AGENDA
DC-20: Building Design Committee
Tuesday, October 20, 2020
12:00 p.m. - 4:00 p.m. Eastern
Virtual Convention Meeting via Zoom

Voting Members Present (X of 13)

Carol Hayek - Chair
CCL

Bryan Allred
Seneca Structural Engineering Inc.

Don Kline
Kline Engineering and Consulting, LLC

Tim Christie
Post-Tensioning Institute Representative

Asit Baxi
Baxi Engineering Inc.

Frank Malits
Cagley and Associates Inc.

Hamid Ahmady
Suncoast Post-Tension Ltd

Martin A Cuadra
Uzun and Case, LLC

Martin Maingot - Secretary
SCA Consulting Engineers

Rashid Ahmed
Walker Consultants

Jonathan Hirsch
Bentley Systems, Inc.

Eric Ober
SGH

Thomas Kang
Seoul National University

Zuming Xia
Structural Technologies, Inc

Associate Members Present

Joseph Ales
Walter P Moore and Assoc Inc

Spencer Lee
ADAPT Structural Concrete Software

Srinivasan Neelamegam
CCL USA

Ryan Bonniwell
Ericksen Roed and Associates

Rafael Machado
Ellinwood Machado, LLC

Otto Schwarz
Ryan Biggs Clark Davis Engineering and Surveying

Kyle Boyd
Prescient

Carine Magalhaes Leys
PT Structures

Roberto Suarez
Martinmartin

Anantha Chittur
BASE

Marcos Martinez
Stanley D. Lindsey & Associates

Todd Whisenhunt
Thornton Tomasetti

Michael Hopper
Leslie E. Robertson Associates

Siva Munuswamy
Company

Mark Yerges
CVM Engineers, Inc.

