



Presidio Parkway Project  
Public-Private Agreement  
Volume III (Manuals and Guidelines)

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## 1. INTRODUCTION

The following pages provide a non exclusive list of Manuals and Guidelines to be used for the Project

### 1.1. California Department of Transportation (Caltrans)

- 2006 (US Customary Limits), Standard Plans, Including New Standard Plans and Revised Standard Plans
- Approved Chemical List
- Bridge Construction Records and Procedures
- Bridge Deck Construction Manual
- Bridge Design Aids
- Bridge Design Details
- Bridge Design Practice
- Bridge Design Specifications
- Bridge Memo to Designers
- Bridge Standard Detail Sheets
- CADD Users Manual – US Customary Units (English).
- California Amendments to the AASHTO LRFD Bridge Design Specifications
- California Test Methods (CTM)
- Caltrans Code of Safe Surveying Practices
- Construction Manual
- Construction Site Best Management Practices (BMPs) Manual
- Design-Build Modifications to the Standard Specifications for Construction
- Design Information Bulletin DIB 83-01 Caltrans Supplement to FHWA Culvert Repair Practices Manual (Updated 10-02-2006)
- Division of Engineering Services (DES) Memo to Designers 1-35, Foundation Recommendation and Reports
- Division of Engineering Services (DES) Memo to Designers 3-1, Deep Foundations
- Division of Engineering Services (DES) Memo to Designers 4-1, Spread Footings
- Division of Engineering Services (DES) Memo to Designers 5-20, Foundation Report / Geotechnical Design Report Checklist for Earth Retaining Systems
- Division of Engineering Services (DES) Memo to Designers 20-1, Seismic Design Methodology
- Division of Engineering Services (DES) Memo to Designers 20-10, Surface Fault Rupture Displacement Hazard Investigations
- Division of Engineering Services (DES) Memo to Designer 20-12 Site Seismicity for Existing and Temporary Bridges carrying Public Vehicular Traffic
- Doyle Drive Tree Removal Plan
- Falsework Manual

- Fiber Optics Design Guidelines
- Fish Passage Design for Road Crossings
- Foundation Manual
- Guidelines for Preparing Geotechnical Design Reports
- Guidelines for Structures Foundation Reports
- Highway Design Manual
- HOV Guidelines for Planning, Design and Operations
- Landscape Architecture Program PS&E Guide
- Level of Service Handbook (LOS2000)
- Maintenance Manual
- Manual for Quality Control and Quality Assurance for Asphalt Concrete
- Manual of Traffic Controls for Maintenance and Work Zones
- Manual on Uniform Traffic Control Devices (MUTCD)
- New Policy and Directives (Pavement Delineation and Singing)
- Office of Special Funded Projects Information and Procedures Guide
- Outline of Field Construction Practices
- Plans Preparation Manual US Customary Units (English)
- Plant Setback and Spacing Guide
- Prestress Manual, a Guide for Field Inspection of Cast in Place Tensioned Structures.
- Project Development Procedures Manual (PDPM)
- Project Plans for Plant Collection, Salvaging, and Propagation
- Ramp Meter Design Manual
- Ready To List and Construction Contract Award Guide (RTL Guide)
- Reference Sheets for Structural Design Aids Overhead and Roadside Signs
- Safety Manual
- Seismic Design Criteria
- Sign Specifications
- Signal Design Detail Sheets
- Signal, Lighting and Electrical Systems Design Guide
- Signals, Lighting and Electrical Systems (ES Sheets)
- Soil and Rock Logging, Classification, and Presentation Manual
- Standard Environmental Reference
- Standard Highway Signs
- Standard Special Provisions
- Standard Specifications, (May 2006 Edition)
- Stormwater Pollution Prevention Plan (SWPPP) and Water Pollution Control Program (WPCP) Preparation Manual
- Storm Water Quality Handbook: Project Planning and Design Guide

- Structural Detailing Standards
- Surveys Manual
- Traffic Manual
- Transportation Electrical Equipment Specifications (TEES);
- Trenching and Shoring Manual

