

ENGINEERING

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MIKE CAUSEY, INSURANCE COMMISSIONER & STATE FIRE MARSHAL BRIAN TAYLOR, CHIEF STATE FIRE MARSHAL

December 1, 2022

Mr. Kenneth Michael Womble Bond Dickinson (US) LLP One West Fourth Street Winston-Salem, NC 27101

RE: 2018 NC Building Code Section 1011.5.4 Dimensional uniformity

Mr. Michael:

This letter is in response to your request for formal interpretation dated November 3, 2022, which NCDOI received by email the same day. Your request for formal interpretation states in relevant part:

"Request No. 1: The NCDOI 9/23/22 Interpretation did not explain how stage steps W constitute a code compliant *Means of Egress* in contradiction to the NCDOI 1/6/22 Interpretation. Stage Steps W include adjacent risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (NC Bldg Code 1011.5.4). Are stage Steps W code compliant as a *Means of Egress*, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 2: The NCDOI 9/23/22 Interpretation did not render any interpretation as to code compliance regarding back stairway Steps A, G, H and I, because they were not included in the WCCC 8/02/22 Request for Interpretation (they were deemed non-code compliant in the NCDOI 9/23/22 Interpretation). At least one side of back stairway Steps A, G, H and I include stair runs with risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (including up to 7/8 inches). Are back stairway Steps A, G, H and I, code compliant as a *Means of Egress*, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 3: It appears the underlying basis of the WCCC 8/02/22 Request for Interpretation and the resultant NCDOI 9/23/22 Interpretation is only in regards to code compliance of the referenced steps *in the context of Means of Egress*. To the extent any of collective Steps A through W on the Project are not Means of Egress, for purposes of accessibility, general use by the public and otherwise, which, if any, risers and runs of steps are not code compliant based on Exhibit C to RCCC 12/16/21 Request for Interpretation – As-Built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC (with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams)?

Remarks:

Code sections noted in this letter are referring to the 2018 edition of the NC Building Code unless otherwise noted.

Attachment A is comprised of the request for formal interpretation as well as all supporting information submitted with the request.

Code Analysis:

...

...

...

Means of egress from buildings or portions thereof shall comply with the provisions of Chapter 10 Means of Egress.

1003.1 Applicability. The general requirements specified in Sections 1003 through 1015 shall apply to all three elements of the *means of egress* system, in addition to those specific requirements for the *exit access*, the *exit* and the *exit discharge* detailed elsewhere in this chapter.

Section 202 defines relevant terms related to egress and accessibility as follows:

MEANS OF EGRESS. A continuous and unobstructed path of vertical and horizontal egress travel from any occupied portion of a building or structure to a *public way*. A means of egress consists of three separate and distinct parts: the *exit access*, the *exit* and the *exit discharge*.

EXIT ACCESS. That portion of a *means of egress* system that leads from any occupied portion of a building or structure to an *exit*.

EXIT. That portion of a *means of egress* system between the *exit access* and the *exit discharge* or *public way*. Exit components include exterior exit doors at the *level of exit discharge, interior exit stairways and ramps, exit passageways, exterior exit stairways* and *ramps* and *horizontal exits*.

EXIT DISCHARGE. That portion of a *means of egress* system between the termination of an *exit* and a *public way*.

[A] PUBLIC WAY. A street, alley or other parcel of land open to the outside air leading to a street, that has been deeded, dedicated or otherwise permanently appropriated to the public for public use and which has a clear width and height of not less than 10 feet (3048 mm).

Comments: These sections and definitions are the starting point for evaluating the minimum requirements for emergency evacuation of all occupants from buildings, portions thereof and sites to a safe location.

1028.4 Egress Courts. *Egress courts* serving as a portion of the *exit discharge* in the *means of egress* system shall comply with the requirements of Sections 1028.4.1 and 1028.4.2.

...

EGRESS COURT. A *court* or *yard* which provides access to a *public way* for one or more exits. ...

YARD. An open space, other than a *court*, unobstructed from the ground to the sky, except where specifically provided by this code, on the lot on which a building is situated.

Comments: Egress courts such as courts and yards are permitted by code to be used for exit discharge.

1018.1 General. Aisles and aisle accessways serving as a portion of the exit access in the means of egress system shall comply with the requirements of this section. Aisles or aisle accessways shall be provided from all occupied portions of the exit access that contain seats, tables, furnishings, displays and similar fixtures or equipment. The minimum width or required capacity of aisles shall be unobstructed.

Exception: Encroachments complying with Section 1005.7.

Comments: A yard can be utilized for exit discharge if the yard is at grade level and is not within the confines of an enclosed building. If exit discharge is accomplished from ends of each of the aisles and accessways, stairs A, G, H and I referenced in Request 2 above are no longer required to be used for exit access from the aisles.

Stair treads and risers of shall be of uniform shape and size.

1011.5.4 Dimensional Uniformity. *Stair* treads and risers shall be of uniform size and shape. The tolerance between the largest and smallest riser height or between the largest and smallest tread depth shall not exceed 3/8 inch (9.5 mm) in any *flight* of *stairs*. The greatest *winder* tread depth at the walkline within any *flight* of *stairs* shall not exceed the smallest by more than 3/8 inch (9.5 mm).

Exceptions:

- 1. *Stairways* connecting stepped *aisles* to cross *aisles* or concourses shall be permitted to comply with the dimensional nonuniformity in Section 1029.13.2.
- 2. Consistently shaped *winders*, complying with Section 1011.5, differing from rectangular treads in the same *flight* of *stairs*.
- 3. Nonuniform riser dimension complying with Section 1011.5.4.1.

STAIR. A change in elevation, consisting of one or more risers.

FLIGHT. A continuous run of rectangular treads, winders or combination thereof from one landing to another.

•••

STAIRWAY. One or more flights of stairs, either exterior or interior, with the necessary landings and platforms connecting them, to form a continuous and uninterrupted passage from one level to another.

Comments: Stairways used for means of egress shall be of uniform shape and size.

Conclusions:

- (1) Stair W is intended to be used for means of egress therefore its stair treads and risers shall be of uniform shape and size as required by Section 1011.5.4.
- (2) Since a code-compliant means of egress system is provided via each end of the seating rows to a yard at grade level, stairs A, G, H and I are considered landscape steps. Landscape steps are not required to comply with the means of egress or accessibility requirements of the 2018 NC Building Code.
- (3) As per this formal interpretation and the NCDOI Formal Interpretations dated 9/23/22 and 10/17/22, landscape steps A through N are not required to comply with the means of egress or accessibility requirements of the 2018 NC Building Code.
- (4) As per this formal interpretation and the NCDOI Formal Interpretations dated 9/23/22 and 10/17/22, steps P through V are considered means of egress steps and shall comply with the means of egress requirements of the 2018 NC Building Code unless a barrier is provided to prevent use of those steps for egress from the stage. If steps P though V are used as a means of egress, then they must also comply with Section 1009.3 for accessibility. If steps P through V are not used as a means of egress, then the accessibility requirements of Section 1009.3 do not apply.
- (5) The tolerances for the stair heights noted in 2018 NCBC Chapter 10 Means of Egress are not a factor in determining the 2018 NCBC Chapter 11 Accessibility requirements for this project as an accessible means of egress is provided at the top of the outdoor classroom.

Please call or email if you have comments or questions.