Chad Andrew Kong
Strand Systems Engineering

Visitors
### ACTION ITEMS FROM LAST / THIS MEETING

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| **A. General** | A.1 Call to order at XX:XX pm ET  
A.2 Participant introductions  
A.3 No changes  
A.4 Policy reminder included with agenda |
| **B. Agenda & Minutes** | B.1  
B.2 Vote on approval of Minutes from 5/26/20 Web Meeting  
Motion / Second: Name / Name  
Result: X-X-X (Y-N-A) |
| **C. Actions Taken Between Meetings** | C.1 None  
C.2 Web meetings were held by the Dual Banded TG on 6/29/20, 9/14/20 and 10/7/20 |
| **1. Action Item 1: (Design Webinar Modules)** | 1.1 Recordings for all 10 modules concluded in January, they were reviewed by other PTI Staff and then forwarded to the EDC-130 Education Committee for review. Review still in progress. Feedback received on some modules that will need to be discussed by DC-20 to revise slides/scripts and re-record some modules. |
| **2. Action Item 2: (PTI DC20.2-88, Restraint Cracks and their Mitigation)** | 2.1 Ballot-TAB-2006 (DC20.2-XX Restraint Cracks and their Mitigation) closed 9/25/20, passed and now must go through resolution via TAB web meetings as soon as possible.  
2.2 Document publishing goal before the end of 2020 |
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<td><strong>before end of 2020</strong></td>
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<td><strong>3. Action Item 3: (DC20.7-01, Design, Construction and Maintenance of CIP PT Concrete Parking Structures)</strong>&lt;br&gt;3.1 On Temporary Hold&lt;br&gt;3.2 Form a Joint Committee Task Group</td>
<td>3.1 This is on-hold until other DC-20 publication priorities have been cleared. This document will likely require a Joint Committee effort (DC-20 and DC-25) to update it, and DC-25 will lead the effort.&lt;br&gt;3.2 Most likely a Task Group consisting of members from each committee will be formed. Update of this document remains a PTI Board priority. It will be based on ACI 318-19 and latest ACI 362. May decide to separate Design/Construction from Maintenance.&lt;br&gt;Need to confirm joint effort and form a task group. Goal is to publish in 2021.</td>
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<td><strong>4. Action Item 4: (ACI 318 Reference – New PTI publication)</strong>&lt;br&gt;4.1 Update on status</td>
<td>4.1 Update status. Creation of ACI 320 influences this. Still defining what will be in 320 versus 318. Asit article on changes from 318-14 to 318-19 will be published in the next PTI Journal.&lt;br&gt;Carol and Don to discuss new ACI/PTI 320 as well as ACI 318-T and the new TAB TG focused on serving as the conduit for code changes and code development advanced from PTI.</td>
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<td><strong>5. Action Item 5: (PT Manual 7th Edition)</strong>&lt;br&gt;5.1 Review progress&lt;br&gt;5.2 Plan for review process</td>
<td>5.1 Tim to provide update on TAB review ballot progress to date; PTI major priority with monthly balloting cycle&lt;br&gt;5.2 PT Manual 7th Edition must publish no later than Q2 2021. The list below represents a summary of the “DC-20 reviewers” responsibility matrix in item 5.1 with remaining Chapters to be released for review&lt;br&gt;&lt;br&gt;&lt;strong&gt;TAB ballot complete and publishing in progress:&lt;/strong&gt;&lt;br&gt;Chapter 9: PT Concrete Floors; Hamid, Carine&lt;br&gt;Chapter 23: BIM; Carine, Srini, Rob&lt;br&gt;Chapter 5: Analysis and Design Fundamentals; Martin C, Jonathan Hamid and Siva&lt;br&gt;Chapter 17: Prestressed Concrete Under Dynamic Loads and Fatigue; Hayek, Schokker, Hirsch&lt;br&gt;&lt;br&gt;&lt;strong&gt;TAB ballot complete:&lt;/strong&gt;&lt;br&gt;Chapter 10: PT Parking Structures; Otto, Martin C, Bryan, and Eric&lt;br&gt;Chapter 18: Fire resistance – Martin C; CRSI to potentially assist with review&lt;br&gt;Chapter 19: Durability (buildings &amp; bridges); Martin M, Kyle B, Ralph L&lt;br&gt;Chapter 8: Seismic Design of PT Concrete Structures; Martin M, Bryan Allred, Kyle B</td>
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| **Chapter 25: Sustainability**; Martin M, Srinivasa | TAB review in progress:  
Chapter 7: Design examples; Siva and Eric. Anantha and Chad also volunteered.  
Chapter 6: Detailing and Construction Procedures for Buildings; Zuming, Mark, Rashid; (Brian Allred volunteered to review)  
**Still due from authors:**  
Chapter 24: Anchorage Zone Design; Zuming, Siva;  
Chapter 16: Design of Prestressed Barrier Cable Systems; reviewers TBD |
