similar use.
- (3) Outdoors.  
*Exception to (3): Receptacles that are not readily accessible and are supplied by a branch circuit dedicated to electric snow-melting, deicing, or pipeline and vessel heating equipment shall be permitted to be installed in accordance with 426.28 or 427.22, as applicable.*
- (4) Crawl spaces - at or below grade level.
- (5) Basements  
*Exception No. 1 to (5): A receptacle supplying only a permanently installed fire alarm or burglar alarm system shall not be required to have ground-fault circuit-interrupter protection.*  
*Exception No. 2 to (5): Receptacles in walk-out basements are excluded from this requirement.*

Receptacles installed under the exception to 210.8(A)(5) shall not be considered as meeting the requirements of 210.52(G).

- (6) Kitchens - where the receptacles are installed to serve the countertop surfaces.
- (7) Sinks - where receptacles are installed within 1.8 m (6 ft) from the top inside edge of the bowl of the sink.
- (8) Boathouses.
- (9) Bathtubs or shower stalls - where receptacles are installed within 1.8 m (6 ft) of the outside edge of the bathtub or shower stall.
- (10) Laundry areas.  
*Exception to (1) through (3), (5) through (8), and (10): Listed locking support and mounting receptacles utilized in combination with compatible attachment fittings installed for the purpose of serving a ceiling luminaire or ceiling fan shall not be required to be ground-fault circuit-interrupter protected. If a general-purpose convenience receptacle is integral to the ceiling luminaire or ceiling fan, GFCI protection shall be provided.*
- (11) Indoor damp and wet locations.

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2020 National Electrical Code

Modification Index Number: NEC 2020-04

Code Section: 210.8(F) Outdoor Outlets

Modification:

**210.8(F) Outdoor Outlets.** All outdoor outlets for dwellings, other than those covered in 210.8(A)(3), Exception to (3), that are supplied by single-phase branch circuits rated 150 volts to ground or less, 50 amperes or less, shall have ground-fault circuit-interrupter protection for personnel.

*Exception: Ground-fault circuit-interrupter protection shall not be required on lighting outlets other than those covered in 210.8(C).*

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2020 National Electrical Code

Modification Index Number: NEC 2020-05

Code Section: 210.12(A) Dwelling Units

Modification:

**210.12(A) Dwelling Units.** All 120\_volt, single\_phase, 15\_ and 20\_ ampere branch circuits supplying outlets or devices installed in dwelling unit ~~kitchens~~, family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreation rooms, closets, hallways, ~~laundry areas~~, or similar rooms or areas shall be protected by any of the means described in 210.12(A)(1) through (6):

*Items (1) through (6) and Exception to remain as written.*

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**South Carolina Department of Labor, Licensing and Regulation**  
**South Carolina Building Codes Council**  
**2021 Modification Index**

Applicable Code: 2020 National Electrical Code

Modification Index Number: NEC 2020-06

Code Section: 230.67 Surge Protection

Modification:

**230.67 Surge Protection.**

~~(A) Surge-Protective Device.~~ All services supplying dwelling units shall be provided with a surge-protective device (SPD).

~~(B) Location.~~ The SPD shall be an integral part of the service equipment or shall be located immediately adjacent thereto.

*Exception: The SPD shall not be required to be located in the service equipment as required in (B) if located at each next level distribution equipment downstream toward the load.*

~~(C) Type.~~ The SPD shall be a Type 1 or Type 2 SPD.

~~(D) Replacement.~~ Where service equipment is replaced, all of the requirements of this sections shall apply.

*This section is deleted without substitution.*

Proponent: Home Builders Association of South Carolina

Previous Code Cycles	Previous Modification Index Number	Previous Code Section
N/A		



**Agenda Briefing**

<b>Prepared by:</b>	Shirani Fuller, PE	<b>Title:</b>	County Engineer
<b>Department:</b>	Public Works	<b>Division:</b>	Engineering
<b>Date Prepared:</b>	September 13, 2022	<b>Meeting Date:</b>	October 25, 2022
<b>Legal Review</b>	Patrick Wright via email	<b>Date:</b>	October 5, 2022
<b>Budget Review</b>	Abhijit Deshpande via email	<b>Date:</b>	October 7, 2022
<b>Finance Review</b>	Stacey Hamm via email	<b>Date:</b>	October 5, 2022
<b>Approved for consideration:</b>	Assistant County Administrator	John M. Thompson, Ph.D., MBA, CPM, SCEM	
<b>Meeting/Committee</b>	Development & Services		
<b>Subject</b>	Comprehensive Transportation Improvement Plan (CTIP) budget and proposed projects for Fiscal Year 2023 (FY-23)		

**RECOMMENDED/REQUESTED ACTION:**

Staff recommends that County Council approve the Comprehensive Transportation Improvement Plan (CTIP), the proposed budgets, and the proposed projects for Fiscal Year 2023.

Request for Council Reconsideration:  Yes

**FIDUCIARY:**

Are funds allocated in the department’s current fiscal year budget?	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
If not, is a budget amendment necessary?	<input type="checkbox"/>	Yes	<input type="checkbox"/>	No

**ADDITIONAL FISCAL/BUDGETARY MATTERS TO CONSIDER:**

The projects will be funded by the approved Department of Public Works (DPW) Capital Road Maintenance budget. Applicable projects that may be funded by County Transportation Committee (CTC) grants will be removed from the Road Maintenance budget. In the event that additional funding becomes available, DPW staff will return to Council to expand the list of projects to closely match with the value funded by the CTC. There should be no fiscal impact in excess of Richland County’s existing budget.

*Applicable department/grant key and object codes:*

**OFFICE OF PROCUREMENT & CONTRACTING FEEDBACK:**

Not applicable.

**COUNTY ATTORNEY’S OFFICE FEEDBACK/POSSIBLE AREA(S) OF LEGAL EXPOSURE:**

There are no legal concerns regarding this matter.

**REGULATORY COMPLIANCE:**

The preparation and submission of the annual CTIP is in accordance with Chapter 21 of the Richland County Code of Ordinances.

**MOTION OF ORIGIN:**

There is no associated Council motion of origin.

Council Member	
Meeting	
Date	

**STRATEGIC & GENERATIVE DISCUSSION:**

This is the third annual Comprehensive Transportation Improvement Plan (CTIP) created by the Richland County Department of Public Works (DPW) staff. This plan was first prepared and presented to Council for approval in 2020. Our purpose remains unchanged: to improve the process of restoring and preserving the County Road Maintenance System (CRMS) using analytical methods. DPW completed a pavement management study in 2021 to update the Pavement Condition Index (PCI) values for all County roads. Automated inspection equipment including using high resolution video and laser sensors were used to measure common pavement distresses and then correlate them to a PCI value. The recent study was used to create this year’s resurfacing and preservation list with updated pavement conditions.

