

Seminar

March 21-22, 2022
Seattle, Washington



CONSTRUCTION PRACTICES FOR SEGMENTAL CONCRETE BRIDGES

The purpose of this Seminar is to provide guidance for construction of concrete segmental bridges. Although the segmental construction concept is generally very simple, the construction technology involved is, in numerous ways, more demanding than that required for other types of technology used in the industry. The use of concrete segmental bridge construction continues to grow throughout the United States and Canada. Increased use of this technology has led to a need to provide industry standard information for use by contractors, inspectors, quality control staff, and owners. In the interest of educating the industry, sharing best practices, and standardizing methods, this Seminar is intended to provide a basic understanding of segmental construction technology. The overall goal is to facilitate the construction process, avoid common difficulties previously encountered, and reduce impacts to projects. The Construction Practices Handbook is intended to be an industry guide aimed at focusing on specific aspects of the technology based on past experience.

DAY 1

Morning Session

WELCOME AND ASBI COURSE INTRODUCTION

**SESSION 1—CAST-IN-PLACE SEGMENTAL CONSTRUCTION
SEGMENTAL OVERVIEW**

CAST-IN-PLACE SEGMENTAL CONSTRUCTION

**SESSION 2—PRECAST SEGMENTAL CONSTRUCTION
SPAN-BY-SPAN ERECTION**

BALANCED CANTILEVER ERECTION

Afternoon Session

**SESSION 2—PRECAST SEGMENTAL CONSTRUCTION (CONTINUED)
PRODUCTION OF PRECAST SEGMENTS**

**EQUIPMENT FOR HANDLING, TRANSPORTING AND ERECTING
PRECAST SEGMENTAL BRIDGES**

**SESSION 3—SEGMENTAL DETAILS
GEOMETRY CONTROL**

POST-TENSIONING DETAILS

EXPANSION JOINT AND BEARING SYSTEM SELECTION

INSPECTION—QC/QA

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DAY 2

Morning Session

SESSION 4—SPECIALIZED SEGMENTAL STRUCTURES
CABLE STAY
SEGMENTAL SUBSTRUCTURES
INCREMENTAL LAUNCH
SESSION 5—PROJECT SPOTLIGHT
SESSION 6—LESSONS LEARNED
CONTRACTOR PERSPECTIVE
OWNER PERSPECTIVE

Professional Engineering Development Hours

For Professional Engineers, we will provide certificates for 10 professional development hours on request for use in meeting Professional Engineering Registration requirements.