| **6. Action Item 6: (Dual-Banded PT Layout)** | 6.1 T4 specimen cast 10/1/20. T4 is dual banded with fibers. Preliminary draft paper comparing T1 and T3 has been received from VT, but further progress on it won’t likely come until after T4 testing.  
6.2 Ballot TAB-1907-DC20-TN-Dual Banded PT closed on 9/18/19. 3 Affirmative, 3 Affirmative with Comments, 1 Negative, 1 Abstain and 4 Not Returned. Will hold TAB meeting resolution until after T3 testing summary is complete. Want both to coincide and speak the same language.  
Web meetings were held by the Dual Banded TG on 6/29/20, 9/14/20 and 10/7/20. |
<p>| <strong>7. Action Item 7: (Temperature Tendons)</strong> | 7.1 Final draft of Tech Note is nearly complete and will be submitted for TAB ballot as soon as possible. Tim to finish. |
| <strong>8. Action Item 8: (Structural Detailing for PT Buildings)</strong> | 8.1 Tim is in the process of procuring details from PT suppliers in different geographical areas/regions to educate SEs on how best to represent PT on their design drawings and thus create a best practice type document. Tim has had direct discussions with multiple PT suppliers to obtain their input on problematic details. Ultimate publication goal is now more realistically 2021. |
| <strong>9. Action Item 9: (Update from DC-20A BIM Subcommittee)</strong> | 9.1 Subcommittee Chair Malits to provide a brief update on current work of DC-20A. |
| <strong>10. Action Item 10: (FAQ or Tech Note, two-way PT slabs, exclusion of restraint)</strong> | 10.1 Jonathan has not started this document yet. Maybe revisit this at 318-T. Place it on hold. |</p>
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<td><strong>effects in the min 125 psi calculation</strong></td>
<td>10.1 Document update</td>
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<tr>
<td><strong>11. Action Item 11:</strong> (Restrained vs. Unrestrained FAQ)</td>
<td>11.1 Update on this FAQ?</td>
</tr>
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<td>11.1 Document update</td>
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<tr>
<td><strong>D. New Business</strong></td>
<td>D.1 List of documents for review:</td>
</tr>
<tr>
<td>D.1 Review of documents and identification of those in need of revision</td>
<td>PTI DC20.2-88 Restraint Cracks and their Mitigation in Unbonded Post-Tensioned Building Structures (1&lt;sup&gt;st&lt;/sup&gt; priority, revision in progress)</td>
</tr>
<tr>
<td>D.2 FAQ for practical vs. ACI 318 provisions for column punching shear</td>
<td>PTI DC20.7-01 Design, Construction and Maintenance of Cast-in-Place Post-Tensioned Concrete Parking Structures (2&lt;sup&gt;nd&lt;/sup&gt; priority)</td>
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<td>integrity reinforcement in PT slabs</td>
<td>PTI DC20.6-99 Design Fundamentals of Post-Tensioned Concrete Floors (3&lt;sup&gt;rd&lt;/sup&gt; priority)</td>
</tr>
<tr>
<td>D.3 FAQ for ACI 318 8.6.2 provision for minimum P/A and bonded reinforcement</td>
<td>PTI DC20.8-04 Design of Post-Tensioned Slabs Using Unbonded Tendons (4&lt;sup&gt;th&lt;/sup&gt; priority)</td>
</tr>
<tr>
<td>D.5 2018 IBC SEAOC Structural/Seismic Design Manual Example 4</td>
<td>PTI DC20.1-87 Strength and Behavior of Closely Spaced Post-Tensioned Mono-strand Anchorages</td>
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<td>PTI DC20.3-89 Structural Integrity of Building Constructed with Unbonded Tendons</td>
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<td>PTI DC20.4-90 Earthquake Performance of Unbonded Post-Tensioned Buildings</td>
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<td>PTI DC20.5-90 Evaluation of the Condition of a Post-Tensioned Concrete Parking Structure After 15 Years of Service</td>
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<td>D.3 Discuss need for FAQ document to address this issue</td>
<td>D.4 There is a TAB Task Group that is reviewing and evaluating this issue</td>
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<td>D.5</td>
<td>Bryan Allred to discuss concerns he and Dirk Bondy have regarding this document and the desire for a PTI response to dispute it.</td>
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<td>E. Next Meeting</td>
<td></td>
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<td>2021 PTI Convention, Weston Indianapolis, IN April 18-21, 2021</td>
<td>E.1</td>
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<tr>
<td>Web Meetings:</td>
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<tr>
<td>F. Adjourn</td>
<td>Meeting adjourned at X:XX pm ET</td>
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**AGENDA / MEETING EXHIBITS**

