DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

Application Number: School Name:

School District: El Monte Union High School District 03-123582 El Monte High School

Increment Number: **DSA File Number: Date Created:** 19-H10 2023-11-09 09:05:20

	C1. CAST-IN-PLACE CONCRETE					
	Test or Special Inspection	Туре	Performed By	Code References and Notes		
V	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.		
V	b. Identifiy, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)		
V	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6 ; ACI 318-19 Sections 26.5 & 26.12.		
V	d. Test concrete (f'c).	Test	LOR	1905A.1.17 ; ACI 318-19 Section 26.12.		
V	e. Batch plant inspection: Continuous	See Notes	SI	Default of 'Continuous' per 1705A.3.3 . If approved by DSA, batch plant inspection may be reduced to 'Periodic' subject to requirements in Section 1705A.3.3.1 , or eliminated per 1705A.3.3.2 . See IR 17-13. (See Appendix (end of this form) for exemptions.)		
	f. Welding of reinforcing steel.			'		

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Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13Application Number:School Name:School District:03-123582El Monte High SchoolEl Monte Union High School DistrictDSA File Number:Increment Number:Date Created:19-H102023-11-09 09:05:20

Test or Special Inspection	Туре	Performed By	Code References and Notes
c. Verify in-situ concrete strength prior to stressing of post-tensioning tendons.	Periodic	SI	Table 1705A.3 Item 13. Special inspector to verify specified concrete strength test prior to stressing.
d. Inspect application of post-tensioning or prestressing forces and grouting of bonded prestressing tendons.	Continuous	SI	1705A.3.4 , Table 1705A.3 Item 9 ; ACI 318-14 Section 26.13

C3. PRECAST CONCRETE (IN ADDITION TO SECTION C1):		
Test or Special Inspection	Туре	Performed By
		I

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2022 CBC

Table 1705A.3; ACI 318-19 Sections 26.12 & 26.13

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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El Monte High School Increment Number:

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	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES						
	Test or Special Inspection	Туре	Performed By	Code References and Notes			
V	 a. Verify identification of all materials and: Mill certificates indicate material properties that comply with requirements. Material sizes, types and grades comply with requirements. 	Periodic	*	Table 1705A.2.1 Item 3a 3c. 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.			
V	b. Test unidentified materials	Test	LOR	2202A.1.			
	c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.			
V	d. Verify and document steel fabrication per DSA-approved construction documents.	Periodic	SI	Not applicable to cold-formed steel light-frame construction, except for trusses (1705A.2.4).			
	e. Buckling restrained braces.	Test	LOR	Testing and special inspections in accordance with IR 22-4.			

	S/A2. HIGH-STRENGTH BOLTS:					
	Test or Special Inspection	Туре	Performed By	Code References and Notes		
V	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	Periodic	SI	Table 1705A.2.1 Items 1a & 1b, 2202A.1 ; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.		
V	b. Test high-strength bolts, nuts and washers.	Test	LOR	Table 1705A.2.1 Item 1c, 2213A.1 ; RCSC 2014 Section 7.2; DSA IR 17-8.		
	c. Bearing-type ("snug tight") connections.	Periodic	SI	Table 1705A.2.1 Item 2a, 1705A.2.6, 2204A.2 ; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Section 9.1; DSA IR 17-9.		
	d. Pretensioned and slip-critical connections.	*	SI	Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used.		

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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S/A3. WELDING:			
Test or Special Inspection	Туре	Performed By	

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

Type

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rest of special inspection	туре	r entormed by	Code References and Notes
S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
Test or Special Inspection	Туре	Performed By	Code References and Notes
a. Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	Continuous	SI	Table 1705A.2.1 Items 5a.1 4 ; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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Test or Special Inspection	Туре	Performed By	Code References and Notes				
S/A6. NONDESTRUCTIVE TESTING:							
Test or Special Inspection	Туре	Performed By	Code References and Notes				
a. Ultrasonic	Test	LOR	1705A.2.1, 1705A.2.5 ; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.				
b . Magnetic Particle	Test	LOR	1705A.2.1, 1705A.2.5 ; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.				
c.	Test	LOR					

S/A7. STEEL JOISTS AND TRUSSES:					
Test or Special Inspection	Туре	Performed By	Code References and Notes		
a. Verify size, type and grade for all chord and web members as well as connectors and weld filler material; verify joist profile, dimensions and camber (if applicable); verify all weld locations, lengths and profiles; mark or tag each joist.	Continuous	SI	1705A.2.3, Table 1705A.2.3; AWS D1.1; DSA IR 22-3 for steel joists only. 1705A.2.4; AWS D1.3 for cold-formed steel trusses.		