Sincerely,

DB. Rittlinger

David B. Rittlinger, PE, LEED AP Chief Code Consultant NCDOI-OSFM Engineering & Codes Division

cc: File Bridget Herring, Chair – BCC Mark Matheny, Vice-Chair - BCC Michael Ali, Chair, Commercial Super Committee – BCC Terence Friedman, Assistant Attorney General, Insurance Section - NCDOJ

<u>ATTACHMENT A</u>

womblebonddickinson.com

November 3, 2022

Via Electronic Mail Mike.causey@ncdoi.gov

Marshal Mike Causey Commissioner of Insurance Engineering Section of the North Carolina Department of Insurance 430 North Salisbury Street 1201 Mail Service Center Raleigh, NC 27699-1201



One West Fourth Street Winston-Salem, NC 27101

t: 336.721.3600 f: 336.721.3660

Kenneth R. Michael, Esquire Partner Direct Dial: 336-721-3644 E-mail: Ken.Michael@wbd-us.com

Re: <u>Resubmitted for Complete Response</u> Request for Formal Interpretation (N.C. Gen. Stats. § 160D-1127) Rowan Cabarrus Community College Outdoor Classroom Phase II (the "Project") 1333 S. Jake Alexander Blvd., Salisbury, NC

Request for Expedited Response

Commissioner Causey,

Womble Bond Dickinson is counsel for Rowan Cabarrus Community College ("RCCC"), submitting this <u>Resubmitted for Complete Response</u> - Request for Formal Interpretation ("Resubmitted for Complete Response (11/03/22) - RCCC 9/28/22 Request for Interpretation"). On October 17, 2022, NCDOI issued its response ("NCDOI 10/17/22 Interpretation") to RCCC's September 28, 2022 (corrected date) Request for Interpretation ("RCCC 9/28/22 Request for Interpretation"). The NCDOI 10/17/22 Interpretation, which includes as an attachment the RCCC 9/28/22 Request for Interpretation, is attached to this letter as <u>Annex 1</u>. For convenience, I am attaching to the email that is transmitting this letter as <u>Annex 2</u> the 2MB file of the As-built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC, with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams.

All three requests in the RCCC 9/28/22 Request for Interpretation asked if the steps are code compliant for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code:

"Request No. 1: The NCDOI 9/23/22 Interpretation did not explain how stage Steps W constitute a code compliant *Means of Egress* in contradiction to the NCDOI 1/6/22 Interpretation. Stage Steps W include adjacent risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (NC Bldg Code § 1011.5.4). Are stage Steps W code compliant, as a *Means of Egress*, for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 2: The NCDOI 9/23/22 Interpretation did not render any interpretation as to code compliance regarding back stairway Steps A, G, H, and I, because they were not included in the WCCC 8/02/22 Request for Interpretation (they were deemed non-code compliant in the NCDOI 9/23/22 Interpretation). At least one side of back stairway Steps A, G, H, and I include stair runs with risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (including up to 7/8 inches). Are back stairway Steps A, G, H, and I, code compliant,

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Marshal Mike Causey November 3, 2022 Page 2 of 3

as a *Means of Egress*, for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 3: It appears the underlying basis of the WCCC 8/02/22 Request for Interpretation and the resultant NCDOI 9/23/22 Interpretation are only in regards to code compliance of the referenced steps in the context of Means of Egress. To the extent any of collective Steps A through W on the Project are not Means of Egress, for purposes of accessibility, general use by the public and otherwise, which, if any, risers and runs of steps are not code compliant based on Exhibit C to RCCC 12/16/21 Request for Interpretation - As-built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC (with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams)?"

Regarding the first two requests, the NCDOI 10/17/22 Interpretation provided guidance on what is codecompliant <u>only</u> with respect to Chapter 10 means of egress, but was non-responsive to the express request for guidance on code compliance regarding Chapter 11 accessibility, general use by the public, and elsewhere in the 2018 NC Building Code. The NCDOI 10/17/22 Interpretation did not respond at all to the third request. The NCDOI 10/17/22 Interpretation only considered Chapter 10 - Means of Egress, with no mention of Chapter 11 - Accessibility.¹

The back four flights of stairway steps total 32 risers and the ten flights of aisle steps in the amphitheater total 30 risers; therefor the NCDOI 10/17/22 Interpretation deemed 62 risers (excluding stage steps) not to be means of egress, and not having to comply with the stair height tolerances in 2018 NCBC Chapter 10 Means of Egress. While most the public could hypothetically use the landings at the ends of the seating rows and aisles as a path to the sloped yards flanking the amphitheater during an improbable emergency evacuation, <u>all</u> of the 62 steps in the occupied portion of the facility will most certainly be utilized by the public with everyday use of the facility. The RCCC 9/28/22 Request for Interpretation requested guidance on the accessibility and general use code compliance of these 62 steps, as well as the circular stage steps, which was not forthcoming.

Chapter 11 Accessibility Section 1101.2 – Design, provides: "Buildings and facilities shall be designed and constructed to be accessible in accordance with this code and ICC A117.1." §504.2 of ICC A117.1-2009 provides that all steps on a flight of stairs shall have uniform riser heights, with no apparent definition of the tolerance requirements for "uniform".² There is no apparent distinction as to whether the ICC A117.1 referenced "steps on a flight of stairs" are limited to means of egress or exit access, or just general use by the public. ICC A117.1-2009 §104.2 Dimensions provides "Dimensions that are not stated as 'maximum' or 'minimum' are absolute. All dimensions are subject to conventional industry tolerances." NCDOI's pending response to the above referenced Request No. 3 of RCCC 9/28/22 Request for Interpretation should provide guidance on whether all the steps on the subject project are sufficiently uniform and within code requirement tolerances regarding Chapter 11 accessibility, general use by the public, and elsewhere in the 2018 NC Building Code.

¹NC Building Code § 202 defines the following terms which were not considered in the NCDOI 10/17/22 Interpretation: "Accessible", "Accessible Route", "Circulation Path", "Public Use Areas", "Stair" and "Stairway", all of which are referenced in Chapter 11 (as well as "Assembly area seating" and "Lawn seating" which are discussed in Chapter 11), none of which were mentioned in the NCDOI 10/17/22 Interpretation.

² Exhibit C to RCCC 12/16/21 Request for Interpretation - As-built spot elevation survey, dated August 24, 2021, is replete with tolerances that exceed the 3/8 inch and 3/16 inch riser tolerances in § 1011.5.4 and § 1029.13.2.2.1 in 2018 NCBC Chapter 10 Means of Egress (as described in NCDOI's 01/06/22 Formal Interpretation).

Marshal Mike Causey November 3, 2022 Page 3 of 3

Please do not hesitate to let us know if you need any additional documents or information. From RCCC's perspective, the pending Formal Interpretation from NCDOI to the requests highlighted in yellow above directly impacts what is happening in real time on the project site. Since this Resubmitted for Complete Response (11/03/22) - RCCC 9/28/22 Request for Interpretation is not a new Request for Formal Interpretation, RCCC respectfully requests an expedited response if possible.