Funding remains the limited resource in the maintenance and improvement of County roads. Approval of the CTIP provides County staff the ability to seek outside funding sources such as "C" Funds which is an essential source of funding for the County's transportation infrastructure.

The Transportation Penny Program operates in conjunction with DPW adding to the miles of roadway replaced and preserved each year in Richland County.

**ADDITIONAL COMMENTS FOR CONSIDERATION:**

None.

**ATTACHMENTS:**

1. Fiscal Year 2023 (FY-23) Comprehensive Transportation Improvement Plan (CTIP)



County Road Maintenance System (CRMS)

Fiscal Year 2023 (FY-23) Annual Comprehensive Transportation Improvement Program (CTIP)

Updated: August 29, 2022

References: (a) *Richland County Code of Ordinances*, Chapter 21  
(b) Richland County Department of Public Works County Road Maintenance System Management Standard Operating Procedures, June 30, 2020

Enclosures: (1) RDM Maintenance Area road type / mileage breakdown  
(2) County Council District road type / mileage breakdown  
(3) IGA road type / small municipality / mileage breakdown  
(4) Bridges / type / location  
(5) Rail Crossings / type / location  
(6) Traffic / crossing lighted signals  
(7) Sidewalks

Section 1 – Introduction:

The Department of Public Works has completed its second year of a coordinated effort to account for, document, maintain, and improve the Richland County Road Maintenance System (CRMS). Last fiscal year the Department of Public Works produced its first Annual Roads Report detailing the accomplishments of Roads and Drainage, Engineering, and Transportation Departments efforts to improve assets in the CRMS during the 2021 fiscal year.

The Department used its second Pavement Management Study (PMS) to assess the condition of all County-maintained paved roads to develop this year's Comprehensive Transportation Improvement Plan.

The Department's Capital Improvement Projects (CIP) in FY22 were funded strictly through grants from the County Transportation Committee due to the Road Maintenance Fund for capital projects being on hold. We expect to see resolution on this issue during the 2023 fiscal year so that we can better serve the residents of Richland County.

## Section 2 – System Description:

The Richland County Road Maintenance System (CRMS) is composed of road and road-related infrastructure that is, by assigned mission, or intergovernmental agreement (IGA), owned, and / or maintained by the Department of Public Works (DPW). Such infrastructure is, in some way, available for public use and represents a variety of levels of development, design, and construction source.

## Section 3 – System Data:

<input type="checkbox"/> Road mileage (unpaved – Prescriptive Easement)	157 miles
<input type="checkbox"/> Road mileage (unpaved – Right-of-Way)	46 miles
<input type="checkbox"/> Road mileage (paved)	633 miles
<input type="checkbox"/> Road mileage (paved – approximate incoming ROW)	6 miles
<input type="checkbox"/> RDM Maintenance Area breakdown	See Enclosure (1)
<input type="checkbox"/> County Council District breakdown	See Enclosure (2)
<input type="checkbox"/> IGA road mileage (by surface type / by small municipality)	See Enclosure (3)
<input type="checkbox"/> Bridges (by type and location)	See Enclosure (4)
<input type="checkbox"/> Rail Crossings	See Enclosure (5)
<input type="checkbox"/> Traffic and crossing lighted signals	See Enclosure (6)
<input type="checkbox"/> Sidewalk mileage	See Enclosure (7)

## Section 4 – Programs / Functions:

### **Department of Public Works**

#### **Roads & Drainage Maintenance (RDM)**

- Citizen Service Request (CSR) response / Corrective maintenance (Level of Service - LOS) – CSRs are generated from services requested through County Ombudsman staff. Responsibilities include receiving and responding to requests for service and other related inquiries from County residents. Typical level of activity is 6,000 CSRs received annually (500 per month). The typical backlog of pending CSRs, which varies by season, weather events, and other factors beyond departmental control, is usually 100 or fewer.
- Emergency response (LOS) – Requests of an emergent nature include: buried drainage pipe failure / cave in, downed STOP signs, animal carcasses within CRMS right-of-way and easements, potholes, leaning signs, manhole lids missing or askew, excess sand or grit on a paved road, tree hazards and downed trees in the road. These must be assigned immediately, the hazard mitigated as soon as possible, and all work completed within hours or days.

- Force Account (“in-house” staff and equipment) Projects (LOS) – Sometimes roads and drainage infrastructure deficiencies require more than routine maintenance. Multiple drainage pipe joint failures, undersized drainage pipes, failed drainage structures, and outdated infrastructure may require a level of engineering analysis and construction effort that exceeds basic levels of maintenance. The County Engineering and Stormwater Management Division work in close cooperation with the Projects Section of the Roads & Drainage Maintenance Division to design, manage, and construct smaller scale projects that support the CRMS. There is typically a backlog of eight projects of varying sizes and scopes.
- Preventive maintenance (LOS) – Maximize preventive maintenance (PM) of all types based on observations by employees in the field in order to ensure properly maintained infrastructure and reduce the need for CSRs.
- Sign maintenance (LOS) – Installation, maintenance and repair of street name signs throughout the unincorporated County and IGA municipalities for all public and private roads and streets. Installation, maintenance and repair of directional and warning signs within the CRMS. Because of their vital nature, sign-related requests are assigned a high priority.
- Street sweeping (LOS) – Deploy the street sweeper for the removal of grit, sediment, and debris from the CRMS, County-paved parking lots, and the Jim Hamilton – LB Owens Airport (CUB) pavement in order to preserve pavement, prevent debris from entering the drainage system, improve appearance, and control foreign object debris. Achieve an employment goal of 40% (780 hours of operation over a 52-week period). Note: A second street sweeper was added to the RDM Fleet during FY-22 in a joint effort with the Stormwater Management Division.
- Vector truck services (LOS) – Deploy the two Vector trucks to ensure that the drainage system, which supports the CRMS and area drainage, is free of blockages and debris. Priority of employment is: 1) Response to CSRs, 2) Preventive Maintenance (PM), and 3) neighborhood drainage system maintenance as identified by the Stormwater Management Division. Achieve an employment goal of 40% (780 hours of operation per truck over a 52-week period).

