



**CHARLES D. BAKER**  
GOVERNOR

**KARYN E. POLITO**  
LIEUTENANT GOVERNOR

**MIKE KENNEALY**  
SECRETARY OF HOUSING AND  
ECONOMIC DEVELOPMENT

**Commonwealth of Massachusetts**  
**Division of Professional Licensure**  
**Office of Public Safety and Inspections**  
1000 Washington Street, Suite 710  
Boston, Massachusetts 02118

**EDWARD A. PALLESCHI**  
UNDERSECRETARY OF CONSUMER  
AFFAIRS AND BUSINESS  
REGULATION

**DIANE M. SYMONDS**  
COMMISSIONER, DIVISION OF  
PROFESSIONAL LICENSURE

**BOARD OF BUILDING REGULATIONS AND STANDARDS**

**Structural Advisory Committee (SAC) Meeting Minutes**

**April 25, 2019**

**Simpson Gumpertz & Heger Offices**  
41 Seyon Street, Building 1, Suite 500  
Waltham, MA 02453

**Roll Call, by SAC Chair:**

Joe Zona, Chair	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent	Nicholas Mariani	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent
Vacancy	<input type="checkbox"/> present	<input checked="" type="checkbox"/> absent	Richard A. Henige	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent
Dominic J. Kelly	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent	Richard Crowell	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent
Gary McClean	<input type="checkbox"/> present	<input checked="" type="checkbox"/> absent	Michael Fillion	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent
Mehul Dhruv	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent	Robert Anderson*	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent
Michael Berry	<input checked="" type="checkbox"/> present	<input type="checkbox"/> absent			

\* Cesar I. Lastra participated as the designee for OPSI Chief of Inspections - Building & Engineering, Robert Anderson.

**General notes on format of these minutes**

- *These minutes represent general points discussed during the meeting. The minutes are not intended to be a verbatim account of discussions.*
- *Agenda topics as numbered may be in the same order as they appear on the meeting agenda.*
- *The meeting agenda is listed as **EXHIBIT A**; others are listed sequentially as addresses during the meeting.*

**Meeting Agenda**

- 1. Approve: Minutes to the March 7, 2019 Structural Advisory Committee meeting.**  
The draft minutes from the March 7, 2019 Structural Advisory Committee meeting were reviewed. (EXHIBIT B) Motion to approve the minutes made by Richard Henige, seconded by Michael Berry; motion passes.
- 2. Discuss: Tenth Edition of the Massachusetts Building Code based on the 2018 International Codes.**
  - **Chapter 16: Structural Design Amendments**
    - The Chair noted that all the work is done in Chapter 16, but the large table is not in final form. Richard Henige acknowledged that there are a few corrections that need to be made.



- Mr. Henige stated that he reviewed AISC 341-10 and AISC 341-16, and noted that eccentricities are included, therefore no longer necessary. The Chair will confirm on the draft provisions.
- **Chapter 19: Concrete Amendments**
  - The Chair stated that there are no required changes.
- **Chapter 21: Masonry Amendments**
  - Nicholas Mariani stated that no additional changes were made to the handout that was provided to the SAC members on March 7, 2019. (EXHIBIT C)
  - Mr. Mariani provided a handout to the SAC members with two responses from a webinar on designing lintels. (EXHIBIT D) Mr. Mariani inquired on how to calculate the deflection of lintels and the criteria for  $l/600$ . The presenter stated that deflection would not be covered in the webinar, but Mr. Mariani received a response regarding  $l/600$ . Mr. Mariani was informed that the criteria for  $l/600$  only applies to vertical deflections. Based on these responses, Mr. Mariani has no further comments on deflection and the matter is up to the design engineer.
  - Mr. Mariani researched the default values for existing masonry buildings and found that the information was listed in the amendments to the 8<sup>th</sup> edition of 780 CMR. Richard Crosswell stated that, by not having this information, the engineer is forced to perform the testing. The Chair commended Mr. Mariani for his efforts and recommended that the values correspond to the condition of the masonry. Discussion on the matter ensued amongst the members. The Chair acknowledged that there is a consensus amongst the members to put the information back in to 780 CMR and asked Mr. Mariani to work with Michael Fillion to compare notes for proposal and discussion at the next meeting.
- **Chapter 22: Steel Amendments**
  - The Chair stated that paragraph numbers must be aligned.
- **Chapter 23: Wood Amendments**
  - The Chair postponed the discussion as Gary McClean was not present at the meeting to address the topic. The Chair added that he would reach out to Mr. McClean for further information on the matter.
- **Chapter 34: Existing Building Code Amendments**
  - Michael Fillion provided a handout with updated provisions to all the SAC members for discussion. (EXHIBIT E) Clarification language was added to the definition of "Substantial Structural Alteration". Mr. Fillion suggested adding the following language:

*For the purpose of this definition, a structural element shall be considered altered if is required to be replaced or modified.*

Dominic Kelly questioned the proposed language as it may confuse alterations and repairs. Discussion on the matter ensued amongst the members. The Chair recommended that the proposed definition language be further reviewed to clarify that an alteration is not a repair.

- Mr. Fillion added a definition for "Roof Covering" as it is in the IBC and not on the IEBC.

- Mr. Fillion added clarification language under 302.9 where exception number 2 shall not apply where insulation is added to the roof assembly. Mr. Croswell noted that the definition of “Roof Covering” lists weather resistant covering which can be interpreted as insulation.

**3. Discuss: Other matters not reasonably anticipated 48 hours in advance of meeting.**

- The SAC members inquired on the process of filling vacancies and adding new members to the advisory committee. Cesar I. Lastra stated that members may submit written recommendations to the BBRS, via OPSI staff, for their review. The Chair added that the SAC would benefit from the contributions of newer members.

**4. Approve: Adjourning the meeting.**

A motion to adjourn was made by Dominic J. Kelly, seconded by Cesar I. Lastra; motion passed by unanimous vote, meeting adjourned at 10:43 a.m.

**EXHIBITS:**

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- A. Meeting Agenda.
- B. Draft minutes from the March 7, 2019 Structural Advisory Committee meeting.
- C. Proposed changes to the 9<sup>th</sup> edition of 780 CMR Chapter 21: Masonry by Nicholas Mariani.
- D. Responses from webinar on lintels design in masonry walls and existing unreinforced masonry Massachusetts amendments to the 8<sup>th</sup> edition by Nicholas Mariani.
- E. Proposed changes to the 9<sup>th</sup> edition of 780 CMR Chapter 34: Existing Building Code by Michael Fillion.