

# Precast Segmental Box Girder Bridge Manual

Concrete Box-girder Bridges Concrete Box Girder Bridges Adjacent Precast Concrete Box Beam Bridges Development of Design Specifications and Commentary for Horizontally Curved Concrete Box-girder Bridges Design of Pier Segments in Segmental Hollow Box Girder Bridges Horizontally Curved Steel Box Girder Bridge Evaluation of Prefabricated Composite Steel Box Girder Systems for Rapid Bridge Construction Steel/concrete Composite Box-girder Bridges Structural Behavior of a Box Girder Bridge Analysis of Continuous Box Girder Bridges Design Guide for Composite Box Girder Bridges Testing and Analysis of a Continuous Prestressed Concrete Box Girder Bridge Informal Meeting on Steel Box Girder Bridges Structural Model of a Prestressed Concrete Box Girder Bridge Design Example, Horizontally Curved Steel Box Girder Bridge Precast Segmental Box Girders Evaluation of Improved Shear Key Designs for Multi-beam Box Girder Bridges Continuous Reinforced Concrete Box Girder Bridge Design ... Analysis of Box Girder and Truss Bridges Design of a Multi-span Post Tensioned Box Girder Bridge *Jörg Schlaich Oris H. Degenkolb H. G. Russell Nutt, Redfield, and Valentine Nigatu Chaffo Benjamin S. Pavlich United States Steel Corporation Raymond E. Davis Alex C. Scordelis D. C. Iles M. J. N. Priestley Institution of Civil Engineers (Great Britain) M. J. N Priestley Dann H. Hall Fadzli Mohamed Nazri Verne N. Engstrom Guohao Li Gerard Whyte* Concrete Box-girder Bridges Concrete Box Girder Bridges Adjacent Precast Concrete Box Beam Bridges Development of Design Specifications and Commentary for Horizontally Curved Concrete Box-girder Bridges Design of Pier Segments in Segmental Hollow Box Girder Bridges Horizontally Curved Steel Box Girder Bridge Evaluation of Prefabricated Composite Steel Box Girder Systems for Rapid Bridge Construction Steel/concrete Composite Box-girder Bridges Structural Behavior of a Box Girder Bridge Analysis of Continuous Box Girder Bridges Design Guide for Composite Box Girder Bridges Testing and Analysis of a Continuous Prestressed Concrete Box Girder Bridge Informal Meeting on Steel Box Girder Bridges Structural Model of a Prestressed Concrete Box Girder Bridge Design Example, Horizontally Curved Steel Box Girder Bridge Precast Segmental Box Girders Evaluation of Improved Shear Key Designs for Multi-beam Box Girder Bridges Continuous Reinforced Concrete Box Girder Bridge Design ... Analysis of Box Girder and Truss Bridges Design of a Multi-span Post Tensioned Box Girder Bridge *Jörg Schlaich Oris H. Degenkolb H. G. Russell Nutt, Redfield, and Valentine Nigatu Chaffo Benjamin S. Pavlich United States Steel Corporation Raymond E. Davis Alex C. Scordelis D. C. Iles M. J. N. Priestley Institution of Civil Engineers (Great Britain) M. J. N Priestley Dann H. Hall Fadzli Mohamed Nazri Verne N. Engstrom Guohao Li Gerard Whyte*

at head of title national cooperative highway research program

this report provides specifications commentary and examples for the design of horizontally curved concrete box girder highway bridges the report details the development of the design procedures recommended load and resistance factor design lrfd specifications and design examples illustrating the application of the design methods and specifications are included in appendixes available on the trb website at trb.org/news/blurb\_detail.asp?id=9596

this book explores the fundamentals of the elastic behaviour of erected precast segmental box girders sbg when subjected to static load as well as the construction process casting and erection work involved it analyzes and compares the experimental results with those obtained using the finite element method and theoretical calculations a short term deflection analysis for different loads is obtained by determining the maximum deflection stress and strain value of single span precast sbg under a variety of transversal slope the outcome of this work provides a better understanding of the behaviour of precast sbg in terms of structural responses as well as defects so that maintenance work can then be focused on the critical section at mid span area specifically for the bridge project longitudinally and transversely the book is of interest to industry professionals involved in conducting static load tests on bridges and all researchers designers and engineers seeking to validate experimental work with numerical and analytical approaches

laboratory tests were conducted to investigate the problem of shear key failure in multi beam prestressed box girder bridges and to propose a new shear key design failure of shear keys will typically not only compromise the load sharing mechanism between adjacent girders but also may lead to the failure of the deck waterproofing system with attendant corrosion problems the tests consisted of monitoring relative displacements occurring across intergirder joints produced by a simulated concentrated wheel load

this book reflects the practical experience the authors have gained in analyzing the box girder and the truss used in bridge engineering the straight and curved box girder bridge the truss bridge and the arch stiffened truss bridge are considered whereby bending and torsional stresses lateral buckling and vibrations are investigated the authors have established a more accurate thin walled beam theory of box girder and as an extension of the thin walled beam theory developed a theory of bending and torsion of the truss bridge many practical examples have been analyzed and from these results conclusions valuable to design practice have been deducted

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