### **Engineering (EGR)**

- County Transportation Committee (CTC) – The Department of Public Works acts as the lead agency to coordinate with the County Transportation Committee (CTC). The CTC provides “C” Fund Grants for CRMS transportation projects to include:
    - Resurfacing
    - Sidewalk installation
    - Dirt road paving
    - Other transportation improvements
- See the FY-23 Capital Improvement Plan (CIP) in Section 7 for specific projects in progress or planned for future construction. The Richland County liaison to the CTC is the County Engineer.

- Pavement marking maintenance (LOS) – The Department of Public Works maintains a limited inventory of pavement markings throughout the County on some CRMS paved roads that meet the criteria for such markings. One Stop service requests will be investigated by Engineering Division staff to evaluate the functionality and standard compliance along with condition and serviceability. Markings in need of installation, repair or replacement will be added to the annual Pavement Marking Maintenance List for repair or replacement by the on-call service contractor. One Stop citizen notification and update shall occur per Ombudsman policy and procedure. The current annual budget is \$20,000.
- Signal maintenance (LOS) – The Department of Public Works maintains an inventory of traffic signals and flashing school zone lights. Both systems are managed by the Engineering Division staff under the direction and supervision of the County Engineer; once notified, Engineering will investigate any device issues (alignment, system failures, light outage and damage) that may affect traffic safety. The on-call maintenance contractor shall be available when required to make immediate repairs. The contractor is also responsible for installing of overhead road signage at intersections as directed by the County. Renewal of contracts and maintenance budgets is required and must be updated on an as-needed basis. The current annual budget is \$20,000.
- Traffic calming – The Department of Public Works installs speed humps on paved roads within the CRMS and SCDOT-maintained public roads. The installation of traffic calming devices shall be considered only when it has been determined by Engineering Division staff that the roadway meets all criteria and after a petition and supporting documentation have been submitted for review. A citizen Point of Contact (POC) shall be assigned to represent the neighborhood or subject street. The POC must be willing to work with DPW staff throughout the traffic calming device request process. Upon receiving the request, DPW staff will perform a review of the subject street to ensure the street meets all criteria referenced in the traffic calming warrants. The Department performs traffic studies and installs approximately 10 speed humps per year.
- Unpaved road dust suppression (LOS) – The Department of Public Works maintains an inventory of approximately 200 miles of unpaved roads. Application of calcium chloride to these roads for dust suppression reduces suspended dust particles that affect traffic safety and property. An annual list of roads is developed through the Engineering Division and the Roads & Drainage Maintenance Division. These roads are sprayed with one application of calcium chloride by a contracted road treatment service. The current annual budget is \$90,000. Due to recent price inflation, this treated approximately 31 miles of unpaved roads in FY22 (15% of the unpaved portion of the CRMS).

### **Special Services (SS)**

- Roadside Litter Pickup (LOS) – The Special Services Division employs inmate labor work crews to police public road right-of-way to include the CRMS and SCDOT-maintained roads. After a service interruption due to the COVID-19 pandemic, the inmate labor availability has generally been restored with only brief interruptions. However, roadside litter pickups during FY-22 were less reliable than in previous years.

## Other County Departments:

### Transportation Penny Department

The Transportation Penny Tax Program, which was approved by the residents of Richland County in 2012, provides funding for a wide range of transportation improvement projects throughout the County. The following projects are anticipated for completion during FY-23:

#### Dirt Road Paving:

Road Name	District	Linear Miles	Dept
Summer Haven Dr, Phase 2	1	0.09	Transportation
Vallenga Dr	9	0.32	Transportation
Cornell Adams Run	11	0.47	Transportation

#### Road Resurfacing:

Road Name	District	Linear Miles	Dept
Bamboo Grove Ct	1	0.10	Transportation
Charlwood Ct	1	0.03	Transportation
Chatteris Rd	1	0.08	Transportation
Cockspur Cir	1	0.09	Transportation
Crayford Rd	1	0.17	Transportation
Deer Tract Dr	1	0.52	Transportation
Doncaster Ct	1	0.04	Transportation
E Creek Ct	1	0.16	Transportation
Freestone Dr	1	0.06	Transportation
Hawks Ridge Ct	1	0.06	Transportation
Hever Ct	1	0.02	Transportation
Jarrold Ct	1	0.05	Transportation
Jim Koon Rd	1	0.12	Transportation
Kirton Ct	1	0.03	Transportation
Rock Hampton Rd	1	0.22	Transportation
Rushing Wind Dr	1	0.37	Transportation
Stonewall Ct	1	0.12	Transportation
Stoney Point Ln	1	0.35	Transportation
Tapp Pt	1	0.12	Transportation
Timberlake Ct	1	0.01	Transportation
Top Flight Ct	1	0.10	Transportation
Treyburn Rd	1	0.11	Transportation
Wenlock Cir	1	0.19	Transportation

Woodglen Ln	1	0.08	Transportation
Woodhouse Ct	1	0.05	Transportation
Chillingham Rd	1	0.23	Transportation
Harleston Rd	1	0.14	Transportation
Signal Ln	1	0.21	Transportation
Silver Lake Cir	1	0.34	Transportation
Arbor Oaks Ct	2	0.04	Transportation
Cape Flattery Ct	2	0.12	Transportation
Hunter Hill Rd	2	0.68	Transportation
Lakewood Cir	2	0.15	Transportation
S Mercer Ct	2	0.03	Transportation
Nevamar Dr	3	0.11	Transportation
Newcastle Dr	3	0.26	Transportation
North Hunters Ct	3	0.06	Transportation
Saxonbury Dr	3	0.06	Transportation
Whitmell Ave	3	0.13	Transportation
S Hunters Ct	3	0.05	Transportation
Alcott Dr	4	0.07	Transportation
Briar Ln	6	0.07	Transportation
Beaver Creek Cir	7	0.02	Transportation
Bedford Dr	7	0.04	Transportation
Bennie Dr	7	0.05	Transportation
Cordova Dr	7	0.17	Transportation
Crooked Stick Ct	7	0.04	Transportation
Ellafair Ln	7	0.05	Transportation
Lee Ridge Ct	7	0.25	Transportation
Pelican Cir	7	0.12	Transportation
Springcrest Dr	7	0.14	Transportation
Sunmeadow Dr	7	0.10	Transportation
Harrington Ct	8	0.12	Transportation
Auburncrest Ct	8	0.03	Transportation
Berry Ridge Cir	8	0.35	Transportation
Brookmist	8	0.21	Transportation
Cambridge Oaks Ct	8	0.03	Transportation
Cambridge Oaks Dr	8	0.40	Transportation
Cobblestone Ct	8	0.02	Transportation
Dovecreek	8	0.31	Transportation
Innis Ct	8	0.05	Transportation
Ridge Pond Dr	8	0.10	Transportation
Woodbranch Rd	8	0.15	Transportation
Sesqui Trl	9	0.15	Transportation



