



Precast/Prestressed Concrete Institute

# BRIDGE DESIGN MANUAL

3rd Edition, Second Release, August 2014

Part One (Introduction — Chapter 9)

# Pci Bridge Design Manual 3rd Edition

**Mohiuddin A. Khan**



### **Pci Bridge Design Manual 3rd Edition:**

**PCI Bridge Design Manual 4th Edition** Precast,2023-10

**Bridge Engineering Handbook, Five Volume Set**

Wai-Fah Chen,Lian Duan,2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection provides detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject and also highlights bridges from around the world This second edition of the bestselling Bridge Engineering Handbook covers virtually all the information an engineer would need to know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format An abundance of worked out examples gives readers numerous practical step by step design procedures Special attention is given to rehabilitation retrofit and maintenance Coverage also includes seismic design and building materials Thoroughly revised and updated this second edition contains 26 new chapters

Bridge Engineering Handbook, Second Edition Wai-Fah Chen,Lian Duan,2014-01-24 Over 140 experts 14 countries and 89 chapters are represented in the second edition of the Bridge Engineering Handbook This extensive collection highlights bridge engineering specimens from around the world contains detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject Published in five books Fundamentals Superstructure Design Substructure Design Seismic Design and Construction and Maintenance this new edition provides numerous worked out examples that give readers step by step design procedures includes contributions by leading experts from around the world in their respective areas of bridge engineering contains 26 completely new chapters and updates most other chapters It offers design concepts specifications and practice as well as the various types of bridges The text includes over 2 500 tables charts illustrations and photos The book covers new innovative and traditional methods and practices explores rehabilitation retrofit and maintenance and examines seismic design and building materials The second book Superstructure Design contains 19 chapters and covers information on how to design all types of bridges What s New in the Second Edition Includes two new chapters Extradosed Bridges and Stress Ribbon Pedestrian Bridges Updates the Prestressed Concrete Girder Bridges chapter and rewrites it as two chapters Precast Pretensioned Concrete Girder Bridges and Cast In Place Post Tensioned Prestressed Concrete Girder Bridges Expands the chapter on Bridge Decks and Approach Slabs and divides it into two chapters Concrete Decks and Approach Slabs Rewrites seven chapters Segmental Concrete Bridges Composite Steel I Girder Bridges Composite Steel Box Girder Bridges Arch Bridges Cable Stayed Bridges Orthotropic Steel Decks and Railings This text is an ideal reference for practicing bridge engineers and consultants design construction maintenance and can also be used as a reference for students in bridge engineering courses

**Accelerated Bridge Construction** Mohiuddin Ali Khan,2014-08-12 The traveling public has no patience for prolonged high cost construction projects This puts highway construction contractors under intense pressure to minimize traffic disruptions and

construction cost Actively promoted by the Federal Highway Administration there are hundreds of accelerated bridge construction ABC construction programs in the United States Europe and Japan Accelerated Bridge Construction Best Practices and Techniques provides a wide range of construction techniques processes and technologies designed to maximize bridge construction or reconstruction operations while minimizing project delays and community disruption Describes design methods for accelerated bridge substructure construction reducing foundation construction time and methods by using pile bents Explains applications to steel bridges temporary bridges in place of detours using quick erection and demolition Covers design build systems boon to ABC development of software use of fiber reinforced polymer FRP Includes applications to glulam and sawn lumber bridges precast concrete bridges precast joints details use of lightweight aggregate concrete aluminum and high performance steel *PCI Journal*, 2009 *Bridge Engineering, Third Edition* Jim J. Zhao, Demetrios E. Tonias, 2012-04-09 The state of the art in highway bridge engineering Fully updated with the latest codes and standards including load and resistance factor design LRFD Bridge Engineering Third Edition covers highway bridge planning design construction maintenance and rehabilitation This thoroughly revised reference contains cutting edge analytical design and construction practices the most current information on new materials and methods and proven cost effective maintenance and repair techniques Real world case studies and hundreds of helpful photos and illustrations are also included in this practical resource BRIDGE ENGINEERING THIRD EDITION FEATURES COMPLETE COVERAGE OF Highway bridge structures Project inception Project funding Design standards Bridge inspection and site survey Physical testing As built plans and other record data Superstructure types Deck types Wearing surface types Deck joint types Design loads Design methods Internal forces Load distribution Concrete deck slabs Composite steel members Plate girder design Continuous beams Protecting steel superstructures Load rating Prestressed concrete Substructure design Abutments Piers Bearings Managing the design process Contract documents Bridge management systems **Bridge and Highway Structure Rehabilitation and Repair** Mohiuddin A. Khan, 2010-02-08 State of the Art Bridge and Highway Rehabilitation and Repair Methods This authoritative volume offers up to date guidance on the latest design techniques repair methods specialized software materials and advanced maintenance procedures for bridges and highway structures Focusing on both traditional and nontraditional design issues Bridge and Highway Structure Rehabilitation and Repair clarifies the most recent AASHTO bridge design codes and discusses new analytical and design methodologies such as the application of load and resistance factor design LRFD A wealth of concise explanations solved examples and in depth case studies are included in this comprehensive resource COVERAGE INCLUDES Diagnostic design and selective reconstruction Bridge failure studies and safety engineering Analytical approach to fracture and failure Load and resistance factor rating LRFR and redesign Application of LRFD and LRFR methods Inspection and structural health monitoring Bridge widening and replacement strategies Conventional repair methods Advanced repair methods Concrete repair methods Extreme events of flood scour

