Purpose: This Handbook was developed by a 25 member ASBI Committee with the purpose of providing comprehensive coverage of the state-of-the-art for construction and inspection practices related to all types of segmental concrete bridges.

This handbook...
- Describes and illustrates construction practices for:
  - Precast span-by-span bridges
  - Precast balanced cantilever bridges
  - Cast-in-place balanced cantilever bridges
  - Incrementally launched segmental bridges
  - Concrete cable-supported bridges
- Provides detailed guidance for setting up casting yards for precast segmental bridges, as well as each step in the process of producing and erecting segments.
- Contains comprehensive description of procedures for post-tensioning and grouting of tendons, including up-to-date recommendations for corrosion protection.
- Includes construction inspection guidelines.

Handbook Organization
Two sections contain all the relevant information for construction and inspection of segmental Concrete bridges:

I. “Construction Practices Handbook for Concrete Segmental and Cable Supported Bridges” — 425 pp
   (See reverse side for Chapter titles)

II. “FHWA Post Tensioning Tendon Installation and Grouting Manual” — 161 pp
   (See reverse side for Chapter titles)

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CONSTRUCTION PRACTICES HANDBOOK FOR CONCRETE SEGMENTAL AND CABLE-SUPPORTED BRIDGES

Section I  Construction Practices Handbook for Concrete Segmental and Cable Supported Bridges — 425 pp

Chapter 1  Introduction and Overview of Segmental Construction
Chapter 2  Terminology
Chapter 3  Construction of Precast Span-by-Span Bridges
Chapter 4  Construction of Precast Balanced Cantilever Bridges
Chapter 5  Construction of Cast-in-Place Balanced Cantilever Bridges
Chapter 6  Incremental Launching of Segmental Bridges
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Chapter 8  Segmental Substructures
Chapter 9  Production of Precast Segments
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Chapter 12  Epoxy Jointing, Duct Coupler Devices, and Prepackaged Grout
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Chapter 16  Construction Engineering Inspection of Segmental Construction
Chapter 17  Construction Inspection Guidelines for Segmental Concrete Bridges

Section II  FHWA Post Tensioning Tendon Installation and Grouting Manual — 161 pp

Chapter 1  Introduction
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Appendix A  Terminology
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Appendix E  Bibliography

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