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<td>Roster / A.4</td>
<td>Sign-In Sheet / PTI Anti-Trust Policy</td>
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<tr>
<td>B.2</td>
<td>200526 DC-20 Minutes 05-26-20 Unapproved.pdf</td>
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At a meeting on October 8, 1980, the Board of Directors first discussed the Institute's status and policies regarding compliance with antitrust laws. After review of both the internal and external compliance procedures, the following resolution was approved:

"The staff, officers, directors and members of the Post-Tensioning Institute are reminded that they are required to comply with the spirit and specific requirements of the antitrust laws on all activities within the scope of, and related to, the official functions of PTI. Further, this restated position, along with appropriate explanatory material, should be placed in all meeting folders/books periodically, beginning with the 8th of October meeting of PTI."

On July 24, 2012 and again on October 7, 2015, the Executive Committee authorized Legal Counsel to review and update this Policy Statement in the perspective of the Department of Justice Business Review Letter of July 30, 1997 and current case law. As a continuing guide for your participation in PTI's meetings, please review and continue to adhere to the following "Legal Limitation on Discussions at PTI Meetings."

LEGAL LIMITATION ON DISCUSSIONS AT PTI MEETINGS AND EVENTS

A free exchange of ideas on matters of mutual interest to the members is necessary for the success of all meetings. Indeed, such an exchange of views is essential to the successful operation of every trade association and the law specifically allows legitimate exchange of views pertaining to, e.g., quality control, safety, building design and construction integrity, etc.

It is not the purpose of this memorandum to discourage the exploration in depth of any matters of legitimate concern to meeting participants. Nevertheless, to ignore certain antitrust ground rules, either through ignorance or otherwise, is to create a civil and criminal hazard businessmen simply cannot afford.

It is for these reasons that PTI provides you with a reminder that certain areas of formal and informal communication between competitors or between manufacturers and their suppliers and customers must be avoided, as posing potential antitrust problems.

The Sherman Antitrust Act, the Clayton Act, the Federal Trade Commission Act, and the Robinson-Patman Act comprise the basic federal antitrust laws, which set forth the broad areas of conduct considered illegal as restraints of trade. In general, agreements or understandings between competitors that operate as an impediment to free and open competition are forbidden. Federal antitrust prohibitions forbid any "agreement or understanding...to substantially lessen competition or tend to create a monopoly in any line of commerce." An important point to keep in mind is that communications and discussions between competitors or between sellers and customers, about matters which may be considered anti-competitive, often comprise the evidence from which courts infer antitrust violations. It is the policy of the Post-Tensioning Institute that such agreements, understandings or communications shall not be tolerated at any formal or informal meetings or social events of the Institute.

The general prohibitions contained in the federal antitrust laws, have been particularized in the form of a series of consent decrees, originally entered against a number of member companies of various trade associations and the associations themselves. It is important to note that these laws not only apply to PTI members, but also to PTI itself. Often trade associations have been and are presently co-defendants in cases brought by the Justice Department and the Federal Trade Commission ("FTC"). Recently, the FTC has stated: "Because trade associations are by their nature collaborations among competitors, the Commission and courts have long been concerned with anti-competitive restraints imposed by such organizations under the guise of codes of conduct. Competing for customers, cutting prices, and recruiting employees are hallmarks of vigorous competition. Agreements among competitors not to engage in these activities injure consumers by increasing prices and reducing quality and choice.” Similar “codes” or policies and requirements that encourage directly or indirectly members’ unlawful activity are strictly forbidden by PTI in the course of its business with its members.
SPECIFIC EXAMPLES OF ACTIVITIES AND PRACTICES PROHIBITED
AT ALL PTI MEETINGS AND EVENTS:

Included in activities and practices which are forbidden, and are contrary to the policy of the Institute, both under the general antitrust laws and the consent decrees, subject to the said Business Review Letter, are the following:

- Agreeing to allocate markets, customers or suppliers among competitors, classify certain customers or suppliers being entitled to preferential treatment by manufacturers, and establish geographic trading areas.

- Participating in any plan designed to induce any manufacturer or distributor to sell or refrain from selling, or discriminate in favor of, or against any particular customer or class of customers.

- Agreeing in any manner to fix or otherwise establish bids, prices (including price increases, decreases, standardization or stabilization), profits, costs, contract terms affecting price (such as discounts and credit terms), etc. because, e.g. prices were too low, with the exception of certain resale pricing agreements between manufacturers and retailers or distributors.

- Agreeing in any manner to limit or restrict the quality of products to be produced (e.g., restrictions on selling coated strand to certain customers).

- Participating in any plan which has the effect of discriminating against, or excluding competitors, suppliers or customers.