Sincerely,

WOMBLE BOND DICKINSON (US) LLP

Kenneth R. Michael

KRM: kwb

cc: Terence Friedman, Esq., NCDOJ, counsel for NCDOI, Tfriedman@ncdoj.gov Nathan Childs, Esq., NCDOJ, counsel for NC Building Code Council, nchilds@ncdoj.gov Thomas O'Kelly, Director, Rowan County Bldg Inspections, Thomas.okelly@rowancountync.gov Scott Lowder, Sr.Inspector, Rowan County Bldg Inspections, Jessie.Lowder@rowancountync.gov Jay Dees, Esq., counsel for Rowan County Bldg Inspections, jay.dees@rowancountync.gov Jonathan Chamberlain, Chief Officer, RCCC, jonathan chamberlain@rccc.edu Jim Atkinson, Project Manager, RCCC, jim.atkinson@rccc.edu Mark Henriques, Esq., counsel for RCCC, Mark.Henriques@wbd-us.com James Bernier, Jr., Special Deputy Attorney General, NCDOJ, JBernier@ncdoj.gov Michael Ali, NC SCO, michael.ali@doa.nc.gov Jeff Hinkle, NC SCO Monitor, Jeffrey.Hinkle@doa.nc.gov Russell Killen, Esq., counsel for McAdams, russellkillen@parkerpoe.com Brian Darer, Esq., counsel for McAdams, briandarer@parkerpoe.com Nick Lowe, RLA, McAdams, nlowe@mcadamsco.com Robert Attardo, Esq., counsel for Labella, RAttardo@LaBellaPC.com Bryan Badeaux, Esq. Sr. Surety Claims Counsel, Philadelphia Insurance, Bryan Badeaux@phly.com Jeff Price, Esq., counsel for Philadelphia Insurance, jprice@manierherod.com Andrew Chapin, Esq., counsel for WC Construction, AChapin@cgspllc.com

Attachments (attached to the email transmitting this Resubmitted for Complete Response (11/03/22) -RCCC 9/28/22 Request for Interpretation):

Annex 1	NCDOI 10/17/22 Interpretation and attachments, which includes as an attachment the
	RCCC 9/28/22 Request for Interpretation (attached to the email transmitting this
	Resubmitted for Complete Response (11/03/22) - RCCC 9/28/22 Request for
	Interpretation)
Annex 2	2MB file of the As-built spot elevation survey, dated August 24, 2021, by Douglas
	Surveying, PLLC, with subsequently added text of calculations in red font by the
	Designer, Nick Lowe, of McAdams (attached to the email transmitting this Resubmitted
	for Complete Response (11/03/22) - RCCC 9/28/22 Request for Interpretation)



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MIKE CAUSEY, INSURANCE COMMISSIONER & STATE FIRE MARSHAL BRIAN TAYLOR, CHIEF STATE FIRE MARSHAL

October 17, 2022

Mr. Kenneth Michael Womble Bond Dickinson (US) LLP One West Fourth Street Winston-Salem, NC 27101

RE: 2018 NC Building Code Section 1011.5.4 Dimensional uniformity

Mr. Michael:

This letter is in response to your request for formal interpretation dated September 28, 2022, that was received in NCDOI by email on September 28, 2022. Your request for formal interpretation states in part:

"Request No. 1: The NCDOI 9/23/22 Interpretation did not explain how stage steps W constitute a code compliant *Means of Egress* in contradiction to the NCDOI 1/6/22 Interpretation. Stage Steps W include adjacent risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (NC Bldg Code 1011.5.4). Are stage Steps W code compliant as a *Means of Egress*, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 2: The NCDOI 9/23/22 Interpretation did not render any interpretation as to code compliance regarding back stairway Steps A, G, H and I, because they were not included in the WCCC 8/02/22 Request for Interpretation (they were deemed non-code compliant in the NCDOI 9/23/22 Interpretation). At least one side of back stairway Steps A, G, H and I include stair runs with risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (including up to 7/8 inches). Are back stairway Steps A, G, H and I, code compliant as a *Means of Egress*, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 3: It appears the underlying basis of the WCCC 8/02/22 Request for Interpretation and the resultant NCDOI 9/23/22 Interpretation is only in regards to code compliance of the referenced steps *in the context of Means of Egress*. To the extent any of collective Steps A through W on the Project are not Means of Egress, for purposes of accessibility, general use by the public and otherwise, which, if any, risers and runs of steps are not code compliant based on Exhibit C to RCCC 12/16/21 Request for Interpretation – As-Built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC (with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams)?

Remarks:

OFFICE OF STATE FIRE MARSHAL

1202 MAIL SERVICE CENTER | RALEIGH, NC 27699-1202 | WWW.NCDOI.COM/OSFM

Code sections noted in this letter are referring to the 2018 edition of the NC Building Code unless otherwise noted.

Attachment A is comprised of the request for formal interpretation as well as all supporting information submitted with the request.

Code Analysis:

Means of egress from buildings or portions thereof shall comply with the provisions of Chapter 10 Means of Egress.

1001.3 Applicability. The general requirements specified in Sections 1003 through 1015 shall apply to all three elements of the *means of egress* system, in addition to those specific requirements for the *exit access*, the *exit* and the *exit discharge* detailed elsewhere in this chapter.

Chapter 2 defines relative terms related to egress as follows:

MEANS OF EGRESS. A continuous and unobstructed path of vertical and horizontal egress travel from any occupied portion of a building or structure to a *public way*. A means of egress consists of three separate and distinct parts: the *exit access*, the *exit* and the *exit discharge*.

EXIT ACCESS. That portion of a *means of egress* system that leads from any occupied portion of a building or structure to an *exit*.

EXIT. That portion of a means of egress system between the exit access and the exit discharge or public way. Exit components include exterior exit doors at the level of exit discharge, interior exit stairways and ramps, exit passageways, exterior exit stairways and ramps and horizontal exits.

EXIT DISCHARGE. That portion of a means of egress system between the termination of an exit and a public way.

[A] PUBLIC WAY. A street, alley or other parcel of land open to the outside air leading to a street, that has been deeded, dedicated or otherwise permanently appropriated to the public for public use and which has a clear width and height of not less than 10 feet (3048 mm).

Comments: These sections and definitions are the starting point for evaluating the minimum requirements for emergency evacuation of all occupants from buildings, portions thereof and sites to a safe location.

1028.4 Egress Courts. Egress courts serving as a portion of the exit discharge in the means of egress system shall comply with the requirements of Sections 1028.4.1 and 1028.4.2.

EGRESS COURT. A court or yard which provides access to a public way for one or more exits.

YARD. An open space, other than a *court*, unobstructed from the ground to the sky, except where specifically provided by this code, on the lot on which a building is situated.

Comments: Egress courts such as courts and yards are permitted by code to be used for exit discharge.

1018.1 General. Aisles and aisle accessways serving as a portion of the exit access in the means of egress system shall comply with the requirements of this section. Aisles or aisle accessways shall be provided from all occupied portions of the exit access that contain seats, tables, furnishings, displays and similar fixtures or equipment. The minimum width or required capacity of aisles shall be unobstructed.

Exception: Encroachments complying with Section 1005.7.

Comments: A yard can be utilized for exit discharge if the yard is at grade level and is not within the confines of an enclosed building. If exit discharge is accomplished from ends of each of the aisles and accessways, stairs A, G, H and I are no longer required to be used for exit access from the aisles.

Stair treads and risers of shall be of uniform shape and size.

1011.5.4 Dimensional Uniformity. *Stair* treads and risers shall be of uniform size and shape. The tolerance between the largest and smallest riser height or between the largest and smallest tread depth shall not exceed 3/8 inch (9.5 mm) in any *flight* of *stairs*. The greatest *winder* tread depth at the walkline within any *flight* of *stairs* shall not exceed the smallest by more than 3/8 inch (9.5 mm).

Exceptions:

- Stairways connecting stepped aisles to cross aisles or concourses shall be permitted to comply with the dimensional nonuniformity in Section 1029.13.2.
- Consistently shaped winders, complying with Section 1011.5, differing from rectangular treads in the same *flight* of *stairs*.
- 3. Nonuniform riser dimension complying with Section 1011.5.4.1.

