

CONCRETE BRIDGE CONSTRUCTION  
S-393.350

## S-393.351 PREPARATIONS FOR CONCRETE PLACEMENT

Well in advance of each concrete placement, the inspector should review the operations and be assured that nothing has been overlooked that may influence the success of the proposed pour. In general, this review should be made with the Contractor. The Contractor is the responsible party and should give the orders for any corrections or preparations necessary. The review should include items contained in the following list, some of which may have been made before the initial placement.

1. The time of day that the placement is to be started should be determined and the completion time estimated.
2. Approved concrete materials in quantities adequate to complete the placement must be available. The aggregates must be approved, cement must be the proper brand and either approved or sampled according to the Concrete Manual. A small quantity of the air entraining agent, retarder or other admixture used should be available at the bridge site when Type 3 (air-entrained) concrete is mixed away from the site.
3. Time-settlement delays after embankment construction at abutments or piers may be required by the Special Provisions. A check should be made to ensure that any such requirements are fulfilled prior to footing placements. In addition, the soil must be compacted as required in Specification 2451.3.B. and D for all spread footings placed on soil; this includes footings on natural soil as well as footings on embankments.
4. Pumps, with sumps outside the formed area, should be provided when necessary to keep footing areas dewatered. The water level must be kept below the bottom of the proposed pour for succeeding casts. All concrete, except concrete seals, should be placed "in the dry" except as permitted by Plan or Special Provisions.
5. Concrete mixing equipment should be checked as required in [S-694.400](#) of the Concrete Manual.
6. The concrete delivery or production rate should be coordinated with the rate of placement permitted by the form plans or coordinated with a rate of placement that will permit proper finishing with available personnel and equipment. The Special Provisions may require a minimum rate of placement for placements of large seals, decks or piers. In this case, equipment and personnel must be available and the forms must be designed so that the minimum rate of placement can be maintained.
7. The rate of delivery should be fairly uniform. Ready-mix trucks should be scheduled to leave the plant at spaced intervals, not in groups. A check should be made on the cubic yards required up to the cut-off point when a delay is required in concrete placement. An example might be the top of pier columns when the pier cap is to be placed monolithically with the columns. The extent of the delay period will depend on the setting time of the concrete and the rate of pour. The minimum delay period of one hour, required by Specifications, should be scheduled for hot weather and a slow to medium (up to 1.5 m per hour) rate of pour. A maximum delay period of 1 1/2 hours should be used for higher rates of pour and/or lower temperatures. The purpose of this delay is to permit maximum water release and consolidation of the concrete in the columns or walls prior to placement of concrete in the cap.
8. The use of concrete additives such as retarders for deck placements and Type III cement for cold weather placements should be discussed with the Concrete Engineer. All admixtures including air entraining must be approved.
9. Placing equipment should be reviewed to ensure that proper methods of placing are used. The possibility of a break-down in placing equipment should be discussed, as well as the availability of replacement equipment. If concrete is being placed for a critical falsework design (slab span, box girder, rigid frame or concrete arch) by means of a pump, the contractor may be required by the engineer to have a standby pump at the site.
10. Approved finishing tools and equipment must be provided. Strike-offs must have the proper crown or straightness. Longitudinal floats and straightedges must be true. The necessity for small tools such as darbies, hand floats, trowels, edgers and brooms, together with bridges to work from, must not be overlooked. Lack of an edger or specified radius for curbs and sidewalks can be very troublesome, and edgers are almost impossible to improvise on short notice. Edgers should be long enough and wide enough to permit slight variations in pressure without causing dips and gashes.
11. The number of concrete finishers necessary should be discussed, since this directly affects the rate of finishing.
12. When finishing must be done in poorly windowed housing, or it is anticipated that finishing may be required at night, adequate artificial lighting should be provided.
13. Procedures to follow in case of rainfall before the concrete has set up should be discussed with the Contractor. Deck slabs should be given careful consideration due to the large area that may be exposed and the extensive damage that may result from running water. Plastic sheeting or other protective covering should be on hand at the bridge site.

