California High-Speed Train Project

Request for Proposal for Design-Build Services

RFP No.: HSR 11-16
Book 4, Part C, Subpart 1a

Updates to Standard Specifications

Book 4, Part C, Subpart 1, Standard Specifications have been revised in accordance with the tables provided in this document.

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Prepared for
CALIFORNIA High-Speed Rail Authority

Division 2

Specification	Change	Page No	AD#
02 01 00 Standard Specifications General Statements	Article 1.3 USAGE AND DEFINITIONS OF TERMS USED IN THE STANDARD SPECIFICATIONS, added the following words at the end of the last sentence in Paragraph C.: *" or approval"*	1	AD.7
02 01 00 Standard Specifications General Statements	Article 1.3 USAGE AND DEFINITIONS OF TERMS USED IN THE STANDARD SPECIFICATIONS, added new Paragraph L. as follows and re-lettered subsequent paragraphs: *"L. Jurisdictional Authority: As used in the Standard Specifications, jurisdictional authority shall be understood to include governments, public entities, private entities, utilities, and railroads."*	2	AD.7
02 01 00 Standard Specifications General Statements	Article 1.4 REFERENCE STANDARDS, added the following words at the end of the last sentence in Paragraph D.: *" or approval"*	3	AD.7

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Division 3

Specification	Change	Page No	AD#
03 15 23 Concrete Anchors	Provided new Standard Specification *Section 03 15 23 Concrete Anchors*, found in the Book 4 document titled *"AD.3 - B4 - Pt C.1 - Standard Specifications - 03 15 23.pdf"*	New Specification	AD.3

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Division 9

Specification	Change	Page No	AD#
09 96 00 High-Performance Coatings	Provided new Standard Specification *Section 09 96 00 High-Performance Coatings*, found in the Book 4 document titled *"AD.4 - B4 - Pt C.1 - Standard Specifications - 09 96 00 - NEW ADDITION.pdf"*	New Specification	AD.4
09 96 00 High-Performance Coatings	Article 1.6 SUBMITTALS, added new Paragraph L.: *"L. The Independent Coating Inspector shall propose for the Contracting Officer's acceptance a breakdown into areas (portions) for each coating system for the purposes of requiring a separate Surface Preparation and Coating Inspection Record for each area. The Contractor shall utilize the same breakdown in its Field Quality Control."*	09 96 00-3	AD.7

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Division 31

Specification	Change	Page No	AD#
31 09 13 Geotechnical Instrumentation and Monitoring	Article 3.3 MOVEMENT DETECTION INSTRUMENTS - BOREHOLE EXTENSOMETER INSTALLATION, deleted the last sentence of Paragraph E.: *"Individual anchor positions will be subject to acceptance of the Contracting Officer."*	251	AD.7
31 62 00 Driven Piles	Article 1.5 SUBMITTALS, deleted second sentence Paragraph F. and substitute the following sentence. *"Submit copy to the Contracting Officer."*	309	AD.7
31 62 00 Driven Piles	Article 3.3 INDICATOR PILES AND TEST PILES, Paragraph B., revised second sentence to read as follows: *"Determine compression, tension, and lateral capacities of the test piles in accordance with ASTM D1143, ASTM D4945, ASTM D3689, and ASTM D3966."*	312	AD.3
31 62 00 Driven Piles	Article 3.3 INDICATOR PILES AND TEST PILES, deleted the last sentence of Paragraph H.: *"The Contractor shall not order production piles until indicator and test pile data has been reviewed and pile tip elevations are accepted by the Contracting Officer in writing."*	312	AD.7
31 62 00 Driven Piles	Article 3.3 INDICATOR PILES AND TEST PILES, added Paragraph I.: *"I. Remove indicator piles at completion of testing."*	312	AD.3
31 62 00 Driven Piles	Article 3.4 AXIAL COMPRESSION AND TENSION LOAD TESTS, Paragraph C., revised last sentence to read as follows: *"Holes shall be backfilled with Class 3000 concrete."*	313	AD.3
31 62 00 Driven Piles	Article 3.4 AXIAL COMPRESSION AND TENSION LOAD TESTS, first sentence of Paragraph D.1, clarified *"Type E"* to read *"Type C"*.	313	AD.3