Sesqui Trl	9	0.09	Transportation
Brassie Ct	9	0.10	Transportation
Hunt Cup Ln	9	0.05	Transportation
Old Still Rd W	9	0.20	Transportation
Shallow Brook Dr	9	0.66	Transportation
Walden Oak Ct	9	0.03	Transportation
Waterton Way	9	0.14	Transportation
Acme St	10	0.12	Transportation
Carlow Dr	11	0.19	Transportation
Flowerwood Ct	11	0.06	Transportation
Pisgah Dr	11	0.10	Transportation
Saxon Shore Rd	11	0.15	Transportation

Section 5 – Resources within the Department of Public Works:

- Road Maintenance FY-22 Fund Balance(preliminary) \$12,045,868
- RDM FY-23 Operating Budget \$8,083,166
- “C” Fund Forecasted Appointment \$5,286,900

Section 6 – Goals:

**DPW**

- Funding source – Work with County Council and County Administration to ensure an adequate, reliable, steady, and uninterrupted funding source for Roads and Drainage Maintenance operations and improvement projects in light of the recent state Supreme Court decision and subsequent lawsuit against the County.
- Interdepartmental coordination – Improve interdepartmental coordination with other stakeholders, especially the Transportation Penny staff, to ensure that all projects are coordinated, mutually supporting, and maintain or enhance area drainage.
- Interdepartmental coordination – Improve interdepartmental coordination with other stakeholders, especially the Community Planning and Development Department, to ensure that updated development standards are properly applied and newly developed infrastructure is of sufficient quality.

**RDM**

- Process review – Continue working with the staff of the Information Technology (IT) Department, fully develop and implement the reporting component of the Work Order System (WOS) in order to establish performance benchmarks and better analyze activity, service, and productivity.



- Personnel management – Emphasize the prompt hiring of qualified applicants to fill vacancies as they occur. Develop a Master Equipment Operator to promote training, professional development, and skill quality of Equipment Operators.
- Facility Improvement – Continue to develop the Blythewood area work camp that services the Northern portion of the County.
- Purchase replacement equipment needed to bring the fleet up to a higher level of service. Equipment to include a vactor truck, two dump trucks, two mini-excavators, and two skid steer loaders.

#### **EGR**

- Asset Inventory –Identify a system for managing County infrastructure with the ability to update information on assets and produced reports to assist with decision making.
- Develop and implement an inspection and maintenance schedule for sidewalks and Shared Use Paths (SUP) in the CRMS.

#### **SS**

- Develop a schedule and perform recurring, adequate vegetation maintenance for all sidewalks and SUPs in the CRMS in order to prevent slip and trip hazards and provide attractive community aesthetics.



Section 7 – Capital Improvement Plan (CIP):

Item Description	Proposed Funding Source	FY21	Biennium		Biennium		Total
			FY22	FY23	FY24	FY25	
Unpaved Roadway Repair-Design	RMF	\$100,000	\$100,000	\$100,000	\$100,000	\$100,000	\$500,000
Unpaved Roadway Repair-Construction	RMF	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$2,000,000
Sidewalk Capital Improvement	RMF	\$350,000					\$350,000
Miscellaneous Road Improvements	RMF	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Road Resurfacing	RMF		\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$4,000,000
Pavement Preservation	"C" Funds	\$500,000	\$500,000	\$500,000	\$500,000	\$500,000	\$2,500,000
Resurfacing Roads	"C" Funds	\$1,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$9,000,000
New Sidewalks	"C" Funds	\$1,000,000	\$500,000	\$500,000	\$500,000	\$500,000	\$3,000,000
New Sidewalk-Design	TAP		\$100,000	\$50,000	\$100,000	\$50,000	\$300,000
New Sidewalk-Construction	TAP			\$1,000,000		\$1,000,000	\$2,000,000
<b>Totals</b>		<b>\$5,000,000</b>	<b>\$4,650,000</b>	<b>\$5,600,000</b>	<b>\$4,650,000</b>	<b>\$5,600,000</b>	<b>\$25,500,000</b>

Note 1: Road Maintenance Fund (RMF) / Transportation Assistance Program (TAP)

Note 2: See Section 4 – Programs / functions: Other County Departments / Transportation Penny Department for planned Fiscal Year 2023 paving and resurfacing projects planned under that program.



## FY-22 Capital Improvement Plan (CIP)

### Pavement Preservation:

Road Name	District	Linear Miles	Dept
Wade Kelly Rd	2	1.24	DPW
Ray Kelly Rd	2	0.31	DPW
Soft Stone Dr	2	0.40	DPW
Eastbrook Rd	3	0.15	DPW
Westbrook Rd	3	0.09	DPW
Hoyt St	3	0.14	DPW
Summer Pines Dr	7	0.36	DPW
Summer Brook Ct	7	0.08	DPW
Joshua Tree Ct	7	0.16	DPW
Apple Branch Ct	7	0.15	DPW
Pine Sapp Dr	7	0.12	DPW
Abbott Rd	10	0.41	DPW
Total		3.61	

### Road Repair and Resurfacing:

Road Name	District	Linear Miles	Dept
Chadford Rd	1	0.82	DPW
Ivy Green Ln	1	0.34	DPW
Ivy Green Ct	1	0.05	DPW
Ivy Green Cir	1	0.20	DPW
Ivy Gate Ct	1	0.05	DPW
Arbor Oaks Cir	2	0.14	DPW
Arbor Oaks Ln	2	0.14	DPW
Hillpine Rd	2	0.34	DPW
Oak Knoll Dr	2	0.40	DPW
Parliament Lake Dr	3	0.15	DPW
Parliament Lake Ct	3	0.04	DPW
Dunbarton Dr	3	0.38	DPW
St Andrews Rd	4	0.30	DPW
Laburnum Dr	5	0.22	DPW
Folkstone Rd	7	0.56	DPW
Great North Rd	7	0.53	DPW
Abbott Rd	10	0.13	DPW
Walcott Rd	10	0.13	DPW

Shorecrest Dr	10	0.39	DPW
Trotwood Dr	11	0.32	DPW
Old South Dr	11	0.27	DPW
Kempshire Blvd	11	0.42	DPW
Cardington Dr	11	0.73	DPW
Cardington Ct	11	0.11	DPW
Raintree Ln	11	0.23	DPW
Total		7.69	

Sidewalk Construction:

Road Name	Start	End	District	Length (ft)
St Andrews Rd	Broad River Rd	End	4	1880
Friarsgate Blvd	Park	Old Well Rd	2	3420
Total				5300

Sidewalk Capital Maintenance:

In addition to new sidewalk construction, \$35,000 is budgeted for the maintaining existing sidewalks within the County Road Maintenance System this fiscal year. Areas for maintenance will be identified by County staff and prioritized to address safety concerns.



