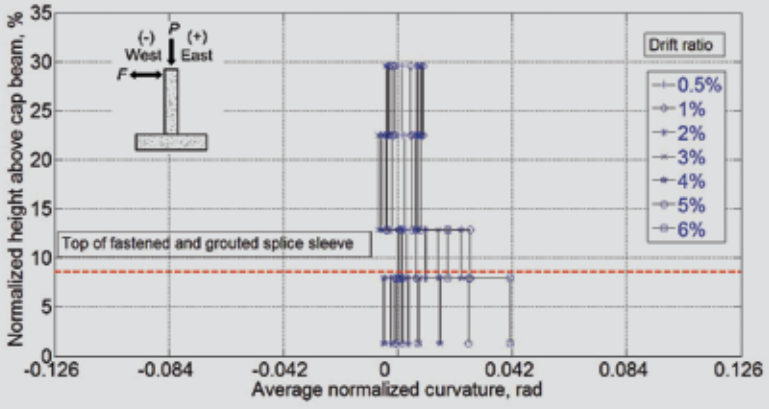
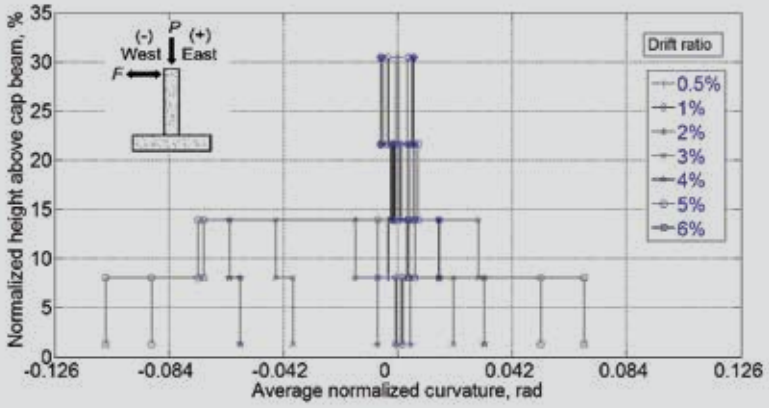
Discussion

Seismic evaluation of grouted splice sleeve connections for reinforced precast concrete column–to–cap beam joints in accelerated bridge construction

Equation (2) on page 97, $\phi = \frac{A-B}{wh}$, and Fig. 19 on page 98 of "Seismic Evaluation of Grouted Splice Sleeve Connections for Reinforced Precast Concrete Column–to–Cap Beam Joints in Accelerated Bridge Construction"[1] by M. J. Ameli, Joel E. Parks, Dylan N. Brown, and Chris P. Pantelides in the March–April 2015 issue of *PCI Journal* may need some clarification. As I read the equation, the units on curvature should be rad/inch. The width of curvature segment w is probably the distance between the linear variable differential transformers rather than the column thickness. The second sentence below the equation, "The average curvature values were normalized by multiplying by the column dimension of 21 in. (530 mm), and the curvature segment heights were divided by the overall column height of 96 in. (2440 mm)," does not make sense to me. Something seems to be have been omitted in the description.



Curvature distribution for specimen FGSS-1



Curvature distribution for specimen FGSS-2

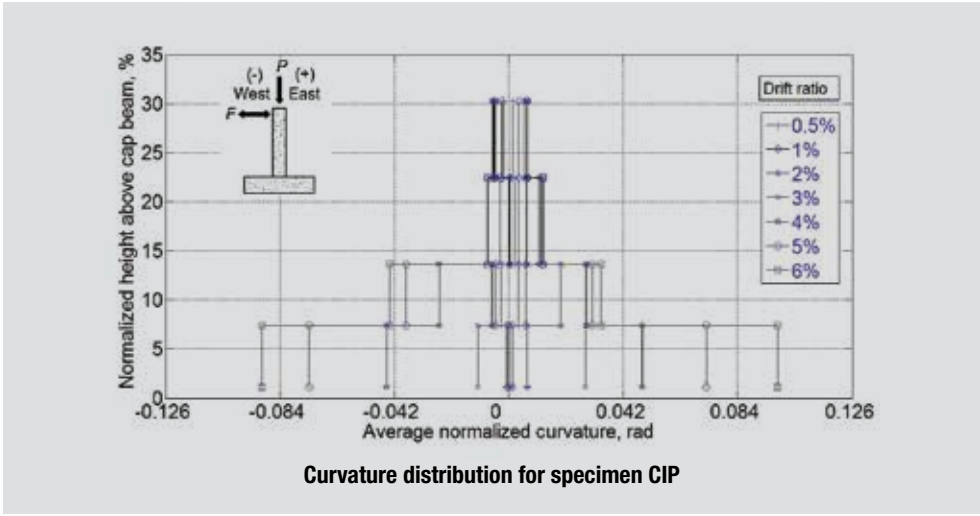


Figure 19. Normalized curvature distribution. Note: F = force; P = axial load.

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Reference

1. Ameli, M. J., Joel E. Parks, Dylan N. Brown, and Chris P. Pantelides. 2015. "Seismic Evaluation of Grouted Splice Sleeve Connections for Reinforced Precast Concrete Column–to–Cap Beam Joints in Accelerated Bridge Construction." *PCI Journal* 60 (2): 80–103.

Authors' response

The authors appreciate Bill Gamble's comment. The authors would like to point out that Eq. (2) on page 97 defines the average curvature values, whereas Fig. 19 on page 98 presents the average normalized curvature values.[1] In the second sentence following Eq. (2), the authors explained the normalization method, which was conducted as follows: the values obtained from Eq. (2) were multiplied by the column dimension of 21 in. (530 mm). The width of curvature segment w is indeed the distance between linear variable differential transformers. This was an effort to simplify the curvature distribution plots in a dimensionless form.

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Reference

1. Ameli, M. J., Joel E. Parks, Dylan N. Brown, and Chris P. Pantelides. 2015. "Seismic Evaluation of Grouted Splice Sleeve Connections for Reinforced Precast Concrete Column–to–Cap Beam Joints in Accelerated Bridge Construction." *PCI Journal* 60 (2): 80–103.

Correction

The editors have removed Nabil Grace as an author of "Posttensioning of Segmental Bridges Using Carbon-Fiber-Composite Cables" that appeared in the May–June 2015 issue of the *PCI Journal*. Grace's name was removed at his request. An updated PDF of the article is available on the PCI website at http://www.pci.org.

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