**1.2. American Association of State Highway and Transportation Officials (AASHTO)**

- A Guide for Transportation Landscape and Environmental Design
- A Policy on Geometric Design of Highway and Streets
- Bridge Welding Code, D1.5
- LRFD Bridge Construction Specifications
- LRFD Bridge Design Specifications
- Manual of Subsurface Investigations
- Model Drainage Manual
- Roadside Design Guide
- Roadway Lighting Design Guide
- Standard Specifications for Structural Supports for Highway Signs, Luminaries and Traffic Signals
- Standard Specifications for Transportation Materials and Methods of Sampling and Testing
- Structural Welding Code – steel, D1.1

**1.3. American National Standards Institute (ANSI)**

- C2-81 National Electrical Safety Code
- Illuminating Engineering Society of North America Roadway Lighting ANSI Approved Standards, Guides and Documents

**1.4. American Petroleum Institute (API)**

- Recommended Practice for Planning, Design and Constructing Fixed Offshore Platforms – Working Stress Design

**1.5. American Society for the Testing of Materials (ASTM)**

- D1452 Standard Practice for Soil Exploration and Sampling by Auger Borings
- D1586 Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils
- D1587 Standard Practice for Thin-Walled Tube Sampling of Soils for Geotechnical Purposes

- D2113 Standard Practice for Rock Core Drilling and Sampling of Rock for Site Investigation
- D3550 Standard Practice for Thick Wall, Ring-Lined, Split Barrel, Drive Sampling of Soils
- D3740 Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction
- D4220 Standard Practices for Preserving and Transporting Soil Samples
- D5079 Standard Practices for Preserving and Transporting Rock Core Samples
- D5778 Standard Test Method for Electronic Friction Cone and Piezocone Penetration Testing of Soils
- D5782 Standard Guide for Use of Direct Air-Rotary Drilling for Geoenvironmental Exploration and the Installation of Subsurface Water-Quality Monitoring Devices
- D5783 Standard Guide for Use of Direct Rotary Drilling with Water-Based Drilling Fluid for Geoenvironmental Exploration and the Installation of Subsurface Water-Quality Monitoring Devices
- D5876 Standard Guide for Use of Direct Rotary Wireline Casing Advancement Drilling Methods for Geoenvironmental Exploration and Installation of Subsurface Water-Quality Monitoring Devices
- D6151 Standard Practice for Using Hollow-Stem Augers for Geotechnical Exploration and Soil Sampling
- D6519 Standard Practice for Sampling of Soil Using the Hydraulically Operated Stationary Piston Sampler
- D7015 Standard Practices for Obtaining Intact Block (Cubical and Cylindrical) Samples of Soils

**1.6. American Society of Heating, Refrigerating, and Air Conditioning Engineers (ASHRAE)**

- Handbook

**1.7. American Wood Protection Association (AWPA)**

- T1 Treatment Standard
- U1 User Specification for Treated Wood

**1.8. Bay Area Air Quality Management District**

- California Environmental Quality Act Air Quality Guidelines.

**1.9. California Air resources Board (CARB)**

- Suggested Control Measure

**1.10. Electronic Industries Alliance (EIA)**

- Standards

**1.11. Federal Highway Administration (FHWA)**

- Checklist and Guidelines for Review of Geotechnical Reports and Preliminary Plans and Specifications
- Design and Construction of Driven Pile Foundations, Volumes I and II
- Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes
- Drilled Shafts: Construction Procedures and Design Methods
- Geotechnical Engineering Circular No. 2, Earth Retaining Systems
- Geotechnical Engineering Circular Number 4, Ground Anchors and Anchored Systems
- Geotechnical Engineering Circular No 5, Evaluation of Soil and Rock Properties
- Handbook on Design and Construction of Drilled Shafts Under Lateral Load
- Hydraulic Design and Procedures Publications
- Hydraulic Engineering Circular Number 21 (HEC-21) Design of Bridge Deck Drainage Systems
- Manual for Design & Construction of Soil Nail Walls
- National ITS Architecture
- Title 23 Code of Federal Regulations ( and Non Regulatory Supplements) Chapter 1, Part 752 Landscape and Roadside Development
- Traffic Control Systems Handbook

**1.12. Illuminating Engineering Society of North America (IESNA)**

- Lighting Handbook
- LM-50-99 Photometric Measurement of Roadway Lighting Installations
- LM-71-96 Photometric Measurement of Tunnel Lighting Installation
- RP-8 Roadway Lighting
- RP-19 Roadway Sign Lighting
- RP-22 Tunnel Lighting