# Enclosures 1-7



**Department of Public Works**

County Road Maintenance System (CRMS)

Fiscal Year 2023 Annual Maintenance and Improvement Comprehensive Plan

Updated: June 30, 2022

Enclosure (1) RDM Maintenance Area Road Type / Mileage Breakdown

Unpaved roads

RDM Maintenance Area

	County Owned		Prescriptive Easement		All County Unpaved	
	Length (ft)	Length (miles)	Length (ft)	Length (miles)	Total Length (ft)	Length (miles)
<b>Ballentine</b>	55,049.99	10.43	151,046.20	28.61	206,096.18	39.03
<b>Eastover</b>	98,728.72	18.70	434,489.60	82.29	533,218.32	100.99
<b>Northeast</b>	88,976.51	16.85	243,936.95	46.20	332,913.46	63.05
<b>Total Length</b>	242,755.22	45.98	829,472.75	157.10	1,072,227.96	203.07

Paved roads

RDM Maintenance Area

	County Owned		Municipal Owned		All County Paved	
	Length (ft)	Length (miles)	Length (ft)	Length (Miles)	Total Length (ft)	Length (miles)
<b>Ballentine</b>	674,419.20	127.73	106,154.54	20.11	780,573.74	147.84
<b>Eastover</b>	423,894.05	80.28	0.00	0.00	423,894.05	80.28
<b>Northeast</b>	2,105,665.02	398.80	34,691.08	6.57	2,140,356.10	405.37
<b>Total Length</b>	3,203,978.26	606.81	140,845.62	26.68	3,344,823.88	633.49



County Road Maintenance System (CRMS)  
 Fiscal Year 2023 Annual Maintenance and Improvement Comprehensive Plan

Enclosure (2) County Council District Road Type / Mileage Breakdown

Unpaved roads  
 Council District

	County Owned (Public ROW)		Prescriptive Easement		All County Unpaved	
	Length (ft)	Length (miles)	Length (ft)	Length (miles)	Total Length (ft)	Length (miles)
1	50,468.40	9.56	142,820.50	27.05	193,288.90	36.61
2	32,161.04	6.09	151,731.70	28.74	183,892.75	34.83
3	2,262.57	0.43	2,270.25	0.43	4,532.82	0.86
4	447.29	0.08	913.53	0.17	1,360.82	0.26
5	2,955.73	0.56	1,368.29	0.26	4,324.02	0.82
6	757.67	0.14	0.00	0.00	757.67	0.14
7	38,935.88	7.37	72,890.20	13.80	111,826.08	21.18
8	5,481.05	1.04	6,415.51	1.22	11,896.56	2.25
9	8,355.17	1.58	7,392.80	1.40	15,747.97	2.98
10	70,458.44	13.34	395,741.00	74.95	466,199.44	88.30
11	30,471.96	5.77	47,928.98	9.08	78,400.94	14.85
<b>Total Length</b>	<b>242,755.22</b>	<b>45.98</b>	<b>829,472.75</b>	<b>157.10</b>	<b>1,072,227.96</b>	<b>203.07</b>

Paved roads  
 Council District

	County Owned (Public ROW)		Municipal Owned		All County Paved	
	Length (ft)	Length (miles)	Length (ft)	Length (miles)	Total Length (ft)	Length (miles)
1	523,094.69	99.07	60,091.54	11.38	583,186.23	110.45
2	394,713.18	74.76	54,179.94	10.26	448,893.12	85.02
3	167,829.84	31.79	3,974.05	0.75	171,803.89	32.54
4	45,668.21	8.65	0.00	0.00	45,668.21	8.65
5	14,124.58	2.68	0.00	0.00	14,124.58	2.68
6	17,771.87	3.37	2,808.01	0.53	20,579.88	3.90
7	420,969.60	79.73	19,792.08	3.75	440,761.68	83.48
8	552,657.17	104.67	0.00	0.00	552,657.17	104.67
9	609,602.66	115.46	0.00	0.00	609,602.66	115.46
10	172,768.37	32.72	0.00	0.00	172,768.37	32.72
11	284,778.10	53.94	0.00	0.00	284,778.10	53.94
<b>Total Length</b>	<b>3,203,978.26</b>	<b>606.81</b>	<b>140,845.62</b>	<b>26.68</b>	<b>3,344,823.88</b>	<b>633.49</b>



County Road Maintenance System (CRMS)  
 Fiscal Year 2023 Annual Maintenance and Improvement Comprehensive Plan  
 Updated: June 30, 2022

Enclosure (3) IGA Road Type / Small Municipality / Mileage Breakdown

Municipality	Paved Roads (miles)	Unpaved Roads (miles)	Total (miles)
Arcadia Lakes	1.57	0	1.57
Blythewood	10.57	3.53	14.09
Cayce	0	1.58	1.58
Eastover	0.94	0.42	1.36
Forest Acres	4.89	0.2	5.09
Irmo	25.76	1.7	27.45
Total (mMiles)	43.73	7.42	51.15



County Road Maintenance System (CRMS)  
Fiscal Year 2023 Annual Maintenance and Improvement Comprehensive Plan  
Updated: June 30, 2022

Enclosure (4) Bridge / Type / Location

Location	Type
Old Garners Ferry Road at Mill Creek	Concrete slab on piers
White House Road at Gills Creek	Concrete slab on piers
Chinquapin Road at Stoops Creek	Open bottom culvert
Raintree Drive at ditch crossing	Open bottom culvert
Beechwood Lane at ditch crossing	Open bottom culvert



County Road Maintenance System (CRMS)  
 Fiscal Year 2023 Annual Maintenance and Improvement Comprehensive Plan  
 Updated: June 30, 2022

