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# CHAPTER 8

## CONCRETE STRUCTURES AND FOUNDATIONS<sup>1</sup>

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### FOREWORD

The material in this chapter is written with regard to typical North American Railroad Concrete Structures and Foundations, and other related structures and facilities.

- Nonbearing Walls
- Typical Road Abutment (single and double bents), and
- Types of Bridge (up to 100 ft) and (single and double bents)

Additional special provisions for special higher than those listed above may be added to the Chapter Introduction.

This chapter is presented in 2 sections. Section 1 is a descriptive account of various subjects, including design methods and construction procedures. Section 2 is a descriptive account of various types of structures and facilities, including design and construction procedures. These recommendations are intended for general use and might not provide sufficient details for all special conditions. Professional judgment must be exercised when applying the recommendations of this chapter as part of an overall solution to any particular case.

This chapter is published separately, incorporating no other parts of the previous code. The first published edition of this chapter should be used, regardless of the type of the existing structure. The purpose of publishing technical recommendations under such an existing structure was to have them built and maintained. It was never intended to require previous editions of the chapter. However, when technical recommendations differ from the recommendations contained in the more published editions of the chapter, the recommendations of the latest published edition of the chapter should be used.

Part 1, *Single Span Concrete Bridges*, was derived from the revised Part 10 (1975) Part 4, *Concrete Structures*. Part 2 was derived from the revised Part 10 (1975) Part 11, *Concrete Bridge Structures*. Part 11, *Concrete Bridge Structures*, was derived from Chapter 10 of the 1964 Code.

<sup>1</sup> The scope of the separate chapters in this volume should be fully understood in relation to the recommendations contained in the previous editions of the code. The recommendations in this volume are intended to be used in conjunction with the recommendations in the previous editions of the code. The recommendations in this volume are intended to be used in conjunction with the recommendations in the previous editions of the code. The recommendations in this volume are intended to be used in conjunction with the recommendations in the previous editions of the code. The recommendations in this volume are intended to be used in conjunction with the recommendations in the previous editions of the code.

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