STAIR. A change in elevation, consisting of one or more risers.

FLIGHT. A continuous run of rectangular treads, winders or combination thereof from one landing to another.

STAIRWAY. One or more flights of stairs, either exterior or interior, with the necessary landings and platforms connecting them, to form a continuous and uninterrupted passage from one level to another.

Comments: Stairways used for means of egress shall be uniform shape and size.

Conclusions: If stair W is intended to be used for means of egress, its stair treads and risers shall be of uniform shape and size as required by 1011.5.4. Since a code-compliant means of egress system is provided via each end of the seating rows to a yard at grade level, stairs A, G, H and I are considered landscape steps. Landscape steps are not required to comply with the means of egress requirements of the 2018 NC Building Code. As per this formal interpretation and the NCDOI Formal Interpretation dated 9/23/22, landscape steps A through N are not required to comply with the means of egress requirements of the 2018 NC Building Code. As per the NCDOI Formal Interpretation dated 9/23/22, steps P though V are considered means of egress steps and shall comply with the means of egress requirements of the 2018 NC Building Code unless a barrier is provided to prevent use of those steps for egress from the stage.

Please call or email if you have comments or questions.

Sincerely,

DB. Rittlinger

David B. Rittlinger, PE, LEED AP Chief Code Consultant NCDOI-OSFM Engineering & Codes Division

cc: File Bridget Herring, Chair – BCC Mark Matheny, Vice-Chair - BCC Michael Ali, Chair, Commercial Super Committee – BCC Terence Friedman, Assistant Attorney General, Insurance Section - NCDOJ

ATTACHMENT A

womblebonddickinson.com

September 28, 2021

Via Electronic Mail Mike.causey@ncdoi.gov

Marshal Mile Causey Commissioner of Insurance Engineering Section of the North Carolina Department of Insurance 430 North Salisbury Street 1201 Mail Service Center Raleigh, NC 27699-1201



One West Fourth Street Winston-Salem, NC 27101

t: 336.721.3600 f: 336.721.3660

Kenneth R. Michael, Esquire Partner Direct Dial: 336-721-3644 E-mail: <u>Ken.Michael@wbd-us.com</u>

Re: Request for Formal Interpretation (N.C. Gen. Stats. § 160D-1127) Rowan Cabarrus Community College Outdoor Classroom Phase II (the "Project") 1333 S. Jake Alexander Bivd., Salisbury, NC

Commissioner Causey,

Womble Bond Dickinson is counsel for Rowan Cabarrus Community College ("RCCC"), submitting this second Request for Formal Interpretation ("RCCC 9/28/22 Request for Interpretation").

On August 2, 2022, W.C. Construction Company, LLC ("WCCC") submitted a Request for Formal Interpretation ("WCCC 8/02/22 Request for Interpretation") concerning the referenced Project, to which NCDOI issued its response on September 23, 2022 ("NCDOI 9/23/22 Interpretation") (see <u>Appendix</u> <u>#1</u>) concluding:

"Since a code-compliant Means of Egress system is provided via each end of the seating rows to a yard at grade level, stairs B thru F and J thru N are considered landscape steps. Landscape steps are not required to comply with the Means of Egress requirements of the 2018 NC Building Code. A code compliant Means of Egress system from the stage is provided at stairs O and W. With the addition of a barrier along the curved portion of the stage at stairs P thru V, egress from the stage is prevented from stairs P thru V. Since these steps are no longer used for egress, they become decorative steps and are not regulated by the 2018 NC Building code."

Therefore, in substance:

- Aisle Steps B through F and J through N are "landscape steps" that are not required to comply with the Means of Egress requirements of the 2018 NC Building Code
- Stage Steps O and W are a code compliant Means of Egress, and Stage Steps P through V
 with the addition of a barrier can become decorative steps that would not be regulated by the
 2018 NC Building Code.

Womble Bond Dickinson (US) LLP is a member of Womble Bond Dickinson (memational) Limited, which consists of independent and autonomous law firms providing sentose in the US, the UK, and elsewhere around the work. Each Womble Bond Dickinson entity is a separate legal entity and is not responsible for the acts or omscores or, nor can bind or obligate, another Womble Bond Dickinson entity. Womble Bond Dickinson (international) Limited does not practice law. Place case www.womblebonddickinson.com/us/legal.indos for further details. The NCDOI 9/23/22 Interpretation (a) did not explain how stage Steps W were a code compliant *Means of Egress* in contradiction to the NCDOI 1/6/22 Interpretation (see <u>Footnote 1</u>¹ for background); and (b) did not render any interpretation as to code compliance concerning back stairway Steps A, G, H, and I, because they were not included in the WCCC 8/02/22 Request for Interpretation (they were deemed non-code compliant in the NCDOI 9/23/22 Interpretation, based on NC Bldg Code § 1011.5.4).

Request No. 1: The NCDOI 9/23/22 Interpretation did not explain how stage Steps W constitute a code compliant *Means of Egress* in contradiction to the NCDOI 1/6/22 Interpretation. Stage Steps W include adjacent risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (NC Bldg Code § 1011.5.4). Are stage Steps W code compliant as a *Means of Egress*, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 2: The NCDOI 9/23/22 Interpretation did not render any interpretation as to code compliance regarding back stairway Steps A, G, H, and I, because they were not included in the WCCC 8/02/22 Request for Interpretation (they were deemed non-code compliant in the NCDOI 9/23/22 Interpretation). At least one side of back stairway Steps A, G, H, and I include stair runs with risers that exceed the allowed maximum tolerance from the smallest to the greatest riser height of 3/8 inch (including up to 7/8 inches). Are back stairway Steps A, G, H, and I, code compliant as a *Means of Egress*, as well as for purposes of accessibility, general use by the public, and elsewhere in the 2018 NC Building Code?

Request No. 3: It appears the underlying basis of the WCCC 8/02/22 Request for Interpretation and the resultant NCDOI 9/23/22 Interpretation is only in regards to code compliance of the referenced steps *in the context of Means of Egress*. To the extent any of collective Steps A through W on the Project are not *Means of Egress*, for purposes of accessibility, general use by the public and otherwise, which, if any, risers and

- For back stairway Steps A, G, H and I the allowed maximum tolerance from the smallest to the greatest riser height is 3/8 inch (NC Bldg. Code § 1011.5.4). All of these are not compliant.
- For aisle Steps B through F and J through N, the riser height uniformity tolerance is 3/16 inch. All of these
 are not compliant (NC Bldg. Code § 1029.13.2.2.1).
- For stage Steps O through W, the allowed maximum tolerance from the smallest to the greatest riser height is 3/8 inch (NC Bldg. Code § 1011.5.4).
 - Stage Steps O and P are compliant.
 - Stage Steps Q, R and W are not compliant.
 - Stage Steps S, T and V are not compliant, but could be made compliant if the bottom riser is marked as required by Section 1011.5.4.1.
 - Stage Steps U are not compliant, but could be made compliant if the top riser is marked as required by Section 1011.5.4.1.

On February 4, 2022, WCCC filed a Notice of Appeal of the NCDOI 1/6/22 Interpretation ("WCCC 2/4/22 Appeal") with the NC Building Code Council. As of the date of this RCCC 9/28/22 Request for Interpretation, the NC Building Code Council has not issued its ruling on the WCCC 2/4/22 Appeal.