Enclosure (5) Railroad crossings/type/location

Road Atlas Map Grid	Name of Road	Road Type	Entity in Charge of Inspections	Type of RR Line Crossed	Own r/w on Road	Municipality	SCDOT Crossing	Comments
49B4	Lykesland Trail	Unpaved	County	Main railroad track	Yes	County	723733S	
27D4	Vine Street	Paved	County	Side railroad track	Yes	County	634637U	Crossing between Rosewood Drive and Brookwood Drive
34F1	Mount Pilgrim Church Road	Unpaved	County	Main railroad track	No	County	715899B	
72B2	Gus Lane	Unpaved	County	Main railroad track	No	County	632650B	
32D3	Pine Wedge Drive	Paved	County	Main railroad track	Yes	County	715908X	
27D4	Vine Street	Paved	County	Side railroad track	Yes	County	634638B	Crossing Southeast of Brookwood Drive
37B5	Mauney Drive	Paved	County	Side railroad track	Yes	County	904637R	
27D4	Garland Street	Paved	County	Side railroad track	Yes	County	634642R	Crossing between Rosewood Drive and Brookwood Drive
27D4	Duval Street	Paved	County	Side railroad track	Yes	County	634640C	Crossing between Rosewood Drive and Brookwood Drive
27D4	Duval Street	Paved	County	Side railroad track	Yes	County	634641J	Crossing southeast of Brookwood Drive
27D4	Rosewood Drive	Paved	County	Side railroad track	Yes	County	634636M	
27D4	Garland Street	Paved	County / Columbia	Side railroad track	Part	County and Columbia	634643X	County owns approach from west side of crossing, RR r/w is
27D4	Oakdale Drive	Paved	County	Side railroad track	Yes	County	634644E	Crossing between Rosewood Drive and Brookwood Drive
05B4	Lynn McCartha Road	Unpaved	County	Main railroad track	No	County	843360B	
05B4	Walter McCartha Road	Unpaved	County	Main railroad track	No	County	843359G	
31D4	Frank Dale Road	Unpaved	County	Main railroad track	No	County	715917W	Road is small connector between Frank Dale Road and Gunter Circle
35D4	Cadia Drive	Unpaved	County	Main railroad track	No	County	634296D	
32C2	Boomer Road	Unpaved	County	Main railroad track	No	Blythewood	715910Y	
4.90E+04	Century Oaks Lane	Unpaved	County	Main railroad track	No	County	632196S	
35A4	Fontaine Center Drive	Paved	County	Main railroad track	Yes	County	640941L	
62A2	Third Street	Unpaved	County	Main railroad track	No	County	723729C	RR Crossing is beyond County ownership, connects to Edmonds Farm Road
27F4	Andrews Road	Unpaved	County / Columbia	Side railroad track	No	County and Columbia	904635C	County unpaved road - RR right of way is within City of Columbia
<b>Not on SCDOT (2011) List</b>								
27D3	Olympia Avenue	Paved	County / Columbia	Main railroad track	Part	County and Columbia		County owns approach from west side of crossing
3.20E+05	Wooten Road	Unpaved	County	Main railroad track	No	County		
45F1	Fashion Drive	Paved	County	Main railroad track	Yes	County		

Enclosure (6) Traffic / Crossing Lighted Signals

Traffic Signals

Intersection Location	RDM Maintenance Area
Fashion and Forum Dr	North
Summit Parkway at Summit Ridge	North
Summit Commons at Summit Parkway	North

School Zone Flashing Signal

School	RDM Maintenance Area
HE Corley Elementary	West
Summit Parkway Middle	North



County Road Maintenance System (CRMS)  
 Fiscal Year 2023 Annual Maintenance and Improvement Comprehensive Plan  
 Updated through March 2021

Enclosure (7) County-Maintained Sidewalks

RDM Maintenance  
 Area

	County Owned		Municipal Owned		All County Paved	
	Length (ft)	Length (miles)	Length (ft)	Length (miles)	Total Length (ft)	Length (miles)
<b>Ballentine</b>	318,161.24	60.26	27,202.02	5.15	345,363.26	65.41
<b>Eastover</b>	62,697.20	11.87	0.00	0.00	62,697.20	11.87
<b>Northeast</b>	900,517.83	170.55	5,330.56	1.01	905,848.38	171.56
<b>Total Length</b>	1,281,376.27	242.68	32,532.58	6.16	1,313,908.85	248.85

Council District

	County Owned		Municipal Owned		All County Paved	
	Length (ft)	Length (miles)	Length (ft)	Length (miles)	Total Length (ft)	Length (miles)
1	305,428.05	57.85	18,639.50	3.53	324,067.55	61.38
2	158,926.64	30.10	8,562.52	1.62	167,489.16	31.72
3	29,166.41	5.52	0.00	0.00	29,166.41	5.52
4	6,364.30	1.21	0.00	0.00	6,364.30	1.21
5	0.00	0.00	0.00	0.00	0.00	0.00
6	3,246.30	0.61	0.00	0.00	3,246.30	0.61
7	162,424.42	30.76	5,330.56	1.01	167,754.98	31.77
8	325,382.70	61.63	0.00	0.00	325,382.70	61.63
9	227,740.25	43.13	0.00	0.00	227,740.25	43.13
10	7,466.48	1.41	0.00	0.00	7,466.48	1.41
11	55,230.72	10.46	0.00	0.00	55,230.72	10.46
<b>Total Length</b>	1,281,376.27	242.68	32,532.58	6.16	1,313,908.85	248.85



**RICHLAND COUNTY  
ADMINISTRATION**

2020 Hampton Street, Suite 4069  
Columbia, SC 29204  
803-576-2050



**Agenda Briefing**

<b>Prepared by:</b>	Aric Jensen, AICP	<b>Title:</b>	Assistant County Administrator
<b>Department:</b>	Administration	<b>Division:</b>	
<b>Date Prepared:</b>	September 1, 2022	<b>Meeting Date:</b>	September 27, 2022
<b>Legal Review</b>	Patrick Wright via email	<b>Date:</b>	September 15, 2022
<b>Budget Review</b>	Abhijit Deshpande via email	<b>Date:</b>	September 19, 2022
<b>Finance Review</b>	Stacey Hamm via email	<b>Date:</b>	September 20, 2022
<b>Approved for consideration:</b>	County Administrator	Leonardo Brown, MBA, CPM	
<b>Meeting/Committee</b>	Development & Services		
<b>Subject</b>	Absentee Landlord Ordinance and Registration		

**RECOMMENDED/REQUESTED ACTION:**

Staff recommends approval of proposed ordinance amendments to full Council.

Request for Council Reconsideration:  Yes

**FIDUCIARY:**

Are funds allocated in the department’s current fiscal year budget?  Yes  No  
 If not, is a budget amendment necessary?  Yes  No

**ADDITIONAL FISCAL/BUDGETARY MATTERS TO CONSIDER:**

At this time no additional personnel or equipment are required to implement the proposed ordinance amendments; however, as population and development increase, there will need to be a commensurate growth in personnel to administer and enforce these statutes and practices.