These examples are provided to guide you in your discussions during formal and informal PTI meetings and social events. If the occasion arises, more specific advice will be provided by legal counsel, who is required by Article IV, Section 7 of the PTI By-Laws to be present at all meetings of the Board of Directors and the Executive Committee.
POST-TENSIONING INSTITUTE

MINUTES
DC-20: Building Design Committee
Tuesday, May 26, 2020
12:00 p.m. - 2:00 p.m. (CT)
Virtual Meeting via GoToMeeting

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| **A. General** | | A.1 Call to order at 12:03 CT  
A.2 |  
A.3 Raif Leistikow is no longer an Associate Member  
A.4 Policy reminder included with agenda |
| **B. Agenda & Minutes** | | B.1 No changes  
B.2 |  
Vote on approval of Minutes from 10/3/19 Santa Fe meeting  
Motion / Second: Martin C. / Rashid  
Result: 8-0-0 (Y-N-A) |
| **C. Actions Taken Between Meetings** | | C.1 Ballot DC-20-1901 (DC20.2-20 Restraint Cracks and their Mitigation) closed 11/21/19  
Ballot DC-20-1902 (DC20.2-20 Restraint Cracks and their Mitigation) closed 1/31/20  
C.2 Web meetings were held on 3/11/20, 3/24/20, 3/30/20, 4/21/20, 4/28/20, 5/6/20 and 5/13/20 to resolve the RTS ballots noted above |
<p>| <strong>1. Action Item 1: (Design Webinar Modules)</strong> | | 1.1 Recordings for all 10 modules concluded in January, they were reviewed by other PTI Staff and then forwarded to the EDC-130 Education Committee for review |
| <strong>2. Action Item 2: (PTI DC20.2-88, Restraint Cracks and their Mitigation)</strong> | | 2.1 Ballot DC-20-1901 (DC20.2-20 Restraint Cracks and their Mitigation) closed 11/21/19 and it has been going through resolution via web meetings in March, April, and May. This ballot included these chapters: |</p>
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| 2.2 Need to publish updated document as DC20.2-20 by Fall 2020            | - Chapter 1: Introduction, Scope and Limitation  
- Chapter 2: Causes and Categorization of Cracking  
- Chapter 3: Crack Mitigation  
- Chapter 4: Structural Evaluation of Cracks  
- Chapter 5: Crack Repair  
- Chapter 6: Computation of Shortening Movement  
- Chapter 8: Conclusions and Recommendations  
- Chapter 9: References  

Ballot resolution for Chapter 8 and the References occurred during this DC-20 committee meeting.  

Ballot DC-20-1902 (DC20.2-20 Restraint Cracks and their Mitigation) closed 1/31/20 and it has been going through resolution via web meetings in May. This ballot included this chapter:  

- Chapter 7: Consideration of Shortening in Finite Element  

2.2 The full resolved and edited document will be sent back out to DC-20 members for a brief courtesy review (but not re-ballot) in June, and then the document will be forwarded to TAB for ballot in June.  

2.2.1 Document must be published before the end of 2020  

| 3. Action Item 3: (DC20.7-01, Design, Construction and Maintenance of CIP PT Concrete Parking Structures) | 3.1 This is on hold until other DC-20 publication priorities have been cleared. This document will likely require a Joint Committee effort (DC-20 and DC-25) to update it, and DC-25 will lead the effort.  
3.2 Most likely a Task Group consisting of members from each committee will be formed. Update of this document remains a PTI Board priority. It will be based on ACI 318-19 and latest ACI 362.  

Need to confirm joint effort and form a task group. Goal is to publish in 2021.  

| 4. Action Item 4: (ACI 318 Reference – New PTI publication) | 4.1 Update status. Creation of ACI 320 influences this. Still defining what will be in 320 versus 318. As it will still do a PTI Journal article on changes between 318-14 and 318-19.  

