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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
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MANUAL CHAPTER

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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

$F 6EI M_l F 3EI M_l F 2EI$

$N_l F 6 16EI b_1 F b N_l F 6$

$2EI w_l F 7 24EI$

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MANUAL CHAPTER
DESIGN THEORY
AND PROCEDURE**

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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
Page 6/25

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**EXAMPLE 9.1a BULB-
TEE (BT-72 ... - PCI**

part of the 8-in. deck.
Design live load is
AASHTO LRFD HL-93.
The design will be
carried out in
accordance with the
AASHTO LRFD Bridge
Design Specifications,
2nd Edition, 1998, and
including through the
2003 Interim Revisions.

PCI BRIDGE DESIGN
MANUAL CHAPTER 9,
SECTION 9.6 JUL 03
9.6.1 INTRODUCTION

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Figure 9.6.1-1
Longitudinal Section
Bulb-Tee ...

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MNL133 - PCI Bridge
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Ed., FREE PDF 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.

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Item Detail -

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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

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load deflection is the
greater of: Δ LT

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

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

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BIII-48 48 39 BIV-36 36

42 BIV-48 48 42

Properties Type Area

in.2 y bottom in. Inertia

in.4 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

PCI has developed

Preliminary Design

Charts in accordance

with the AASHTO.

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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

This publication was first printed in the Precast/Prestressed

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Concrete Institute
Bridge Design Manual,
MNL-133, as Chapter
20, Precast Prestressed
Concrete Piles. It is
reprinted in this form
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MANUAL CHAPTER 12
NOTATION CURVED
AND SKEWED BRIDGES
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A = area A_c = area of cross-section of the precast beam A_c = total area of the composite section A_{cp} = total area enclosed by outside perimeter of concrete cross-section a = a length defined in Figure 12.4.1.1-1 B = width b_v = effective web width C = coefficient to compute centrifugal force

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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

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methodology and criteria, as well as standard details in plan preparation for bridges and ...

Bridge Design Manual | Bridge Design | NH Department of ...

WisDOT Bridge Manual
Chapter 19 -

Prestressed Concrete
July 2020 19-7 19.3

Pretensioned Member
Design This section
outlines several

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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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MICHIGAN DESIGN
MANUAL BRIDGE
DESIGN CHAPTER 3
PLAN COMPOSITION -
NEW &
RECONSTRUCTION
PROJECTS 3.00
GENERAL (12-17-2018)
New Construction and
Reconstruction (4R) is
defined as a new
bridge, a bridge
replacement, a
superstructure
replacement, a deck
replacement or
widening of at least

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one lane width
(including a lane used
for

Bridge Design Manual - Chapter 3

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.

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

Bridge Design Manual - LRFD (LRF)

PRECAST

PRESTRESSED

CONCRETE BRIDGE

DESIGN MANUAL.

VOLUMES 1 AND 2. The

PCI Bridge Design

Manual as of October

1997 contains: Two

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loose-leaf notebooks
(Volume 1 and ...

PRECAST PRESTRESSED CONCRETE BRIDGE DESIGN MANUAL. VOLUMES ...

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ps

docshare02.docshar e.tips

CPCI launched its first
ever webinar series to
present each chapter
of the CPCI Fifth Edition

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Design Manual. The webinars were presented by the Chapter Editors to CPCI members, engineers, owners/developers, designers and AEC professionals, from May to October, 2018, and are still available for viewing.

CPCI Design Manual - Canadian Precast Prestressed Concrete ...

The PCI Bridge Design

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Manual (2003) addresses the lateral stability of slender members in Chapter 8.10 which outlines a procedure for calculating a factor of safety against cracking for a hanging beam.

Lifting Analysis of Precast Prestressed Concrete Beams

Bridge Manual Chapter
7 on Accelerated
Bridge Construction
(pdf) Videos: 2017 ABC
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Lightbulb (8 minutes)
2016 Local Roads GRS-
IBS Bridge
Replacement Project,
built with help of FHWA
AID grant (4 minutes)
ABC Bridge Standards
(GRS, PBE - Piers)

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