

AMTRAK ENGINEERING PRACTICES Structures Department Standard Design Practices (SDP)	Section 3 – Minimum Technical Requirements	EP4000
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Introduction to Amtrak Structures Department’s Minimum Technical Requirements

The purpose of the following Minimum Technical Requirements is to establish standard minimum design criteria to produce and document designs, including development of both prescriptive specifications and/or performance specification sections, that may differ from, augment, or explain Amtrak’s application of adopted codes (EP4000 Section 2.00) as well as State and Local codes and standards. Similar to the direction in Section 2.00, follow the Design Exception Request (DER) process for deviations from the provided Minimum Technical Requirements of this Section.

The information provided is intended to represent Amtrak-unique minimum standards. The Design Contractor shall also incorporate current industry standards and practices for any portion of the design that may not be addressed by applicable local codes and standards.

The Minimum Standards included in this Section are only intended to serve as guidelines for the creation of drawings and specifications by the Design Contractor. These guidelines do not represent any complete specification section, nor do they represent a complete list of all specification sections that may be required for the project, but rather provide information (organized approximately in parallel to the Masterspec standardized construction specification chapter sequencing) that shall be incorporated into the construction documents and used to create prescriptive or performance specifications, as applicable in accordance with EP4000, Section 1.00. The Design Contractor shall use the developed specifications in conjunction with other Amtrak Performance Specifications (if/as established) in creating a complete set of drawings and specifications that are specific to the project for which they have been contracted.

At a minimum, the following sections shall be included (and redlined by the Design Contractor for Amtrak DM/PM review and acceptance) within the Project Specifications to suit the individual project:

- 011000 – Summary of Work
- 012500 – Substitution Procedures
- 013000 – Project Management and Coordination
- 013513.23 – Special Procedures for Railroad Facilities
- 013543 – Environmental Procedures
- 014000 – Quality Requirements
- 015000 – Temporary Facilities and Controls
- 017300 – Execution
- 017700 – Closeout Procedures
- 017839 – Project Record Documents
- 019113 – General Commissioning Requirements

These specification sections shall be included for all projects unless specifically omitted by the Design Manager (DM). Additional Division 1 specifications shall also be included as required based on specific project design requirements. [Template Division 1 Specifications can be retrieved by the Project Manager or Design Manager \(Amtrak internal link\).](#)