| 5. Action Item 5: (PT Manual 7th Edition) | 5.1 Tim to provide update on TAB review ballot progress to date; PTI major priority with monthly balloting cycle  
5.2 PT Manual 7th Edition must publish in 2020. The list below represents a summary of the “DC-20 reviewers” responsibility matrix in item 5.1 with remaining Chapters to be released for review |
<table>
<thead>
<tr>
<th>Agenda Item</th>
<th>Expected Outcome / Actions Taken</th>
</tr>
</thead>
</table>
| **TAB ballot complete and publishing in progress:**  
  Chapter 9: PT Concrete Floors; Hamid, Carine  
  Chapter 23: BIM; Carine, Srini, Rob |
| **TAB ballot complete:**  
  Chapter 5: Analysis and Design Fundamentals; Martin C, Jonathan Hamid and Siva  
  Chapter 17: Prestressed Concrete Under Dynamic Loads and Fatigue; Hayek, Schokker, Hirsch |
| **TAB review complete:**  
  Chapter 10: PT Parking Structures; Otto, Martin C, Bryan, and Eric  
  Chapter 18: Fire resistance – Martin C; CRSI to potentially assist with review  
  Chapter 19: Durability (buildings & bridges); Martin M, Kyle B, Ralph L  
  Chapter 8: Seismic Design of PT Concrete Structures; Martin M, Bryan Allred, Kyle B  
  Chapter 25: Sustainability; Martin M, Srini |
| **TAB review will begin in June:**  
  Chapter 7: Design examples; Siva and Eric. Anantha and Chad also volunteered.  
  Chapter 6: Detailing and Construction Procedures for Buildings; Zuming, Mark, Rashid; (Brian Allred volunteered to review) |
| **Still due from authors:**  
  Chapter 24: Anchorage Zone Design; Zuming, Siva;  
  Chapter 16: Design of Prestressed Barrier Cable Systems; reviewers TBD |

6. **Action Item 6: (Dual-Banded PT Layout)**

6.1 Review progress of testing  
6.2 Review progress of Tech Note

6.1 Carin Roberts-Wollmann provided an update during this meeting.  
- Convince 318/320  
- More analytical work to do  
- T4 this summer  
- Taye working with Jonathan  
- TG to come up with suggested things to try and analyze  
- Carin presented current work T1, T3  
- Tough sell to change code on only one research  
- Think about different scenarios where dual banded might raise questions (answer them with analytical work)  
- Martin C. mentioned Microsoft HQ real life dual banded (more rebar)  
- What about pattern load, heavy load, point loads