# Concrete Bridge Construction Manual

**E. Pennells**

## **Concrete Bridge Construction Manual:**

**The Manual of Bridge Engineering** M. J. Ryall, G. A. R. Parke, J. E. Harding, 2000 Bridge type behaviour and appearance David Bennett David Bennett Associates History of bridge development Bridge form Behaviour Loads and load distribution Mike Ryall University of Surrey Brief history of loading specifications Current code specification Load distribution concepts Influence lines Analysis Professor R Narayanan Consulting Engineer Simple beam analysis Distribution co efficient Grillage method Finite elements Box girder analysis steel and concrete Dynamics Design of reinforced concrete bridges Dr Paul Jackson Gifford and Partners Right slab Skew slab Beam and slab Box Design of prestressed concrete bridges Nigel Hewson Hyder Consulting Pretensioned beams Beam and slab Psedu slab Post tensioned concrete beams Box girders Design of steel bridges Gerry Parke and John Harding University of Surrey Plate girders Box girders Orthotropic plates Trusses Design of composite bridges David Collings Robert Benaim and Associates Steel beam and concrete Steel box and concrete Timber and concrete Design of arch bridges Professor Clive Melbourne University of Salford Analysis Masonry Concrete Steel Timber Seismic analysis of design Professor Elnashai Imperial College of Science Technology and Medicine Modes of failure in previous earthquakes Conceptual design issues Brief review of seismic design codes Cable stayed bridges Daniel Farquhar Mott Macdonald Analysis Design Construction Suspension bridges Vardaman Jones and John Howells High Point Rendel Analysis Design Construction Moving bridges Charles Birnstiel Consulting engineer History Types Special problems Substructures Peter Lindsell Peter Lindsell and Associates Abutments Piers Other structural elements Robert Broome et al WS Atkins Parapets Bearings Expansion joints Protection Mike Mulheren University of Surrey Drainage Waterproofing Protective coating systems for concrete Painting system for steel Weathering steel Scour protection Impact protection Management systems and strategies Perrie Vassie Transport Research Laboratory Inspection Assessment Testing Rate of deterioration Optimal maintenance programme Prioritisation Whole life costing Risk analysis Inspection monitoring and assessment Charles Abdunur Laboratoire Central Des Ponts et Chauss es Main causes of deterioration Investigation methods Structural evaluation tests Stages of structural assessment Preparing for recalculation Repair and Strengthening John Darby Consulting Engineer Repair of concrete structures Metal structures Masonry structures Replacement of structures

*Innovative Bridge Design Handbook* Alessio Pipinato, 2015-11-11 As known each bridge presents a unique set of design construction and maintenance challenges The designer must determine the appropriate methods and level of refinement necessary to design and analyze each bridge on a case by case basis The Innovative Bridge Design Handbook Construction Rehabilitation and Maintenance encompasses the state of the art in bridge design construction maintenance and safety assessment Written by an international group of experts this book provides innovative design approaches used in various parts of the world and explores concepts in design construction and maintenance that will reduce project costs and increase structural safety and durability Furthermore research and innovative solutions are described throughout chapters

The Innovative Bridge Design Handbook Construction Rehabilitation and Maintenance brings together the specific knowledge of a bevy of experts and academics in bridge engineering in the areas of design assessment research and construction. The handbook begins with an analysis of the history and development of bridge aesthetics and design. Various types of loads including seismic and wind loads are then described together with fatigue and fracture. Bridge design based on material such as reinforced concrete, prestressed reinforced concrete, steel and composite timber masonry bridges is analyzed and detailed according to international codes and standards. Then bridge design based on geometry such as arch bridges, girders, cable stayed and suspension bridges is illustrated. This is followed by a discussion of a number of special topics including integral, movable, highway and railway bridges together with seismic component devices, cables, orthotropic decks, foundations and case studies. Finally bridge construction equipment, bridge assessment, retrofit and management, bridge monitoring, fiber reinforced polymers to reinforce bridges, bridge collapse issues are covered. Loads including seismic and wind loads, fatigue and fracture, local effects, Structural analysis including numerical methods, FEM, dynamics, risk and reliability, innovative structural typologies. Bridge design based on material type RC and PRC, steel and composite timber and masonry bridges. Bridge design based on geometry arch bridges, girders, cable stayed and suspension bridges. Special topics integral, movable, highway, railway bridges, seismic component devices, cables, orthotropic decks, foundations. Construction including construction case studies, construction equipment, bridge assessment, bridge management, retrofit and strengthening, monitoring procedures. **Concrete Bridge Designer's Manual** E. Pennells, 2003-09-02. This book gives bridge engineers clear guidance on design and includes 88 data sheets of design information, charts and check lists.

**Handbook of International Bridge Engineering** Wai-Fah Chen, Lian Duan, 2013-10-11. This comprehensive and up to date reference work and resource book covers state of the art and state of the practice for bridge engineering worldwide. Countries covered include Canada and the United States in North America, Argentina and Brazil in South America, Bosnia, Bulgaria, Croatia, Czech Republic, Denmark, Finland, France, Greece, Macedonia, Poland, Russia, Serbia, Slovakia and Ukraine in the European continent, China, Indonesia, Japan, Chinese Taipei and Thailand in Asia and Egypt, Iran and Turkey in the Middle East. The book examines the use of different materials for each region including stone, timber, concrete, steel and composite. It examines various bridge types including slab, girder, segmental, truss, arch, suspension and cable stayed. A color insert illustrates select landmark bridges. It also presents ten benchmark comparisons for highway composite girder design from different countries, the highest bridges, the top 100 longest bridges and the top 20 longest bridge spans for various bridge types including suspension, cable stayed, extradosed, arch, girder, movable, bridges, vertical lift, swing and bascule, floating, stress ribbon and timber and bridge construction methods. **Precast Prestressed Concrete Bridge Design Manual**, 1997. *Innovative Bridge Design Handbook* Alessio Pipinato, 2015-12-05. As known each bridge presents a unique set of design, construction and maintenance challenges. The designer must determine the appropriate methods and level of