and countermeasures design Guidelines for seismic design and retrofit methods      **Prestressed Beam End Reinforcement and Camber** Maher K. Tadros,2003      **Allowable Compression Limits in Prestressed Concrete Members** Maher K. Tadros,Panya Noppakunwijai,2002      High-performance/high-strength Lightweight Concrete for Bridge Girders and Decks Thomas E. Cousins,Carin Louise Roberts-Wollmann,Michael Carey Brown,2013 TRB s National Cooperative Highway Research Program NCHRP Report 733 High Performance High Strength Lightweight Concrete for Bridge Girders and Decks presents proposed changes to the American Association of State Highway and Transportation Officials Load and Resistance Factor Design LRFD bridge design and construction specifications to address the use of lightweight concrete in bridge girders and decks The proposed specifications are designed to help highway agencies evaluate between comparable designs of lightweight and normal weight concrete bridge elements so that an agency s ultimate selection will yield the greatest economic benefit The attachments contained in the research agency s final report provide elaborations and detail on several aspects of the research Attachments A and B provide proposed changes to AASHTO LRFD bridge design and bridge construction specifications respectively these are included in the print and PDF version of the report Attachments C through R are available for download below Attachments C D and E contain a detailed literature review survey results and a literature summary and the approved work plan respectively Attachment C Attachment D Attachment E Attachments F through M provide details of the experimental program that were not able to be included in the body of this report Attachment F Attachment G Attachment H Attachment I Attachment J Attachment K Attachment L Attachment M Attachments N through Q present design examples of bridges containing lightweight concrete and details of the parametric study Attachment N Attachment O Attachment P Attachment Q Attachment R is a detailed reference list Publication information      Design of Continuous Prestressed Structures with Application to Highway Bridge Design Vu Dinh Bon,1981      **ACI Manual of Concrete Practice** ,2005      **Bridge Engineering, Third Edition** Jim Zhao,Demetrios Tontas,2012-03-05 The state of the art in highway bridge engineering Fully updated with the latest codes and standards including load and resistance factor design LRFD Bridge Engineering Third Edition covers highway bridge planning design construction maintenance and rehabilitation This thoroughly revised reference contains cutting edge analytical design and construction practices the most current information on new materials and methods and proven cost effective maintenance and repair techniques Real world case studies and hundreds of helpful photos and illustrations are also included in this practical resource BRIDGE ENGINEERING THIRD EDITION FEATURES COMPLETE COVERAGE OF Highway bridge structures Project inception Project funding Design standards Bridge inspection and site survey Physical testing As built plans and other record data Superstructure types Deck types Wearing surface types Deck joint types Design loads Design methods Internal forces Load distribution Concrete deck slabs Composite steel members Plate girder design Continuous beams Protecting steel superstructures Load rating Prestressed concrete Substructure design Abutments Piers Bearings

