
CHAPTER 8

CONCRETE STRUCTURES AND FOUNDATIONS¹

FOREWORD

The material in this chapter is written with regard to typical North American Railroad Concrete Structures and Foundations and other structures mentioned herein with:

- Standard Gage Track,
- Normal North American passenger and freight equipment, and
- Speeds of freight trains up to 80 mph and passenger trains up to 90 mph.

Additional special provisions for speeds higher than those listed above may be added by the Engineer as necessary.

This chapter is presented as a consensus document by a committee composed of railroad industry professionals having substantial and broad-based experience designing, evaluating, and investigating Concrete Structures and Foundations used by railroads. The recommendations contained herein are based upon past successful usage, advances in the state of knowledge, and current design and maintenance practices. These recommendations are intended for routine use and might not provide sufficient criteria for infrequently encountered conditions. Professional judgement must be exercised when applying the recommendations of this chapter as part of an overall solution to any particular issue.

This chapter is published annually, incorporating revisions made in the previous year. The latest published edition of the chapter should be used, regardless of the age of an existing structure. For purposes of determining historical recommendations under which an existing structure may have been built and maintained, it can prove useful to examine previous editions of the chapter. However, when historical recommendations differ from the recommendations contained in the latest published edition of the chapter, the recommendations of the latest published edition of the chapter should be used.

Part 8, Rigid Frame Concrete Bridges was deleted from the manual in 1975. Part 9, Reinforced Concrete Trestles was deleted from the manual in 1971. Part 15 is reserved for future use. Part 18, Elastomeric Bridge Bearings was moved to Chapter 15 in 2001.

¹ The material in this and other chapters in the AREMA Manual for Railway Engineering is published as recommended practice to railroads and others concerned with the engineering, design and construction of railroad fixed properties (except signals and communications), and allied services and facilities. For the purpose of this Manual, RECOMMENDED PRACTICE is defined as a material, device, design, plan, specification, principle or practice recommended to the railroads for use as required, either exactly as presented or with such modifications as may be necessary or desirable to meet the needs of individual railroads, but in either event, with a view to promoting efficiency and economy in the location, construction, operation or maintenance of railroads. It is not intended to imply that other practices may not be equally acceptable.

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Patrick Vollmar



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