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PCI Foundation Precast Bridge Studio (PBS) at Sacramento State Fall 2018 LECTURE 10 DESIGN OF BRIDGE GIRDERS AND DESIGN OF PRESTRESSED CONCRETE MiBridge Seminar - Reinforced Concrete Bridge Design to Eurocodes - Midas Civil Introduction to Bridge Engineering Modeling and Analysis of PSC I Girder Bridge | Bridge Design | Bridge Analysis | Civil Engineering ~~Books for the PE Structural Exam~~ — Basic Introductory Training of midas Civil for New Users | bridge design | bridge engineering 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

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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 $M = \frac{F \cdot 6EI}{M} = \frac{F \cdot 3EI}{M} = \frac{F \cdot 2EI}{N} = \frac{F \cdot 6 \cdot 16EI}{b1 \cdot FbN} = \frac{F \cdot 6 \cdot 2EI}{w} = \frac{F \cdot 7 \cdot 24EI}{w}$

PCI BRIDGE DESIGN MANUAL CHAPTER DESIGN THEORY AND PROCEDURE

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PCI Bridge Design Manual, 3rd Edition FREE PDF (MNL-133-11E) 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.

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

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

THE NEW PCI BRIDGE DESIGN MANUAL and PCI Precast “ Folded Slabs ” for Superelevation Transitions . BDM HISTORY • The original BDM dates to Oct. 1997. — At that time,,y many States still

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used the old ... CHAPTER 9 – DESIGN EXAMPLES Design example 9.1a is the same as Example 9.4

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PCI has developed Preliminary Design Charts in accordance with the AASHTO. 2010. AASHTO LRFD Bridge Design Specifications, Fifth Edition with 2011 Interim Revisions. The below chart is a sample of those products. The charts can be accessed in Preliminary LRFD Design Charts which you can download below.

Bridge Design - PCI

PCI Design Handbook. The authority for the design, manufacture, and use of precast, prestressed concrete. Purchase the 8th Edition

PCI

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.

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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 9.6.8
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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.2 y bottom in. Inertia in.4

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

WisDOT Bridge Manual Chapter 19 – Prestressed Concrete
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Refer to PCI Bridge Design Manual for additional design considerations for skewed and curved bridges. Designers shall pay special attention to the haunch thickness of prestressed girders when they are used in conjunction with a high degree of vertical and horizontal curvature which could present challenges to meeting haunch dimension requirements.

PCI Bridge Design Manual - Louisiana

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 plan preparation for bridges and ...

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