¹ Background. For some background, on December 16, 2021, Womble Bond Dickinson submitted on behalf of RCCC a Request for Formal Interpretation ("RCCC 12/16/21 Request for Interpretation") of the Rowan County Building Inspection Department's interpretation of the NC State Building Code relating to the as-built construction compliance of steps and stairs at the Rowan Cabarras Community College Outdoor Classroom Phase II project in Salisbury, NC (see <u>Attachment #A to Appendix #2</u>). On January 6, 2022, NCDOI issued its response to RCCC 12/16/21 Request for Interpretation, in which NCDOI concluded ("NCDOI 1/6/22 Interpretation") (see <u>Appendix #2</u>) in substance the following (cross referencing Exhibit D to RCCC 12/16/21 Request for Interpretation - Location Key for Stair Runs labeling on the as-built spot elevation survey all the runs of stairs on the project with letters A-W):

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runs of steps are not code compliant based on Exhibit C to RCCC 12/16/21 Request for Interpretation - Asbuilt spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC (with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams)?²

RCCC appreciates your consideration of the foregoing requests and thanks you in advance for your assistance. RCCC has been attempting to mitigate, complete and use for its intended purposes the subject Project since receiving the NCDOI 1/6/22 Interpretation over eight and a half months ago, but have been delayed by the WCCC 2/4/22 Appeal and subsequent WCCC 8/02/22 Request for Interpretation – both processes of which we acknowledge is within WCCC's rights albeit slow and belated. In this context, we respectfully request that anything NCDOI can do to expedite the processing of this RCCC 9/28/22 Request for Interpretation would be greatly appreciated.

Please do not hesitate to let us know if you need any additional documents or information. Thank you for your prompt attention to this matter.

Sincerely,

WOMBLE BOND DICKINSON (US) LLP

Kenneth R. Michael

KRM: kwb

cc: Terence Friedman, Esq., NCDOJ, counsel for NCDOI, Tfriedman@ncdoj.gov Nathan Childs, Esq., NCDOJ, counsel for NC Building Code Council, nchilds@ncdoj.gov Thomas O'Kelly, Director, Rowan County Bldg Inspections, Thomas.okelly@rowancountync.gov Scott Lowder, Sr.Inspector, Rowan County Bldg Inspections, Jessie Lowder@rowancountyne.gov Jonathan Chamberlain, Chief Officer, RCCC, jonathan.chamberlain@rccc.edu Jim Atkinson, Project Manager, RCCC, jim.atkinson@rccc.edu Mark Henriques, Esq., counsel for RCCC, Mark Henriques@wbd-us.com James Bernier, Jr., Special Deputy Attorney General, NCDOJ, JBernier@ncdoj.gov Michael Ali, NC SCO, michael.ali@doa.nc.gov Jeff Hinkle, NC SCO Monitor, Jeffrey.Hinkle@doa.nc.gov Russell Killen, Esq., counsel for McAdams, russellkillen@parkerpoe.com Brian Darer, Esq., counsel for McAdams, briandarer@parkerpoe.com Nick Lowe, RLA, McAdams, nlowe@mcadamsco.com Robert Attardo, Esq., counsel for Labella, RAttardo@LaBellaPC.com Bryan Badeaux, Esq. Sr. Surety Claims Counsel, Philadelphia Insurance, Bryan Badeaux@phiy.com Jeff Price, Esq., counsel for Philadelphia Insurance, iprice@manierherod.com Andrew Chapin, Esq., counsel for WC Construction, AChapin@cgspllc.com

² Please refer to separate attachment [4] to email transmitting this RCCC 9/28/22 Request for Interpretation for 2MB File of this Exhibit C.

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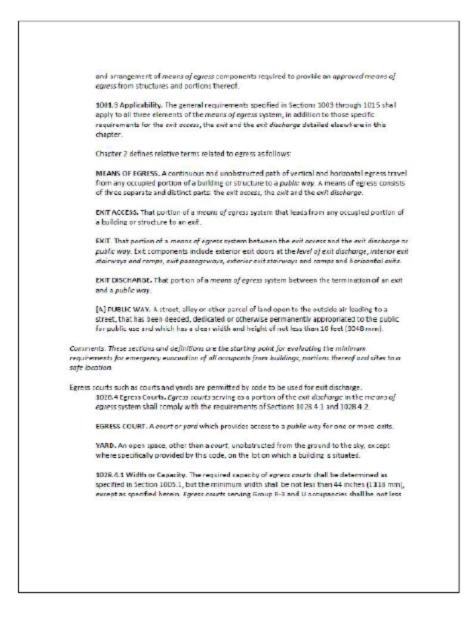
Appendices:3			
Appendix #1			(separate attachment to email) 2 Request for Interpretation Location Key for Stair Runs that identifies the runs of stairs on the projects with letters A-W.
Appendix #2:	NCDOI 1/6/22	Interpretation (separate attachment to email)
	Attachment A	RCCC 12/16/2 Exhibit A	 Request for Interpretation Inspection Worksheet (INSP-420557-2021) by Scott Lowder of the Rowan County Building Inspection Department, dated December 7, 2021;
		Exhibit B	December 15, 2021 11:44 AM clarification email from Thomas O'Kelly, Director of Rowan County Building Inspections;
		Exhibit C	As built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC, with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams; (separate attachment [4] to email transmitting RCCC 9/28/22 Request for Interpretation) and
		Exhibit D	Location Key for Stair Runs labeling on the as-built spot elevation survey all the runs of stairs on the project with letters A-W.
	Attachment B	Amphitheater S	eating Elevation, by McAdams, dated December 28, 2021

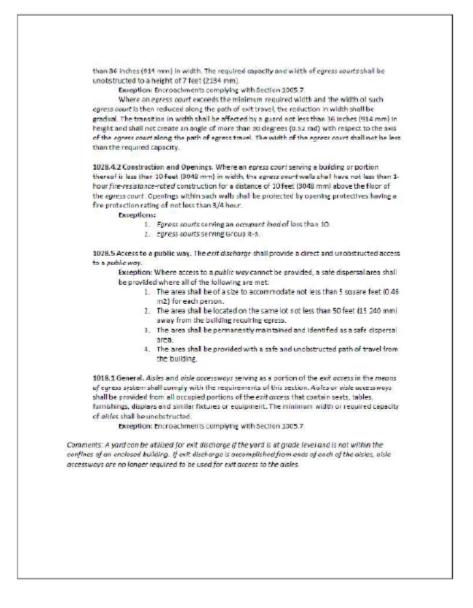
³ Note, most but not all the documents attached to Appendix #1 and Appendix #2 listed below are pasted into this letter on the following pages; however, with my email transmitting this RCCC 9/28/22 Request for Interpretation.