6.2 Ballot TAB-1907-DC20-TN-Dual Banded PT closed on 9/18/19. 3 Affirmative, 3 Affirmative with Comments, 1 Negative, 1 Abstain and 4
<table>
<thead>
<tr>
<th>Agenda Item</th>
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<tbody>
<tr>
<td>Not Returned. Will hold TAB meeting resolution until after T3 testing summary is complete. Want both to coincide and speak the same language. Proceed further with Tech Note 1 of 2 based upon what we know right now. Jonathan to review, especially regarding nonprestressed reinforcement. Setup a web meeting for the task group to plan road ahead.</td>
<td></td>
</tr>
<tr>
<td>7. Action Item 7: (Temperature Tendons) 7.1 Review progress of Tech Note</td>
<td>7.1 Final draft of Tech Note is nearly complete and will be submitted for TAB ballot as soon as possible. Tim to finish.</td>
</tr>
<tr>
<td>8. Action Item 8: (Structural Detailing for PT Buildings) 8.1 Review progress of proposed new publication</td>
<td>8.1 Tim is in the process of procuring details from PT suppliers in different geographical areas/regions to educate SEs on how best to represent PT on their design drawings and thus create a best practices type document. Tim has had direct discussions with multiple PT suppliers to obtain their input on problematic details. Ultimate publication goal is now more realistically 2021.</td>
</tr>
<tr>
<td>9. Action Item 9: (Update from DC-20A BIM Subcommittee) 9.1 Update on current work of the BIM subcommittee</td>
<td>9.1 Subcommittee Chair Malits provided a brief update on IFC in Exchange Model work with ACI 131 in progress. Document to be balloted starting in September.</td>
</tr>
<tr>
<td>10. Action Item 10: (FAQ or Tech Note, two-way PT slabs, exclusion of restraint effects in the min 125 psi calculation) 10.1 Document update</td>
<td>10.1 Jonathan has not started this document yet. Maybe revisit this at 318-T. Place it on hold.</td>
</tr>
<tr>
<td>11. Action Item 11: (Restrained vs. Unrestrained FAQ) 11.1 Document update</td>
<td>11.1 Did not have time for Siva and Martin C. to provide an update on initial draft document.</td>
</tr>
<tr>
<td>D. New Business  D.1 Review of documents and identification of those in need of revision  D.2 FAQ for practical vs. ACI 318 provisions for column punching shear integrity reinforcement in PT slabs</td>
<td>D.1 List of documents for review:  PTI DC20.2-88 Restraint Cracks and their Mitigation in Unbonded Post-Tensioned Building Structures (1st priority, revision in progress)  PTI DC20.7-01 Design, Construction and Maintenance of Cast-in-Place Post-Tensioned Concrete Parking Structures (2nd priority)</td>
</tr>
<tr>
<td>Agenda Item</td>
<td>Expected Outcome / Actions Taken</td>
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<tr>
<td>D.3 FAQ for ACI 318 8.6.2 provision for minimum P/A and bonded reinforcement</td>
<td>Rashid asked opinion on potentially separating D/C from M.</td>
</tr>
<tr>
<td>PTI DC20.6-99</td>
<td>Design Fundamentals of Post-Tensioned Concrete Floors (3rd priority)</td>
</tr>
<tr>
<td>PTI DC20.8-04</td>
<td>Design of Post-Tensioned Slabs Using Unbonded Tendons (4th priority)</td>
</tr>
<tr>
<td>PTI DC20.9-11</td>
<td>Guide for Design of Post-Tensioned Buildings (5th priority)</td>
</tr>
<tr>
<td>PTI DC20.1-87</td>
<td>Strength and Behavior of Closely Spaced Post-Tensioned Mono-strand Anchorages</td>
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<tr>
<td>PTI DC20.3-89</td>
<td>Structural Integrity of Building Constructed with Unbonded Tendons</td>
</tr>
<tr>
<td>PTI DC20.4-90</td>
<td>Earthquake Performance of Unbonded Post-Tensioned Buildings</td>
</tr>
<tr>
<td>PTI DC20.5-90</td>
<td>Evaluation of the Condition of a Post-Tensioned Concrete Parking Structure After 15 Years of Service</td>
</tr>
<tr>
<td>D.4 Intermediate PT Anchors</td>
<td></td>
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<tr>
<td>D.2 Discuss need for FAQ document to address this issue 318-T will take up this issue as well.</td>
<td></td>
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<tr>
<td>D.3 Discuss need for FAQ document to address this issue 318-T will take up this issue as well</td>
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<tr>
<td>D.4 There is a TAB Task Group that is reviewing and evaluating this matter</td>
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</tbody>
</table>

**E. Next Meeting**
2020 PTI Convention – Miami, FL—September 27-30, 2020
Web Meetings:

**E.1 Dual banded TG web meetings to be scheduled.**

**F. Adjourn**
Meeting adjourned at 2:25 pm CT
<table>
<thead>
<tr>
<th>Exhibit #</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Roster / A.4</td>
<td>Sign-In Sheet / PTI Anti-Trust Policy</td>
</tr>
</tbody>
</table>
At a meeting on October 8, 1980, the Board of Directors first discussed the Institute's status and policies regarding compliance with antitrust laws. After review of both the internal and external compliance procedures, the following resolution was approved:

"The staff, officers, directors and members of the Post-Tensioning Institute are reminded that they are required to comply with the spirit and specific requirements of the antitrust laws on all activities within the scope of, and related to, the official functions of PTI. Further, this restated position, along with appropriate explanatory material, should be placed in all meeting folders/books periodically, beginning with the 8th of October meeting of PTI."