Specification	Change	Page No	AD#
31 62 00 Driven Piles	Article 3.4 AXIAL COMPRESSION AND TENSION LOAD TESTS, Paragraph D.2, revised the first sentence to read as follows: *"The maximum test load shall be the ultimate load or twice the service design load whichever is greater as prescribed by the Contractor's geotechnical engineer."*	313	AD.3
31 62 00 Driven Piles	Article 3.4 AXIAL COMPRESSION AND TENSION LOAD TESTS, Paragraph E., revised the third sentence to read as follows: *"The maximum test load shall be the ultimate load or twice the service design load whichever is greater as prescribed by the Contractor's geotechnical engineer."*	313	AD.3
31 62 00 Driven Piles	Article 3.7 INSTALLATION OF PILES, Paragraph F.3, revised the third sentence to read as follows: *"Cut off abandoned pipe 3 feet below the structure, and fill the abandoned pipe with controlled density fill as specified in Section 03 05 15, Portland Cement Concrete."*	316	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 1.2 DEFINITIONS, revised Paragraph D. to read as follows: *"D. In regard to load testing, the term "site" shall be understood to be as defined in the CHSTP Design Criteria in regard to drilled concrete piers and shafts and similar work."*	319	AD.3

Specification	Change	Page No	AD#
31 63 29 Drilled Concrete Piers and Shafts	Article 3.2 METHOD TEST SHAFTS, revised Paragraph A. to read as follows: *"A. Demonstrate the adequacy of methods and equipment proposed to be employed for construction of production shafts by successfully constructing method test shafts in accordance with those requirements set forth in the CHSTP Design Criteria. An acceptance test (refer to "Nondestructive Evaluation" specified in this Section) shall also be performed in method test shafts. Load testing consisting of compression load tests, tension load tests, and lateral load tests shall be performed on the method test shafts. In this case, construction of the method test shafts shall include drilling, placement of reinforcing steel, thread bars, and concrete. Otherwise, after completing drilling of the method test shaft, the test shaft shall be filled with unreinforced concrete in the same manner that production shafts will be constructed."*	325	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 3.2 METHOD TEST SHAFTS, Paragraph C., revised last sentence to read as follows: *"C. Drill method test shafts to the depth of the deepest and the diameter of the largest diameter production drilled shaft indicated on the Construction Drawings."*	325	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 3.2 METHOD TEST SHAFTS, in first sentence of Paragraph D., inserted the word *"method"* prior to the words *"test shafts"*.	325	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 3.2 METHOD TEST SHAFTS, in first sentence of Paragraph G., deleted *"2 feet"* and substituted with *"3 feet"*.	325	AD.3

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Specification	Change	Page No	AD#
31 63 29 Drilled Concrete Piers and Shafts	Article 3.3 LOAD TESTS , deleted Paragraphs A.1, A.2, and A.3 and substituted to read as follows: *"1. Load test using conventional static load tests and Osterberg load cells shall be carried out on the method test shafts as described hereinafter to determine whether or not the shafts can carry and withstand the imposed loads.* *2. Perform load tests for method test shafts (static and lateral loading tests) per site as defined in the CHSTP Design Criteria.* *3. Perform additional load tests as required by the Contractor's geotechnical engineer. Except for shafts required for testing, additional shaft construction for the same structure shall not be permitted until the load tests are completed and the results of the load tests have been reviewed by and are satisfactory to the Contractor's geotechnical engineer and accepted by the Contracting Officer."*	325 and 326	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 3.3 LOAD TESTS, deleted Paragraph B. and substituted to read as follows: *"B. Compression Load Tests: Perform tests in accordance with ASTM D1143. Method of load test shall follow "Quick Load Test Method for Individual Piles" as specified in ASTM D1143, Section 5.6. The test load shall be twice the service load for production shafts and the ultimate load for method test shafts. Test loads may be greater when prescribed by the Contractor's geotechnical engineer. Apply the load in increments equal to 10 percent of the test load, with a constant time interval between increments of 5 minutes. Maintain the test load for not less than 15 minutes, unless the shaft has failed as determined by the Contractor's geotechnical engineer. Remove the test load in increments equal to 25 percent of the test load, with a constant time interval between increments of 5 minutes."*	326	AD.3

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31 63 29 Drilled Concrete Piers and Shafts	Article 3.3 LOAD TESTS, in third sentence of Paragraph C., deleted the word *"design"* and substituted with the word *"service"*.	326	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 3.3 LOAD TESTS, in second sentence of Paragraph C., deleted the word *"design"* and substituted with the word *"service"*.	326	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 3.3 LOAD TESTS, Added Paragraph E. and E.1: *"E. The Osterberg Loadcell Testing: Tests shall be performed by Loadtest, Inc. in general compliance with ASTM D1143 Standard Test Method for Piles Under Static Axial Load using the Quick Load Test Method for Individual Piles. There is no known equal to Osterberg Loadcell Testing performed by Loadtest. The Contractor may perform testing by conventional methods as an alternative to Osterberg Loadcell Testing,* *1. Regarding Osterberg Loadcell Testing, initially the loads shall be applied in increments equaling 5 percent of the anticipated ultimate capacity of the method test shaft. The magnitude of the load increments shall be proposed by Loadtest Inc. and approved by the Contractor's geotechnical engineer. Once approved, the load increments shall not be changed during the test."*	326	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 3.4 EXCAVATION, deleted Paragraph A.1 and renumbered remaining Paragraphs under A.	326	AD.3

