

# Pci Bridge Design Manual Chapter 9

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### **Pci Bridge Design Manual Chapter**

PCI BRIDGE DESIGN MANUAL\_\_\_\_ CHAPTER 6 PRELIMINARY DESIGN 6.5.1 Product Types/6.5.2 Design Criteria 6 - 14 (Nov 11) 6.10. Traditional sections such as rectangular box beams, AASHTO I -beams and AASHTO-PCI Bulb-Tee sections

### **PCI Bridge Design Manual - 3rd Edition, First Release ...**

PCI BRIDGE DESIGN MANUAL\_\_\_\_ CHAPTER 8 DESIGN THEORY AND PROCEDURE 8.7 Camber and Deflection 8 -63 (Mar 16) Table 8.7-1 Camber (deflection) and rotation coefficients for prestress force and loads\* End Rotation  $M_l F 6EI M_l F 3EI M_l F$

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2EI Nℓ F 6 16EI b1 FbNℓ F 6 2EI wℓ F 7 24EI

## **PCI BRIDGE DESIGN MANUAL CHAPTER DESIGN THEORY AND PROCEDURE**

PCI BRIDGE DESIGN MANUAL \_\_\_\_\_ CHAPTER 9, DESIGN EXAMPLE 9.1a BULB-TEE (BT-72), SINGLE SPAN, COMPOSITE DECK  
9.1a.12.3 Required Interface Shear Reinforcement/9.1a.13 Minimum Longitudinal Reinforcement Requirement 9.1a - 38 (Nov 11 w/errata date April 12) where  $c$  = cohesion factor, ksi

## **CHAPTER 9, DESIGN EXAMPLE 9.1a BULB-TEE (BT-72 ... - PCI**

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THE NEW PCI BRIDGE DESIGN MANUAL and PCI Precast "Folded  
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Slabs” for Superelevation Transitions . BDM HISTORY • The original BDM dates to Oct. 1997. – At that time,,y many States still used the old ... CHAPTER 9 – DESIGN EXAMPLES Design example 9.1a is the same as Example 9.4

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PCI BRIDGE DESIGN MANUAL CHAPTER 9, DESIGN EXAMPLE 9.4  
BOX BEAM (BIII-48), SINGLE SPAN, NONCOMPOSITE SURFACE

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9.4.15.6 Deflection Due to Live Load and Impact/9.4.16  
Transverse Post-Tensioning 9.4 - 37 (Oct 15) Therefore, live load deflection is the greater of:  $\Delta LT$

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NeXT Bridge Beams (104k, PDF) PCI Zone 6 Curved Spliced Girders (1.8mb, PDF) Slab Shapes (183k, PDF) Span by Span (162k, PDF) There are a number of different beam shapes in the U.S. Market. PCI has developed Preliminary Design Charts in accordance with the AASHTO. 2010. AASHTO LRFD Bridge Design Specifications, Fifth Edition with 2011 Interim ...

## **Bridge Design - PCI**

PCI BRIDGE DESIGN MANUAL CHAPTER 9, SECTION 9.6. JUL 03.  
9.6.7 STRESSES AT TRANSFER. 9.6.7.1 Stress Limits for Concrete  
9.6.7.2 Stresses at Transfer Length Section 9.6.7.3 Stresses at Harp Points 9.6.7.4 Stresses at Midspan 9.6.7.5 Hold-Down Forces 9.6.7.6 Summary of Stresses at Transfer.

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### **PCI BRIDGE DESIGN MANUAL TABLE OF CONTENTS**

PCI Bridge Design Manual, 3rd Edition (MNL-133-11) This comprehensive, electronic design manual includes both preliminary and final design information for standard girders and most precast and precast, prestressed concrete products and systems used for transportation structures. It contains background, strategies for economy, fabrication techniques, evaluation of loads, load tables, design theory and numerous complete design examples.

### **Item Detail - MNL133 - PCI Bridge Design Manual, 3rd Ed.**

PCI BRIDGE DESIGN MANUAL CHAPTER 9, DESIGN EXAMPLE 9.1c  
BULB-TEE (BT-72), SINGLE SPAN, COMPOSITE DECK 9.1c.12.3  
Required Interface Shear Reinforcement/9.1c.13 Minimum  
Longitudinal Reinforcement Requirement 9.1c - 15 (Nov 11  
w/errata date April 12)  $V_{ni} = cA_{cv} + \mu(A_{vf} f_y h + P_c$

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### **CHAPTER 9, DESIGN EXAMPLE 9.1c BULB-TEE (BT ... - test.pci.org**

PCI BRIDGE DESIGN MANUAL\_\_\_\_CHAPTER 9, DESIGN EXAMPLE  
9.5 BOX BEAM (BIII-48), SINGLE SPAN, COMPOSITE DECK  
9.5.12.3.1 Minimum Interface Shear Reinforcement/9.5.13.1  
Required Reinforcement at Face of Bearing 9.5 - 39 (Nov 11  
w/errata date April 12) However, LRFD Article 5.8.4.4 states that  
the minimum reinforcement need not exceed the amount ...

### **PCI BRIDGE DESIGN MANUAL BOX BEAM (BIII-48), SINGLE SPAN ...**

The 2015 Bridge Design Manual was developed to provide guidance to design engineers, technicians, and inspection personnel engaged in bridge design, plan preparation, construction, and inspection activities for the New Hampshire Department of Transportation. It encourages uniform application of design methodology and criteria, as well as standard details in



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plan preparation for bridges and ...

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...

PCI BRIDGE DESIGN MANUAL APPENDIX B AASHTO/PCI  
STANDARD PRODUCTS AASHTO Box Beams OCT 97 Dimensions  
(inches) Type W H BI-36 36 27 BI-48 48 27 BII-36 36 33 BII-48 48  
33 BIII-36 36 39 BIII-48 48 39 BIV-36 36 42 BIV-48 48 42  
Properties Type Area in.<sup>2</sup> y bottom in. Inertia in.<sup>4</sup> Weight kip/ft  
Max. Span\* ft BI-36 560.5 13.35 50,334 0.584 92 BI-48 692 ...

### **PCI Bridge Manual Appendix B, AASHTO/PCI Standard Products**

WisDOT Bridge Manual Chapter 19 – Prestressed Concrete July  
2020 19-7 19.3 Pretensioned Member Design This section  
outlines several important considerations associated with the  
design of conventional pretensioned members. 19.3.1 Design

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Strengths The typical specified design strengths for pretensioned members are: Prestressed I-girder concrete ...

### **WisDOT Bridge Manual Chapter 19 - Prestressed Concrete**

The Bridge Design Manual covers both preliminary and final design information for standard girders and most precast and precast, prestressed concrete products and systems used in bridge structures. The book is designed to explain and amplify the application of both the AASHTO Standard and LRFD Bridge Design Specifications.

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manual. Chapter 2, Limit States and Loads. General information on limit states and on load factors. Chapter 3, Superstructure Design. Policy on LRFD design of specific bridge superstructure components. Chapter 4, Substructure Design. Policy on LRFD

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design of specific bridge substructure components. Chapter 5, Other Designs. Design guidelines ...

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