On July 24, 2012 and again on October 7, 2015, the Executive Committee authorized Legal Counsel to review and update this Policy Statement in the perspective of the Department of Justice Business Review Letter of July 30, 1997 and current case law. As a continuing guide for your participation in PTI's meetings, please review and continue to adhere to the following "Legal Limitation on Discussions at PTI Meetings."

**LEGAL LIMITATION ON DISCUSSIONS AT PTI MEETINGS AND EVENTS**

A free exchange of ideas on matters of mutual interest to the members is necessary for the success of all meetings. Indeed, such an exchange of views is essential to the successful operation of every trade association and the law specifically allows legitimate exchange of views pertaining to, e.g., quality control, safety, building design and construction integrity, etc.

It is not the purpose of this memorandum to discourage the exploration in depth of any matters of legitimate concern to meeting participants. Nevertheless, to ignore certain antitrust ground rules, either through ignorance or otherwise, is to create a civil and criminal hazard businessmen simply cannot afford.

It is for these reasons that PTI provides you with a reminder that certain areas of formal and informal communication between competitors or between manufacturers and their suppliers and customers must be avoided, as posing potential antitrust problems.

The Sherman Antitrust Act, the Clayton Act, the Federal Trade Commission Act, and the Robinson-Patman Act comprise the basic federal antitrust laws, which set forth the broad areas of conduct considered illegal as restraints of trade. In general, agreements or understandings between competitors that operate as an impediment to free and open competition are forbidden. Federal antitrust prohibitions forbid any "agreement or understanding...to substantially lessen competition or tend to create a monopoly in any line of commerce." An important point to keep in mind is that communications and discussions between competitors or between sellers and customers, about matters which may be considered anti-competitive, often comprise the evidence from which courts infer antitrust violations. **It is the policy of the Post-Tensioning Institute that such agreements, understandings or communications shall not be tolerated at any formal or informal meetings or social events of the Institute.**

The general prohibitions contained in the federal antitrust laws, have been particularized in the form of a series of consent decrees, originally entered against a number of member companies of various trade associations and the associations themselves. It is important to note that these laws not only apply to PTI members, but also to PTI itself. Often trade associations have been and are presently co-defendants in cases brought by the Justice Department and the Federal Trade Commission ("FTC"). Recently, the FTC has stated: “Because trade associations are by their nature collaborations among competitors, the Commission and courts have long been concerned with anti-competitive restraints imposed by such organizations under the guise of codes of conduct. Competing for customers, cutting prices, and recruiting employees are hallmarks of vigorous competition. Agreements among competitors not to engage in these activities injure consumers by increasing prices and reducing quality and choice.” Similar “codes” or policies and requirements that encourage directly or indirectly members’ unlawful activity are strictly forbidden by PTI in the course of its business with its members.
SPECIFIC EXAMPLES OF ACTIVITIES AND PRACTICES PROHIBITED
AT ALL PTI MEETINGS AND EVENTS:

Included in activities and practices which are forbidden, and are contrary to the policy of the Institute, both under the general antitrust laws and the consent decrees, subject to the said Business Review Letter, are the following:

- Agreeing to allocate markets, customers or suppliers among competitors, classify certain customers or suppliers being entitled to preferential treatment by manufacturers, and establish geographic trading areas.

- Participating in any plan designed to induce any manufacturer or distributor to sell or refrain from selling, or discriminate in favor of, or against any particular customer or class of customers.

- Agreeing in any manner to fix or otherwise establish bids, prices (including price increases, decreases, standardization or stabilization), profits, costs, contract terms affecting price (such as discounts and credit terms), etc. because, e.g. prices were too low, with the exception of certain resale pricing agreements between manufacturers and retailers or distributors.

- Agreeing in any manner to limit or restrict the quality of products to be produced (e.g., restrictions on selling coated strand to certain customers).

- Participating in any plan which has the effect of discriminating against, or excluding competitors, suppliers or customers.

These examples are provided to guide you in your discussions during formal and informal PTI meetings and social events. If the occasion arises, more specific advice will be provided by legal counsel, who is required by Article IV, Section 7 of the PTI By-Laws to be present at all meetings of the Board of Directors and the Executive Committee.