

PROJECT PLANS, SPECIFICATIONS AND ESTIMATES

This policy provides direction concerning the design of capital projects and for preparing and approving contract plans, specifications, and cost estimates.

Section 14085 et seq. of the California Government Code states that whenever any public entity is to receive state or federal funds for the purposes of project planning, design, rights-of-way, construction, acquisition, or improvement of exclusive public mass transit guideways (and their related fixed facilities, power systems, passenger facilities, vehicles, and equipment), it shall prepare plans for the complete project that are applicable to the type of project, and transmit them to the Department of Transportation or other appropriate oversight agency for its review and approval of policies, procedures, and performance standards, prior to the implementation of the project or the project phases affected. This policy is intended to cover the following components of Section 14085: preliminary engineering investigations; plans, specifications, and cost estimates.

Procedures

1. Plans, specifications, and estimates (PS&Es) for SANDAG projects shall be prepared in the most functional and timely manner possible, by competent engineers in any combination of other public agency staff, consultants, or SANDAG staff as appropriate.
2. PS&Es shall generally be prepared in accordance with SANDAG policies, procedures, and standards and/or accepted practices as defined by major project administrators, such as Caltrans, North County Transit District (NCTD), and/or Metropolitan Transit System (MTS).
3. Design criteria shall be in compliance with accepted engineering standards, laws, practices applicable to transportation systems, and SANDAG design manuals. In the case of projects to be constructed on the NCTD/MTS-owned railroad right-of-way, such design standards shall include, but not be limited to:
 - 3.1 NCTD's/MTS's adopted *System Safety Program Plan*
 - 3.2 49 CFR Part 213: Track Safety Standards
 - 3.3 49 CFR Part 236: Installation, Inspection Maintenance and Repair of Signal and Train Control Systems, Devices, and Appliances
 - 3.4 Amtrak MW 1000 Limits and Specifications for the Safety, Maintenance, and Construction of Track
 - 3.5 *SDNR Bridge Inspection* and *SDNR Signal Maintenance, Inspection, and Testing Manuals*
 - 3.6 American Railway Engineering and Maintenance-of-Way Association (AREMA) standards
 - 3.7 California Public Utilities Commission (CPUC) general orders and standards as applicable

- 3.8 Americans with Disabilities Act statutes and regulations
- 3.9 Approved SANDAG Design Criteria
- 4. As a guideline, PS&E packages should generally contain the following:
 - 4.1 Plans – The official project plans and Standard Plans and Profiles, typical cross sections, general cross sections, working drawings and supplemental drawings, or reproductions thereof, approved by the responsible engineer licensed in California, which show the location, character, dimensions and details of the work to be performed.
 - 4.2 Specifications – Special provisions shall contain specific clauses setting forth conditions or requirements peculiar to the work and supplementary to the standard specifications. Standard Specifications shall provide the directions, provisions and requirements contained in published documents setting forth conditions and requirements that are reoccurring in like work.
 - 4.3 Estimate – The engineer's estimate shall list the estimated quantities of work to be performed and estimated costs of each item and for the total project construction.

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