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1	CDOI 9/23/22 Interpretation
	ENGINEERING
1 MY	Tel 919.647.0000 Fax \$11.715.006
SFM	
EPARTMENT OF	MIRE CAUSEY, INSURANCE COMMISSIONER & STATE FIRE MARSHA
URANCE	BRIAN TAYLOR, CHIEF STATE FIRE MARSHA
September 23, 2022	
Nr. Andrew L Chapin	
Connor, Gwyn, Schenck, PLLC	Attorneys at Law
306 East Market Street, Suite	Cine
Greensboro, NC 27401	
P.O. DCK 20744 Greensboro, NC 27420	
Greensbord, NC 27420	
RE: 2018 NC Building Cod	e Section 1001.1 General and 1003.1 Applicability
Mr. Chapin:	
	ur request for formal interpretation dated August 2, 2022, that was
received in NCDOI by email or	August 2, 2022. Your request for formal interpretation states:
"WCCC submits this request a	eaking a formal interpretation in connection with cartain steps/stairs
constructed on the project. Fo	or location reference purposes, please see the attached Exhibit "A,"
	at identifies the runs of stairs on the project with letters A-W.
Request No. 1: Whether the s through N may be considered	teps in the aisles labeled B through F and J
	randscape steps / sarily agreeing that any steps associated with the
	V are considered egress steps that may not comply with
	essly reserves the right to argue otherwise), to the extent
	d egress steps that do not comply with building code, can
the steps be brought into com	pliance with the building code with the use of a terrier?"
Remarke	
	ter are referring to the 2018 edition of the NC Building Code unless
otherwise noted.	
	the request for formal interpretation as well as all supporting information
submitted with the request.	
Code Analysia	
	s or portions thereof shall comply with the provision of Chapter 10 Means
of Egress.	
	ings or portions thereof shall be provided with a means of earess sistem
as required by this ch	apter. The provisions of this chapter shall control the design, construction
	OFFICE OF STATE FIRE MARSHAL
1203 4440 650405	CENTER RALEIGH, NC 27699-1202 WWW.NCDOLCOM/OSEN

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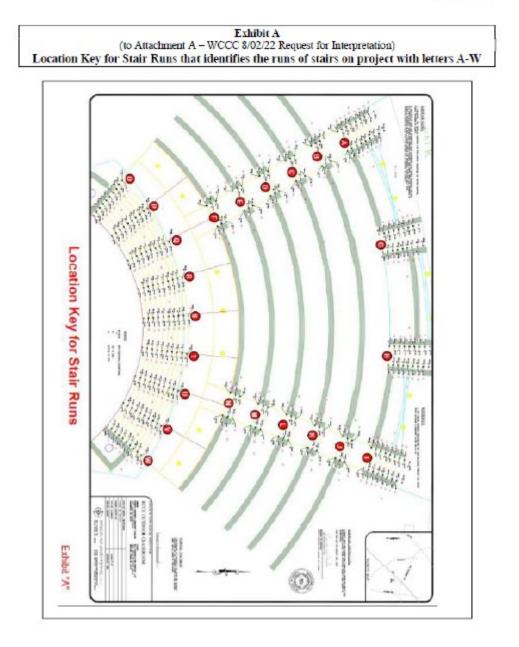
Conclusions: Since a cade-compliant means of egress system is provided via each end of the seating rows to a yard at grade level, stairs 8 thru F and 8 thru N are considered landscape steps. Landscape steps are not required to comply with the means of egress requirements of the 2018 NC Building Code. A codecompliant means of agrees system from the stage is provided at stairs O and W. With the addition of a barrier along the curved portion of the stage at stairs P thru V, earess from the stage is prevented from stars P Chr. V. Since these steps are no longer used for egress, they become decorative steps and are not regulated by the 2018 NC Building code. Please cell or enail if you have comments or questions. Sincerely, David B. Rittling: PF, LECO AP Chief Code Consultant NCDOI-OSPM Engineering & Codes Division File Bridget Herring, Chair - BCC CC: Mark Matheny, Vice-Chair - BCC Michael Ali, Chair, Commercial Super Committee - BCC Terence Friedman, Assistant Altorney General, Insurance Section - NCDOJ

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Attachment A (to Appendix #1 - NCDOI 9/23/22 Interpretation) WCCC 8/02/22 Request for Interpretation

			ATTACHME	ATA	
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D	ear Commesa				
ni Fi	mar interpret mar interpret or location rail bit Runs, that	tor on the rereat ation in connect arance purposes identifies the run	enced project. W ion with certain st c. please say the no of stairs on the	ECC submits the operations constru- attached Exhibit "2 project with letters	
th	Request rough N may I	No. 1: Wheth be considered to	her the steps in the interaction of the interaction	beledal coldin as	Dithrough F and J
th	e suilong coo at such sleps	ed O through W e (WCCC expre- are considered	r are considered e sity resorves the epress steps that	greas steps that n	associated with the say not comply with velse), to the extent building code, can use of a barrier?
	u in advance	nd Expression for your aneitable extrementation	ince. Please ist.	a of the torogoing me know if any fe	requests and thank effer information is
			SINCEREN		
			alla	4-	
44	wch ment		Andrew L	Chapin	

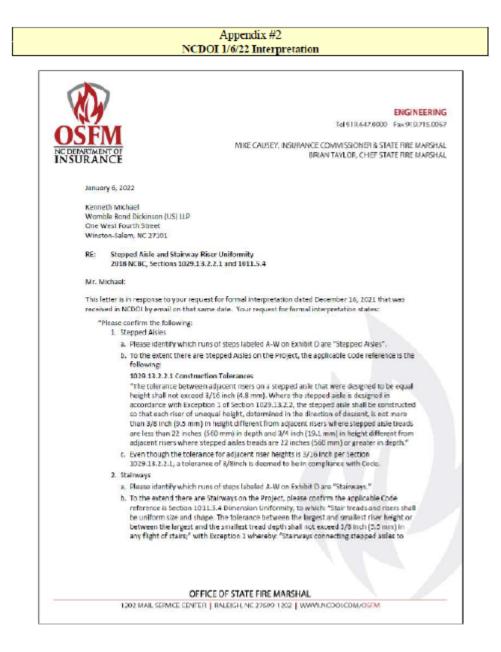
Commissioner Mike Causey September 28, 2021 Page 10 of 25

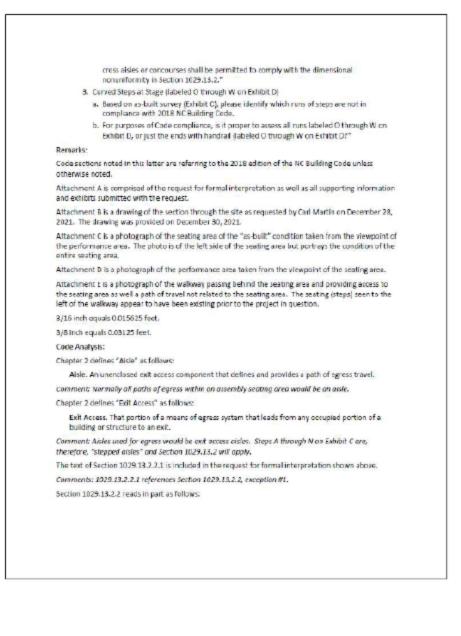


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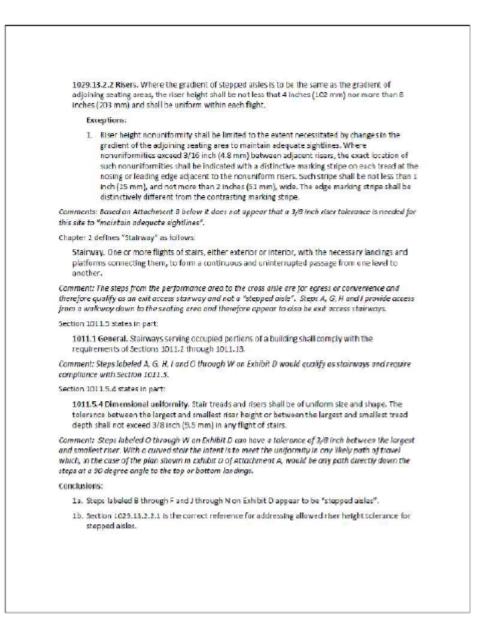
For remainder of attachments to NCDOI 9/23/22 Interpretation, see separate attachment [2] to email transmitting the RCCC 9/28/22 Request for Interpretation.

