

**Zeitschrift:** IABSE structures = Constructions AIPC = IVBH Bauwerke  
**Band:** 3 (1979)  
**Heft:** C-7: Structures in Switzerland

## Werbung

### Nutzungsbedingungen

Die ETH-Bibliothek ist die Anbieterin der digitalisierten Zeitschriften auf E-Periodica. Sie besitzt keine Urheberrechte an den Zeitschriften und ist nicht verantwortlich für deren Inhalte. Die Rechte liegen in der Regel bei den Herausgebern beziehungsweise den externen Rechteinhabern. Das Veröffentlichen von Bildern in Print- und Online-Publikationen sowie auf Social Media-Kanälen oder Webseiten ist nur mit vorheriger Genehmigung der Rechteinhaber erlaubt. [Mehr erfahren](#)

### Conditions d'utilisation

L'ETH Library est le fournisseur des revues numérisées. Elle ne détient aucun droit d'auteur sur les revues et n'est pas responsable de leur contenu. En règle générale, les droits sont détenus par les éditeurs ou les détenteurs de droits externes. La reproduction d'images dans des publications imprimées ou en ligne ainsi que sur des canaux de médias sociaux ou des sites web n'est autorisée qu'avec l'accord préalable des détenteurs des droits. [En savoir plus](#)

### Terms of use

The ETH Library is the provider of the digitised journals. It does not own any copyrights to the journals and is not responsible for their content. The rights usually lie with the publishers or the external rights holders. Publishing images in print and online publications, as well as on social media channels or websites, is only permitted with the prior consent of the rights holders. [Find out more](#)

**Download PDF:** 02.05.2026

**ETH-Bibliothek Zürich, E-Periodica, <https://www.e-periodica.ch>**



FROM **pci** AND **pti**

# PRECAST SEGMENTAL BOX GIRDER BRIDGE MANUAL



## CONTENTS

**Chapter 1. Development of Precast Segmental Bridge Construction.** An illustrated narrative of the development of precast segmental bridge construction in Europe and applications in Canada and the United States.

**Chapter 2. Considerations for Segment Design.** Presents recommendations for segment dimensions and details of segment design.

**Chapter 3. Analysis of Precast Segmental Box Girder Bridges.** Emphasizes aspects of design that differ or require more detailed consideration than more conventional types of prestressed concrete structures. Includes procedures for design for creep, shrinkage and temperature differential as well as analysis and correction of deformations required to control structure geometry.

**Chapter 4. Fabrication Transportation and Erection of Precast Segments.** Provides recommendations relative to construction aspects and their consideration during the design phase.

**Chapter 5. Design Example, North Vernon Bridge, Indiana.** A detailed illustration of design procedures and calculations for a three-span precast segmental bridge.

**Appendix.** Includes tentative design and construction specifications for precast segmental box girder bridges, summary of precast segmental box girder bridge sections in the United States and Canada, complete notation, and references.

**Published jointly by the Prestressed Concrete Institute and the Post-Tensioning Institute, this new manual includes detailed illustration of design and construction procedures for this important new bridge construction technique.**

To obtain copies, complete the coupon and return along with your payment to either PTI or PCI at the addresses indicated below

### ORDER YOUR COPIES NOW!

If not satisfied, return the manual within 10 days and your money will be refunded

**Softcover, 124 pages, \$12.00 (\$8.00 to PCI or PTI Members)**



For orders outside the U.S.A., add 20% to cost. PLEASE INCLUDE REMITTANCE WITH ORDER.

CC

Please send me \_\_\_\_\_ copies of the Precast Segmental Box Girder Bridge Manual. Price \$12.00; PCI or PTI Members \$8.00

Amount enclosed \$ \_\_\_\_\_

Name \_\_\_\_\_

Firm \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Return Coupon to either: Country \_\_\_\_\_

Prestressed Concrete Institute  
20 N. Wacker Drive, Suite 1820  
Chicago, Illinois 60606

OR

Post-Tensioning Institute  
301 W. Osborn, Suite 3500  
Phoenix, Arizona 85013