refinement necessary to design and analyze each bridge on a case by case basis The Innovative Bridge Design Handbook Construction Rehabilitation and Maintenance encompasses the state of the art in bridge design construction maintenance and safety assessment Written by an international group of experts this book provides innovative design approaches used in various parts of the world and explores concepts in design construction and maintenance that will reduce project costs and increase structural safety and durability Furthermore research and innovative solutions are described throughout chapters The Innovative Bridge Design Handbook Construction Rehabilitation and Maintenance brings together the specific knowledge of a bevy of experts and academics in bridge engineering in the areas of design assessment research and construction The handbook begins with an analysis of the history and development of bridge aesthetics and design various types of loads including seismic and wind loads are then described together with fatigue and fracture Bridge design based on material such as reinforced concrete prestressed reinforced concrete steel and composite timber masonry bridges is analyzed and detailed according to international codes and standards Then bridge design based on geometry such as arch bridges girders cable stayed and suspension bridges is illustrated This is followed by a discussion of a number of special topics including integral movable highway and railway bridges together with seismic component devices cables orthotropic decks foundations and case studies Finally bridge construction equipment bridge assessment retrofit and management bridge monitoring fiber reinforced polymers to reinforce bridges bridge collapse issues are covered Loads including seismic and wind loads fatigue and fracture local effects Structural analysis including numerical methods FEM dynamics risk and reliability innovative structural typologies Bridge design based on material type RC and PRC steel and composite timber and masonry bridges Bridge design based on geometry arch bridges girders cable stayed and suspension bridges Special topics integral movable highway railway bridges seismic component devices cables orthotropic decks foundations Construction including construction case studies construction equipment bridge assessment bridge management retrofit and strengthening monitoring procedures

Precast Prestressed Concrete Bridge Design Manual ,1997 **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 Wai-Fah Chen,Lian

Duan,2014-01-24 The second edition of this bestselling 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 and an abundance of worked out examples give readers numerous step by step design procedures Extensively updated and featuring several new chapters this volume Construction and Maintenance covers construction inspection bridge management systems health monitoring ratings strengthening and rehabilitation life cycle analysis and much more Handbook of Concrete Bridge Management Fernando A. Branco,Jorge de Brito,2004

Handbook of Concrete Bridge Management provides complete coverage of concrete bridges from planning design repair maintenance and demolition with a focus on small and medium size bridges This handbook offers a global overview of bridge management based on the knowledge and experience of the authors as well as presents rational and objective criteria to aid in decision making A classification system concerning defects their causes repair techniques and diagnosis methods is included Project managers structural engineers highway engineers and all other engineers involved with the building maintenance and repair of concrete bridges will benefit from this book About the Authors Fernando A Branco Ph D is professor and head of the Construction Sector at Instituto Superior Tecnico Lisbon Portugal Jorge de Brito Ph D is associate professor at Instituto Superior Tecnico Lisbon Portugal Product Reviews Bridges are expected to perform satisfactorily over their expected life span This practical user oriented handbook helps concrete bridge engineers and managers meet this challenge The key aspects of concrete bridge management are covered in a clear and straightforward way Dan M Frangopol professor of civil engineering University of Colorado at Boulder

Bridge Planning and Design Manual California. Division of Highways,1925 AASHTO Load and Resistance Factor Design Movable Highway Bridge Design Specifications American Association of State Highway and Transportation Officials. Subcommittee on Bridges and Structures,2007

**Construction Manual** California. Department of Transportation. Division of Facilities Construction,1985 Road and Bridge Construction Manual Michigan. State Highway Department,1961

*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

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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 *Construction Manual for Highway Bridges and Incidental Structures* American Association of State Highway Officials. Operating Subcommittee on Bridges and Structures,1973 *Current and Future Trends in Bridge Design, Construction and Maintenance 2: Safety, Economy, Sustainability and Aesthetics* Institute of Civil Engineers,Highways Agency and International Association for Bridge Maintenance and Safety,2001-12-14 The Institution of Civil Engineers has organised a series of conferences to celebrate at the start of the New Millennium the enormous achievements made in the field of bridge engineering in recent years This volume of papers from the second of these conferences held in Hong Kong encompasses the state of the art in bridge design construction maintenance and safety assessment It includes papers on major bridge schemes both completed and under construction and on innovative approaches used in various parts of the world It also looks at local and regional projects and bridge related issues The wealth of information contained in this publication will be of interest to bridge consultants and contractors practising engineers researchers and bridge owners both local and international **Engineering and Contracting** Halbert Powers Gillette,1915

**Bulletin: Bridge manual. 1916** Oregon State Highway Commission,1916 Bridge Engineering Handbook 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

This book delves into Concrete Bridge Construction Manual. Concrete Bridge Construction Manual is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Concrete Bridge Construction Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

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- Chapter 2: Essential Elements of Concrete Bridge Construction Manual
- Chapter 3: Concrete Bridge Construction Manual in Everyday Life
- Chapter 4: Concrete Bridge Construction Manual in Specific Contexts
- Chapter 5: Conclusion

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5. In chapter 4, this book will scrutinize the relevance of Concrete Bridge Construction Manual in specific contexts. The fourth chapter will explore how Concrete Bridge Construction Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Concrete Bridge Construction Manual. This chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Concrete Bridge Construction Manual.

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