Managing the design process Contract documents Bridge management systems **Improvement of Continuity Connection Over Fixed Piers** M. Ala Saadeghvaziri,2004 To improve structural efficiency of multi span simply supported bridges partial and or full continuity is provided through cast in place concrete diaphragms and decks These bridges known as Simple Span Precast Prestressed Bridge Girders Made Continuous are continuous for live loads This continuity connection is also beneficial from maintenance point of view by eliminating open joints However continuity connections also have their own structural construction and maintenance shortcomings Development of positive moments and diaphragm cracking at the internal pier due to time dependent effects of prestressing is a major structural problem that also affects bridge durability and esthetics Another issue is that due to reinforcement congestion joint construction is time consuming and thus expensive Furthermore the degree of continuity varies depending on structural and construction conditions These problems are common to various design details used by many states in the US **A Precast Substructure Design for Standard Bridge Systems** Sarah Longstreth Billington,Robert W. Barnes,John Edward Breen,1999 The proposed substructure system described in this report has been developed to improve the aesthetics and reduce the construction time of the support structures for standard bridges The form of the proposed substructures is highly attractive and is a distinct improvement over many traditional short and medium span bridge substructures The substructure system developed is particularly well suited for precasting although the geometric form could be cast in situ Precasting would result in the increased use of high performance concrete in the substructures The use of such concrete will bring improved durability since the high performance concrete is greatly resistant to ingress of moisture and chlorides In addition the greater compressive strength of the high performance concretes is utilized for reducing the handling weight and dead load of the substructure units The bent cap units are more complex than traditional cast in place bent caps but appear feasible for plant production or large scale cast on site projects **Index and Directory of U.S. Industry Standards** ,1987 *Evaluating the Time-dependent Deformations and Bond Characteristics of a Self Consolidating Concrete Mix and the Implication for Pretensioned Bridge Applications* Kyle H. Larson,2007 Results of an extensive experimental program conducted to determine the material bond characteristics and time dependent deformations of a proposed self consolidating concrete SCC mixture for bridge girders are presented This research program was completed in three phases The first phase consisted of 15 full scale pretensioned SCC flexural specimens tested to evaluate their transfer and development lengths These specimens included both single strand and multiple strand beams as well as specimens designed to evaluate the so called top strand effect The top strand specimens with more than 20 inches of concrete below the strand were tested to evaluate the current American Association of State Highway and Transportation Officials requirement of a 30% increase in the development length when the concrete below the strand is more than 12 inches Strand end slip measurements used to estimate transfer lengths indicated the proposed SCC mixture meets ACI and AASHTO requirements In addition flexural tests confirmed the proposed SCC mixture

also meets current code requirements for development length The second phase was to evaluate the elastic shortening creep and shrinkage properties of the proposed SCC mixture for bridge girders Four bridge girders with an inverted T profile were used to measure these time dependent deformations In two of the specimens the strands were tensioned to 75% of the ultimate tensile strength simulating a girder at service Strands of the other two specimens were left untensioned to evaluate shrinkage effect of the concrete alone The shrinkage was then subtracted from the fully tensioned specimens and elastic shortening and creep were isolated after relaxation losses were calculated from code expressions In addition the fully tensioned specimens were used to determine transfer lengths of the prestressing strand The final phase of the program was to record strain measurements of the actual bridge girders used in the field Elastic shortening creep and shrinkage prestress losses of the proposed SCC mixture were compared with current design equations Instrumentation of seven pretensioned girders in a five span bridge located in Cowley County Kansas was used to measure time dependent deformations Three of these girders utilized SCC while the other four were cast with conventional concrete

**Bridge Maintenance, Safety, Management, Life-cycle Performance and Cost** Paulo J. S. Cruz, Dan M. Frangopol, Luis C. Neves, 2006 Accompanying CD ROM contains the full texts of the lectures and papers presented at IABMAS 06

**Synthesis of Highway Practice** National Cooperative Highway Research Program, W. A. Rusch, 1984

*AASHTO LRFD Bridge Design Specifications* American Association of State Highway and Transportation Officials, 1994 The provisions of these Specifications are intended for the design evaluation and rehabilitation of both fixed and movable highway bridges Mechanical electrical and special vehicular and pedestrian safety aspects of movable bridges however are not covered Provisions are not included for bridges used solely for railway rail transit or public utilities For bridges not fully covered herein the provisions of these Specifications may be applied as augmented with additional design criteria where required These specifications are not intended to supplant proper training or the exercise of judgment by the Designer and state only the minimum requirements necessary to provide for public safety The Owner or the Designer may require the sophistication of design or the quality of materials and construction to be higher than the minimum requirements The concept of safety through redundancy and ductility and protection against scour and collision are emphasized The design provisions of these Specifications employ the Load and Resistance Factor Design LRFD methodology The factors have been developed from the theory of reliability based upon current statistical knowledge of loads and structural performance Methods of analysis other than those included in previous Specifications and the modelling techniques inherent in them are included and their use is encouraged The commentary is not intended to provide a complete historical background concerning the development of these or previous Specifications nor is it intended to provide a detailed summary of the studies and research data reviewed in formulating the provisions of the Specification However references to some of the research data are provided for those who wish to study the background material in depth The commentary directs attention to other documents that provide suggestions for carrying out the

requirements and intent of these Specifications However those documents and this commentary are not intended to be a part of these Specifications Page1 1

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