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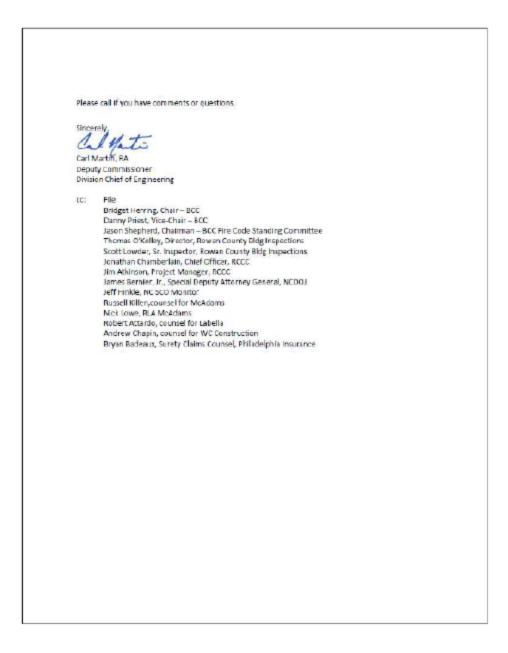
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lc	Section 1023,13.2.2.1 limits the riser height uniformity tolerance for stepped aisles to 3/10 inch unless an increase to 3/8 inch is required to "maintain adequate sightlines" for adjacent seating served by the stepped aisle. Attachment 8 below does not demonstrate a need for a 3/8 inch tolerance to maintain adequate sightlines for adjacent seating; therefore, the uniformity tolerance is limited by Section 1029,13.1.2.1 to 3/16 inch for the plan shown in Exhibit C.
2a	steps labeled to through twich this to appear to be stainways providing egress and convenience for the performance area. Steps labeled A, G, H and I appear to be stainways providing access from an adjacent walkway to the seating area.
2b	. Section 1011.5.4 is the applicable code sector for steps labeled A, G, H, I and O through W on Exhibit D. The allowed maximum tolerance from the smallest to the greatest riser height is 3/8 Inch.
3.	 Any riser difference greater than 0.03125 feet (3/8 inch) of the smallest to the largest riser is not compliant with the applicable code requirement (ref. Section 1011.5.4).
	Steps O are in compliance.
	Steps Plare in compliance.
	Steps O are not compliant because the difference in riser height from 0.50 to 0.56 is 0.06 feet which exceeds the allowed 0.03125 feet.
	Steps R are not compliant because the difference in riser height from 0.49 to 0.54 is 0.05 feet which exceeds the allowed 0.03125 feet.
	Steps S are not compliant because the difference in riser height from 0.51 to 0.57 is 0.06 feet which exceeds the allowed 0.08125 feet.
	Steps T are not compliant because the difference in riser height from 0.49 to 0.56 is 0.07 feet which exceeds the allowed 0.03125 feet
	Steps U are not compliant because the difference in riser height from 0.50 to 0.54 is 0.04 feet which exceeds the allowed 0.08125 feet.
	Steps V are not compliant because the difference in riser height from 0.49 to 0.53 is 0.04 feet which exceeds the allowed 0.08125 feet.
	Steps W are not compliant because the difference in riser height from 0.50 to 0.54 is 0.04 feet which exceeds the allowed 0.08125 feet.
	Summary:
	 Steps O and P comply with Section 1011.5.4.
	Steps 0 thru W do not comply with Section 1011.5.4. Steps S, T and V could be made compliant if the bottom riser is marked as required by
	 Steps U could be made compliant if the top riser is marked as required by Section 1011.5.4.1.
36	. Because steps O through W are all available to be traversed, Steps O through W must all comply with Section 1011 – Stairways.

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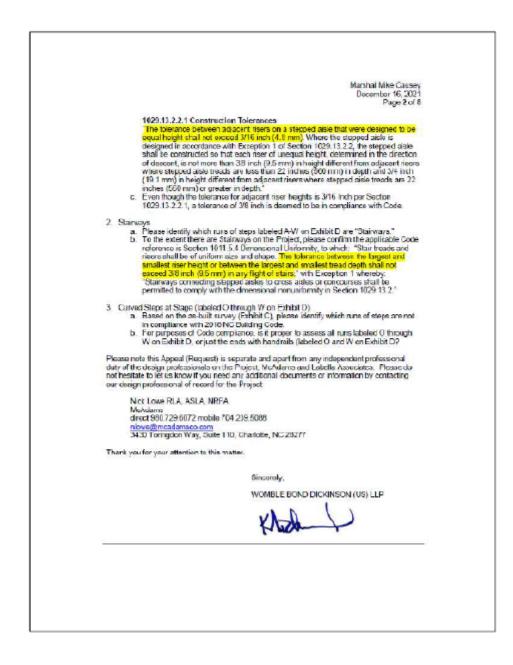


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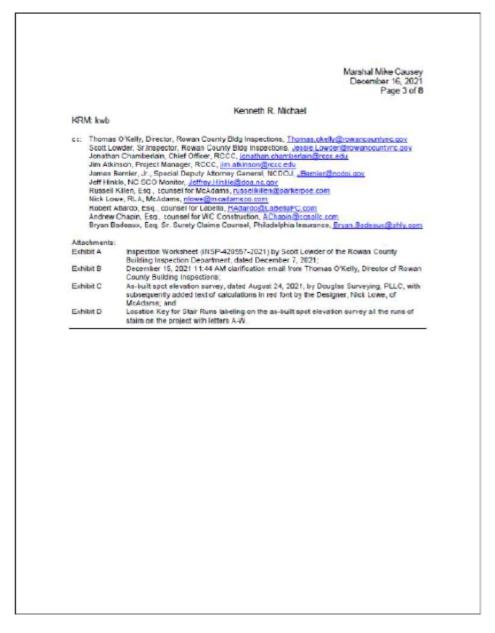
Attachment A (to Appendix #2 - NCDOI 1/6/22 Interpretation) RCCC 12/16/21 Request for Interpretation

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Append (Request) for Formal Interpretation [NC: Gen. State, § 14001127] Bauen Cabarras Community College CL River Casesnorn Please [] 1331 S. Jake Alexander Biol, Salabary, NC Commissioner Causey; Workle Bend Dickingen in coursel for Rowan Cabarras Community College. Pursuant to NLC. Gen. State, § 160D-1127, Revain Cabarras Community College. Pursuant to NLC. Gen. State, § 160D-1127, Revain Cabarras Community College. Pursuant to NLC. Gen. State, § 160D-1127, Revain Cabarras Community College. Pursuant to NLC. Gen. State, § 160D-1127, Revain Cabarras Community College. Pursuant to NLC. Gen. State, § 160D-1127, Revain Cabarras Community College. Pursuant to NLC. Gen. State, § 160D-1127, Revain Cabarras Community College. Pursuant to Ruce State Salabary, NC (170):e17. Please field attached the following law documents: Esthold A Paspedian Werkaleset (NSP-420557-2021) by Scott Lowder of Fac Rowan County Ruiding Inspection Department, caled December 7, 3021. Esthold B December 5, 2021 1144 AV Calification enail from Thomse OVely, Drector of Rowan County Ruiding Inspection: Thomse OVely, Drector of Rowan County Ruiding Inspection Sey for Star Muns Roberty On the Secont spot devisionsames and herrars of States on the project with Effes 549 The Project is to comply with 2018 NC Bade Building Code. The Owner is commendiated the advance and the report of the Rowan cabarra states and states on the project with effes 549 The Project is to comply with 2018 NC Bade Building Code. The Owner is commendiated the advance and the Rowan cabarra states and states on the project with effes 549 The Project is to comply with 2018 NC Bade Building Code. The Owner is commendiated the advance and the Rowan cabarra states and states on the project with advance and the Rowane advance and with the Rowane cabarra between advance states on the project with advance and the Rowane advance advance states and states on the project with advance and there advance	Raleigh, N	D 271/99-1201	Direct Deal: 336-721-3644
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Exhibit A (to Attachment A - RCCC 12/16/21 Request for Interpretation) Inspection Worksheet (INSP-420557-2021) by Scott Lowder of the Rowan County Building Inspection Department, dated December 7, 2021