*Applicable department/grant key and object codes:*

**OFFICE OF PROCUREMENT & CONTRACTING FEEDBACK:**

Not applicable.

**COUNTY ATTORNEY’S OFFICE FEEDBACK/POSSIBLE AREA(S) OF LEGAL EXPOSURE:**

The County Attorney’s Office collaborated with staff on the creation of the proposed language.

**REGULATORY COMPLIANCE:**

**MOTION OF ORIGIN:**

I move to direct the County Attorney to work with the County Administrator to research and draft an absentee landlord ordinance. The ordinance should provide potential remedies for individuals who violate county ordinances and provide, via supplemental documentation, a comprehensive review of the legal impacts [potentially] associated with the adoption of such an ordinance.

Council Member	Chakisse Newton, District 11, and Joyce Dickerson, formerly of District 2
Meeting	Regular Session
Date	November 19, 2019

**STRATEGIC & GENERATIVE DISCUSSION:**

**Background**

At the July 28, 2002 D&S Committee Meeting, the Committee directed the Administrator to perform two tasks and to present the work product for consideration at the September 27 meeting:

First, to create an online portal and database for absentee landlord registration using an existing software platform such as E-Trackit (which is currently used for entering and processing land use permit related applications).

Second, as necessary, amend the County Code to:

- Affirmatively state that a property owner, property manager, and any tenant may be cited and held responsible for the violation of a county ordinance related to zoning, building safety, and property maintenance;
- Affirmatively state that any County Code Enforcement Officer or Public Safety Officer can issue a citation for any violation of a County code;
- Require that the owner of any non-owner-occupied residential property or unit provide and keep current within the County’s online database a mailing address, phone number, and email address for an authorized agent located within 50 miles of the property;  
Require a business license for any person or entity that owns 2 or more non-owner-occupied residential units for lease, OR require that any person or entity that owns 2 or more non-owner-occupied residential units for lease contract with a professional property management firm that has a current Richland County business license and that pays equivalent licensing fees.

**ADDITIONAL COMMENTS FOR CONSIDERATION:**

**Updated Workschedule**

- 01-Mar-2022 Workgroup committee meeting #1, 1st Draft workplan completed
- 01-Apr-2022 Workgroup committee meeting #2, 2nd Draft workplan completed
- 24-May-2022 Workplan update to D&S Committee
- 27-Jun-2022 Presentation and Committee Direction
- 26-Jul-2022 Committee Direction to Prepare Ordinance Language
- 27-Sep-2022 D&S Committee Action
- 18-Oct-2022 CC First Reading
- 15-Nov-2022 CC Public Hearing and Second Reading
- 06-Dec-2022 CC Third Reading

**ATTACHMENTS:**

1. Proposed Ordinance Language

STATE OF SOUTH CAROLINA  
COUNTY COUNCIL FOR RICHLAND COUNTY  
ORDINANCE NO. \_\_\_\_-22HR

AN ORDINANCE AMENDING THE RICHLAND COUNTY CODE OF ORDINANCES; CHAPTER 16, LICENSES AND MISCELLANEOUS BUSINESS REGULATIONS; BY THE ADDITION OF ARTICLE VII, RESIDENTIAL RENTAL PROPERTY REGISTRATION AND REGULATIONS.

Pursuant to the authority granted by the Constitution and the General Assembly of the State of South Carolina, BE IT ENACTED BY THE COUNTY COUNCIL FOR RICHLAND COUNTY:

SECTION I. The Richland County Code of Ordinances; Chapter 16, Licenses and Miscellaneous Business Regulations; is hereby amended by the addition of Article VII, Residential Rental Property Registration and Regulations, to read as follows:

**ARTICLE VII. RESIDENTIAL RENTAL PROPERTY REGISTRATION AND REGULATIONS**

**Sec. 16-71. Purpose.**

The general purpose of this article is to safeguard all neighborhoods within the unincorporated areas of Richland County from blight and unsafe living conditions by requiring the owners, tenants, property management companies, and property managers to share equally in the burden and liability of the compliance with all county property and building related ordinances and regulations.

**Sec. 16-72. Registration; business license.**

- a) The owner of any non-owner occupied and habitable residential property or unit shall register such property or unit with the county's online database within thirty (30) days of such property or unit becoming non-owner occupied and habitable. For the purpose of this article only, habitable shall mean capable of being lived in as evidenced by a certificate of occupancy and/or a legal electric supply and running water. Registration shall include:
  1. Owner's mailing address
  2. Owner's phone number
  3. Owner's email address, if any
  4. If the owner shall not reside within fifty (50) miles of the registered address, then all of the above information is also required of an authorized agent residing within the fifty (50) mile radius.
- b) Any person or entity owning more than one (1) non-owner occupied residential property or unit within unincorporated Richland County- [that is leased or available for lease](#) must obtain a business license; provided, however, that those persons or entities contracting with a properly licensed property manager or property management company for management of such properties or units shall be exempt from such requirement. If at any time such property manager or company shall fail to properly obtain or maintain a business license within Richland County, it shall be the responsibility of the owner to obtain such license on its own behalf.

**Sec. 16-73. Enforcement and penalties.**

It shall be the responsibility of the owner, property manager, property management company, and tenant, each individually and collectively, to comply with all Richland County ordinances related to property maintenance, weeds and

rank vegetation, zoning, building regulations, and building safety, and each person or entity may be cited for a violation of such county ordinance; provided, however, a tenant may only be cited for a violation of zoning or building regulations if there is affirmative evidence that the tenant actively constructed any structure or created a use in violation of such ordinances.

In addition to appropriate civil and/or equitable remedies for enforcement of this article, any person convicted of violating this section shall be guilty of a misdemeanor and shall be punished in accordance with the provisions of section 1-8 of this Code of Ordinances.

SECTION II. Severability. If any section, subsection, or clause of this ordinance shall be deemed to be unconstitutional or otherwise invalid, the validity of the remaining sections, subsections, and clauses shall not be affected thereby.

SECTION III. Conflicting Ordinances Repealed. All ordinances or parts of ordinances in conflict with the provisions of this ordinance are hereby repealed.

SECTION IV. Effective Date. This ordinance shall be effective from and after \_\_\_\_\_, 2022.