Specification	Change	Page No	AD#
31 63 29 Drilled Concrete Piers and Shafts	Article 3.4 EXCAVATION, added the following sentence at the end of Paragraph B.1: *"Temporary casing specified under this Article in Paragraph entitled "Temporary Casing Method of Construction" may also be used with the dry method."*	327	AD.3
31 63 29 Drilled Concrete Piers and Shafts	Article 3.6 CONCRETE PLACEMENT, Paragraph E., deleted the number *"15"* and substituted with the number *"30"*.	329	AD.3

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Division 32

Specification	Change	Page No	AD#
32 11 23 Aggregate Base Courses	Article 2.2 AGGREGATE BASE MATERIAL, deleted the following text in Paragraph A.: *", composed of broken stone or crushed gravel. Aggregate base composed of natural rough surfaced gravel, sand. Reclaimed asphalt concrete, portland cement concrete, lean concrete base, or cement treated base will not be acceptable"*	332	AD.6
32 31 13 Chain Link Fences and Gates	Article 2.1 MATERIALS, deleted the last sentence of Paragraph C.3. and substituted with the following sentence: *"Color shall be as designated in the Construction Specifications as specified in ASTM F934."*	337	AD.7

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32 90 00 Planting	Article 1.10 WARRANTY, revised Paragraph A. from: *"A. Refer to the General Provisions and the Article entitled "Plant Establishment Period and Warranty Service Period" herein for requirements."* to: *"A. The following requirements supplement the General Provisions and Special Provisions Warranty requirements.* *1. Warrant that trees, shrubs, groundcovers, and other plant materials will take root and grow vigorously within one year after final acceptance of plantings and throughout the Plant Establishment Period.* *2. Corrective work for the purposes of the Warranty shall include removal and replacement of warranted plant materials which, for any reason, fail to meet the requirements of the Warranty. Replacements shall meet the same requirements as specified for the original materials, with the exception that size of replacement plant materials shall be in accordance with Caltrans Standard Specifications Section 20-9.03H, Replacement Plants. Replacements shall be warranted as required under the General Provisions and Special Provisions, for minimum of one year that shall start from the time the replacements are planted and accepted or until the end of the Warranty for the original planting, whichever is later.* *3. The Warranty shall include replacement of trees and other plant materials that die back and lose the form and size as originally specified, even though they may have taken root and are growing after the die-back.* *4. The Warranty shall include replacement of trees and other plant materials which are damaged by herbicide, diseased, dead, or which are in an unhealthy condition exhibiting weakness and the probability of dying."*	346	AD.6

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32 90 00 Planting	Article 3.12 PLANT ESTABLISHMENT PERIOD AND WARRANTY SERVICE PERIOD, deleted entire Article 3.12 (Paragraphs A. and B.) and replaced with the following: *"3.12 NOT USED"*	356	AD.6
32 90 00 Planting	Article 3.13 PLANT ESTABLISHMENT, Paragraph A. and following Paragraphs, added the following new Paragraph A. and re-lettered subsequent Paragraphs A. through H. to be B. through I.: *"A. Plant Establishment Period shall extend through the end of the Warranty or for one year following the start of the Plant Establishment Period, whichever is later."*	356	AD.6
32 90 00 Planting	Article 3.13 PLANT ESTABLISHMENT, Paragraph I. (formerly Paragraph H.), changed entire paragraph from: *"H. Until the end of the Plant Establishment Period, replace plants as specified under Article entitled "Plant Establishment Period and Warranty Service Period"."* to: *"I. Until the end of the Plant Establishment Period, replace plants as specified under Article entitled "Warranty"."*	357	AD.6
32 90 00 Planting	Article 3.14 PLANT ESTABLISHMENT FINAL INSPECTION AND ACCEPTANCE, Paragraph G., changed last sentence from: *"Replace plants within two weeks after final inspection and extend the Warranty (and Plant Establishment Period) as specified under Article entitled "Plant Establishment Period and Warranty Service Period"."* to: *"Replace plants within two weeks after final inspection and extend the Warranty (and Plant Establishment Period) as specified under Article entitled "Warranty"."*	358	AD.6

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Division 33

Specification	Change	Page No	AD#
33 05 25 Support and Protection of Utilities	Article 1.4 REQUIRED NOTIFICATIONS, deleted second sentence of Paragraph B. and substituted with the following sentence: *"If underground or aboveground utilities are damaged in any way, immediately notify affected utility owners for corrective action and notify the Contracting Officer."*	366	AD.7

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