**1.13. Institute of Electrical and Electronics Engineers (IEEE)**

- 80 Guide for Safety in AC Substation Grounding
- 81 Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials of a Ground System
- 730 Software Quality Assurance Plan
- 830 Recommended Practice for Software Requirements
- 1012 Software Verification and Validation

- 1016 Recommended Practice for Software Design Descriptions

**1.14. Institute of Transportation Engineers (ITE)**

- Traffic Engineering Handbook

**1.15. International Commission on Illumination (CIE)**

- 88 Guide for the Lighting of Road Tunnels and Underpasses

**1.16. International Society of Arboriculture**

- Guide for Plant Appraisal

**1.17. International Standards Organization/ International Organization for Standardization (ISO)**

- 9001 Quality Management Systems
- 14001 Environmental Management Systems
- 14048 Environmental Management – Life Cycle Assessment

**1.18. National Cooperative Highway Research Program (NCHRP)**

- Report 350-Recommended Procedures for the Safety Performance Evaluation of Highway Features
- Synthesis 360, Rock-Socketed Shafts for Highway Structures Foundations

**1.19. National Electrical Manufacturers Association (NEMA)**

- Standards

**1.20. National Fire Protection Association (NFPA)**

- 10: Portable Fire Extinguishers
- 13: Sprinkler Systems
- 14: Installation of Standpipe and Hose Systems
- 20: Installation of Stationary Pumps for Fire Protection
- 24: Installation of Private Fire Service Mains and Their Appurtenances
- 25: Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems
- 30: Flammable and Combustible Liquids Code
- 70 National Electrical Code
- 72 National Fire Alarm and Signaling Code
- 90A: Installation of Air Conditioning and Ventilating Systems
- 92B: Smoke Management Systems In Malls, Atria, And Large Spaces
- 101: Life Safety Code (2009 is current edition);

- 110: Emergency and Standby Power Systems
- 220: Types of Building Construction
- 241: Safeguarding Construction, Alteration and Demolition Operations
- 251: Tests of Fire Resistance of Building Construction and Materials
- 502 Standard for Road Tunnels, Bridges and other Limited Access Highways
- 1600: Disaster/Emergency Management and Business Continuity Programs
- 1963: Fire Hose Connections
- 2001: Clean Agent Fire Extinguishing Systems

**1.21. National Institute of Standards and Technology (NIST)**

- SP 800-82 Guide to Industrial Control Systems (ICS) Security

**1.22. National Parks Service**

- Standards and Guidelines

**1.23. Presidio Trust**

- Policy for Waste Minimization in Construction and Demolition
- Presidio Trust Management Plan
- Presidio Trust Roads & Grounds IPM Program
- Presidio Trust Weed Management Guidelines
- Vegetation Management Plan
- Presidio Trails and Bikeways Master Plan & Environmental Assessment
- South Access to the Golden Gate Bridge Architectural Criteria Report August 2008

**1.24. Secretary of Interior**

- Standards and Guidelines for Archaeological Documentation
- Standards for the Treatment of Historic Properties: with guidelines for the Preservation, Rehabilitation, Restoration and Reconstruction

**1.25. Telecommunications Industries Association (TIA)**

- Standards
- TIA/EIA-455-171A, FOTP-171 Attenuation by Substitution Measurements for Short-Length Multimode Graded-Index and Single Mode Optical Fiber Cable Assemblies;
- TIA/EIA-455-61A, FOTP-61 Measurement of Fiber or Cable Attenuation Using an Optical Time-domain Reflectometer (OTDR).

**1.26. Texas Transportation Institute**

- Intersection Video Detection Manual

**1.27. Transportation Research Board (TRB)**

- Highway Capacity Manual

**1.28. Underwriters Laboratories (UL)**

- 1971 Signaling Devices for the Hearing Impaired

**1.29. U.S. Army Corps of Engineers (US ACE)**

- Wetlands Delineation Manual

**1.30. U.S. Environmental Protection Agency (EPA)**

- Architectural and Industrial Measure

**1.31. U.S. National Renewable Energy Laboratory (USNREL)**

- U.S. Life – Cycle Inventory Database