RICHLAND COUNTY COUNCIL

BY: \_\_\_\_\_  
Overture Walker, Chair

ATTEST THIS THE \_\_\_\_\_ DAY

OF \_\_\_\_\_, 2022

\_\_\_\_\_  
Anette Kirylo  
Clerk of Council

RICHLAND COUNTY ATTORNEY'S OFFICE

\_\_\_\_\_  
Approved As To LEGAL Form Only  
No Opinion Rendered As To Content

First Reading:  
Second Reading:  
Public Hearing:  
Third Reading:



**Agenda Briefing Addendum**

<b>Prepared by:</b>	Aric Jensen, AICP	<b>Title:</b>	Assistant County Administrator
<b>Department:</b>	Administration	<b>Division:</b>	
<b>Date Prepared:</b>	October 11, 2022	<b>Meeting Date:</b>	September 27, 2022
<b>Approved for Consideration:</b>	County Administrator		Leonardo Brown, MBA, CPM
<b>Committee:</b>	Development & Services		
<b>Agenda Item:</b>	5a. I move to direct the County Administrator to work with the County Attorney to research and draft an absentee landlord ordinance. The ordinance should provide potential remedies for individuals who violate county ordinances and provide, via supplemental documentation, a comprehensive review of the legal impacts [potentially] associated with the adoption of such an ordinance.		

**COUNCIL INQUIRY:**

Why was the distance of 50 miles chosen? Can the provision be modified to reflect the owner living within the County? Does it require those who live outside of the 50 mile radius to find/hire someone to register on their behalf?

What is the logic associated with the recommendation?

Would it be considered an undue burden to require the designation of an authorized agent?

*Reply:*

The distance of 50 miles was chosen as some federal agencies use this distance to distinguish between “local” and “extraterritorial” activities. There is neither an identified industry standard nor a uniform distance standard among local governments.

Yes; the distance provision can be modified to reflect the owner living within the County.

The distance provision can require an owner living outside of the distance parameters to hire someone to act as a local agent for the owner.

Absentee landlord ordinances and similar regulations have been in widespread use for at least the past 30 years, and the concept of requiring a local agent is common among many regulatory bodies. The logic associated with the recommendation is to ensure that parties and individuals who reside outside of a county, state, or country can be served summons and citations and be held accountable for their actions or inactions, associated with meeting governing standards of property upkeep and maintenance.

**COUNCIL INQUIRY:**

Is an apartment complex considered one unit or is each apartment considered a separate unit? As a tenant within the complex, is s/he absolved from the responsibilities outlined within the ordinance?

*Reply:*

An apartment complex is not one dwelling unit; it is a series of dwelling units attached to one another.

There are many categories of leases: commercial, residential, industrial, professional office, agricultural, hunting, vacant land, etc., and each will be structured according to a unique set of circumstances. As such, any property code enforcement ordinance must include the tenant, the property manager, and the property owner in the enforcement process – because, sometimes, the tenant is responsible for mowing the lawn and taking out the garbage; other times, it is the property management firm; and yet, sometimes, it is the property owner. The same applies to other potential violations. The party responsible for the violation is the party that has to be held accountable – there is no discretion in that regard.

**COUNCIL INQUIRY:**

Is there an "order of operations" for who is held responsible for an item or is each individual held responsible simultaneously? Does the person serving the citation have a great deal of the latitude to determine to who is cited based on the law in some areas and judgment in others?

*Reply:*

The code enforcement individual will most likely start with the party that appears to be responsible for the violation. For example, if the violation is a car parked on the front lawn of a detached house, they would start with the tenant or car owner. If the violation is a dead tree at an apartment complex, they would start with the property manager or property owner. If the violation was a pollution discharge at an industrial property, they would start with the business owner/operator. There is no set order of operations that applies to every instance as it depends on the situation and the violation.

**COUNCIL INQUIRY:**

What is the cost associated with the creation of the database?

*Reply:*

The database will use existing software owned by the County and will be populated by the property owners or property management firms. The only cost to the County will be the initial set-up of the database, which will be done in-house and probably involve 20-30 hours of staff time.

**COUNCIL INQUIRY:**

Are penalties both civil and/or criminal (referred to the mention of a misdemeanor)? Does the County have opportunities for redress in terms of recouping the County's costs for maintaining overgrown properties?

*Reply:*

The County does not have a civil code enforcement system, so all enforcement would be through the County's typical citation process.

The County can attempt to recuperate costs spent mitigating nuisances and violations through a lien on property, but the lien would not be collected until the property sells per state law. Municipalities in

South Carolina have the authority to have their liens satisfied the next time property taxes are assessed and collected.

As mentioned during previous committee meetings, County Administration is promoting a bill to give counties the same lien collection ability as municipalities, and it may be in the County's interest to discuss the benefits of a civil code enforcement process.

**COUNCIL INQUIRY:**

Councilmembers requested more information regarding the potential profitability of the program.

*Reply:*

As a general rule, government doesn't make a "profit" in the same sense as businesses in the private sector because government is a simply a steward of the public good. However, whenever a government agency improves its processes and accomplishes more with less resources, the community "benefits" from it. There is no intent or proposal to charge a fee to implement this program.

**COUNCIL INQUIRY:**

Does the ordinance apply only to absentee landlords or are all landlords required to obtain a business license?

*Reply:*

As drafted, the proposed ordinance provisions regarding code enforcement would apply only to situations where the property owner does not reside at the property (the definition of an "absentee landlord"). The proposed business licensing provisions (which are located in a different section of code) would apply uniformly throughout the unincorporated County to all property owners.

**COUNCIL INQUIRY:**

Why is the ordinance only for persons who own more than one unit? A landlord is a landlord and anyone who owns a unit for business purposes should have to follow the rules that everyone else does. Following that question [Councilmember Malinowski] stated that persons could use the more than one as a loophole and place individual units in other family members' names, thereby actually owning more than one unit in reality but only one on paper.

*Reply:*

The County's existing business license ordinance requires that an owner of 3 or more residential units for lease obtain a business license, which is a common practice in other jurisdictions. This standard is predicated on the argument that owning and leasing 1 or 2 properties does not rise to the level of being a commercial business, and, therefore, should not require a business license. The Council may establish any threshold it deems appropriate. The proposal at this time is to reduce the current threshold from 3 units to 2 units.

**COUNCIL INQUIRY:**

How will we educate landlords about the process?

*Reply:*

The proposed ordinance provisions are long standing practices in many jurisdictions; large property management firms and property owners with units in multiple jurisdictions may already be familiar with its provisions.

Staff recommends that any education effort should focus on small firms and individuals who only own one or two properties. The quickest and most effective way is direct notification to all landlords using the business license database. The next most effective activity is to provide education/information to the local realtor and property management member organizations for circulation through their networks. While less effective, media releases may still reach some persons who do not have business licenses or participate in a professional organization.