Phone: (704) 215-	uliding inspections 402 No 8619 Fax: (704) 215-7986	rth Waln Stre	et Suite 207 Seila	bery, NG	
Case Number:	CCMM-04-20-073118		Case Nodule:	Permit	
Inspection Date:	Tue Dec 7, 2021		Inspection Status:		
Inspector	Lowder, Scott		Inspection Type:	Bldg Final - Fes	
Job Address:	1333 SJAKE ALEKANDER Salsbury, NC, 28146	BWI LVL 1	Parcel Number:	063 068	
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Exhibit B

(to Attachment A - RCCC 12/16/21 Request for Interpretation) December 15, 2021 11:44 AM clarification email from Thomas O'Kelly, Director of Rowan County Building Inspections

From: O'Kelly, Thomas < Thomas O'Kelly@rowancountync.gov> Sent: Wednesday, December 15, 2021 11:44 AM To: Lowe, Nick <nlowe@mcadamsco.com> Cc: Lowder, Jessie Scott < Jessie Lowder@rowancountync.gov>; Jim Atkinson <jim.atkinson@rccc.edu>; Danny Carpenter <danny.carpenter@rccc.edu>; David Malcolm <malcolm@mcadamsco.com>; Samuel Bush <samuel@wcconstructionco.com>; William Cockerham <william@wcconstructionco.com> Subject: RE: RCCC OLC Phase II

Gentlemen

Good morning I hope all is well. After several correspondences email and phone with you all concerning the riser heights at the RCCC Outdoor Learning Center we have received from Land Surveyor Russell Douglas a more accurate measurement of the stair riser which show risers exceeding the tolerances of 3/8". Rowan County has field measured with tape measures and determined the stairs exceed 3/8" if you feel this Rowan County inspection is incorrect you may contact the Department of Insurance Building Division for a formal interpretation.



ROWAN Thomas O'Kelly | Director **Rowan County Building Inspections** COUNTY 402 N. Main St. Salisbury, NC 28144 NORTH CAROLINA [p] 704-216-8612 [c] 704-202-4132 [f] 704-216-7986 Be an original. Thomas okelly@rowancountync.gov www.rowancountync.gov

From: Nick Lowe <<u>nlowe@mcadamsco.com</u>> Sent: Tuesday, December 14, 2021 3:59 PM To: O'Kelly, Thomas < Thomas O'Kelly@rowancountync.gov> Cc: Lowder, Jessie Scott < Jessie Lowder@rowancountync.gov>; Jim Atkinson <jim.atkinson@rccc.edu>; Danny Carpenter <danny.carpenter@rccc.edu>; David Malcolm <malcolm@mcadamsco.com>; Samuel Bush <samuel@wcconstructionco.com>; William Cockerham <william@wcconstructionco.com> Subject: RCCC OLC Phase II

Thomas

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I hope you have been doing well. Upon review of the most recent inspection report dated December 7th, 2021 for the above mentioned project, we would like to clarify whether particular sets of stairs are approved or disapproved or whether there was a general determination that the stairs do not meet code. Also, I understand that you may need a copy of the survey elevations for the stairs that were taken by WCCC. I have attached that for your convenience.

Thanks,



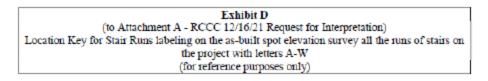
E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties by an authorized state official. (NCGS.Ch.132)

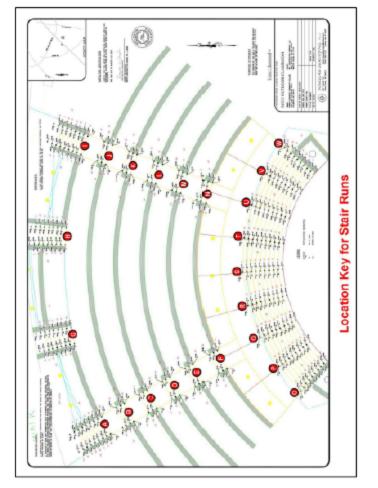
Commissioner Mike Causey September 28, 2021 Page 23 of 25

Exhibit C (to Attachment A - RCCC 12/16/21 Request for Interpretation) As-built spot elevation survey, dated August 24, 2021, by Douglas Surveying, PLLC, with subsequently added text of calculations in red font by the Designer, Nick Lowe, of McAdams

See separate attachment [4] to email transmitting the RCCC 9/28/22 Request for Interpretation for 2MB File of this Exhibit C.

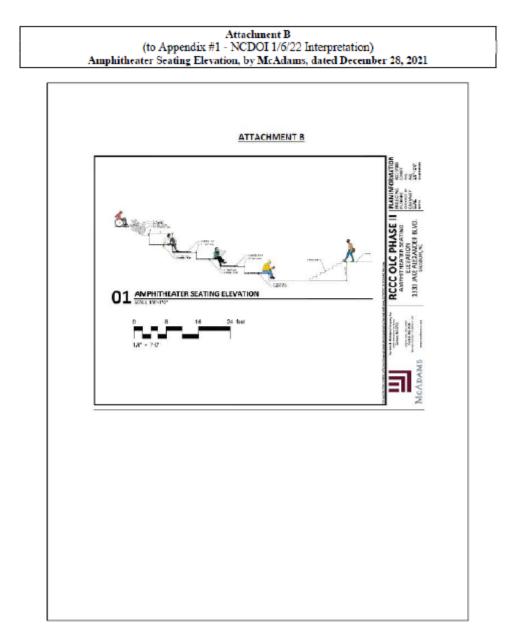
Commissioner Mike Causey September 28, 2021 Page 24 of 25

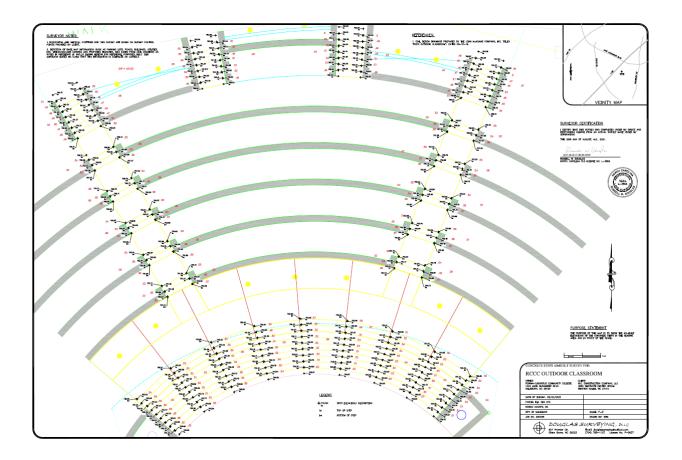




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[External] RE: RESUBMITTED FOR COMPLETE RESPONSE (11.03.22) - Request for Formal Interpretation by Rowan Cabarrus Community College

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