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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Test or Special Inspection	Туре	Performed By	Code References and Notes			
S/A8. SPRAYED FIRE-RESISTANT MATERIALS:						
Test or Special Inspection	Туре	Performed By	Code References and Notes			
a. Examine structural steel surface conditions, inspect		·				
	S/A8. SPRAYED FIRE-RESISTANT MATERIALS: Test or Special Inspection	S/A8. SPRAYED FIRE-RESISTANT MATERIALS: Test or Special Inspection Type	S/A8. SPRAYED FIRE-RESISTANT MATERIALS: Test or Special Inspection Type Performed By			

1705A.2.1, Table 1705A.2.1; AISC 303-16, AISC 341-16, AISC 358-16, AISC 360-16; AISI S100-20; RCSC 2014; AWS D1.1, AWS D1.2, AWS D1.3, AWS D1.4, AWS D1.8

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Test or Special Inspection	Туре	Performed By	Code References and Notes
c. Storage rack anchorage installation.	Periodic	SI	ANSI/MH16.1 Section 7.3.2; Table 1705A.13.7
d. Completed storage rack system to indicate compliance with the approved construction documents.	Periodic	SI*	Table 1705A.13.7; * May be preformed by the project inspector when specifically approved by DSA.

S/A11. Other Steel				
Test or Special Inspection	Туре	Performed By	Code References and Notes	
a.				

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (WOOD), 2022 CBC

1705A.5, Table 1705A.5.7

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W1. PREFABRICATED WOOD TRUSSES:					
Test or Special Inspection Type Performed By Code References and Notes					
a. Inspect fabrication of manufactured open-web trusses.	Continuous	SI	1705A.5.6 ; DSA IR 23-8.		
b. Inspect fabrication of manufactured metal-plate-connected trusses.	Continuous	SI	1705A.5.6, 1705A.5.7 ; DSA IR 23-4.		

W2. MANUFACTURED WOOD STRUCTURAL ELEMENTS:					
Test or Special Inspection	Туре	Performed By	Code References and Notes		
a. Inspect fabrication of structural glued-laminated timber.*	Continuous	SI	* See 1705A.5.5 for exceptions		
b. Inspect fabrication of cross-laminated timber.	Continuous	SI	1705A.5.5		
c. Inspect erection of mass timber.	Peridodic	SI	Table 1705A.5.3 , Item 2		
d. Inspect mass timber connections with threaded fasteners, bolts, and/or adhesive anchors other than described in item e below. Inspect concealed mass timber connections.	Peridodic	SI	Table 1705A.5.3 , Items 3.1, 3.3, 3.4, 3.5. For threaded fasteners: Verify use of proper installation equipment. Verify use of pre-drilled holes where required. Inspect screws, including diameter, length, head type, spacing, installation angle, and depth.		
e. Inspect mass timber connections with adhesive anchors installed in a horizontal or upward orientation.	Continuous	SI	Table 1705A.5.3 , Item 3.2		
f. Inspect application of sealants or adhesives applied to mass timber elements.	Peridodic	SI	1705A.20		

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (WOOD), 2022 CBC

1705A.5, Table 1705A.5.7

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W3. OTHER Wood:				
Test or Special Inspection	Туре	Performed By	Code References and Notes	
a.				

Appendix: work Exempt from DSA Requirements for Structural Tests / Special Inspections					
Application Number:	School Name:	School District:			
03-123582	El Monte High School	El Monte Union High School District			
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Exempt items given in DSA IR A-22 or the 2019 CBC (including DSA amendments) and those items identified below with a check mark by the design professional are NOT subject to DSA requirements for the structural tests / special inspections noted. Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall Items marked as exempt shall <

SOILS:	
special e), 353m 72 ETD0 -cT 1ri walkway(special e5 I 0 an apex her:)5 IE3s Tfan 10'-0" abT 1 adjac1-09grade. 353.897 28.994 58.11 re S 1 1 412.007	691

Application Number: School Name: School District:
03-123582 EI Monte High School Increment Number: Date Created:
19-H10 CONCRETE/MASONRY:

CONCRETE/MASONRY:

5. Testing of reinforcing bars is not required for items given in CBC Section 1910A.2 subject to the requirements and limitations in that section.

WELDING:
1. Solid-clad and open-mesh fences, gates with maximum leaf span of 10', and gates with a maximum rolling section of 10' all having an apex height less than 8'-0" above lowest adjacent grade. When located above circulation or occupied space below, these gates/fences are not located within 1.5x gate/fence height (max 8'-0") to the edge of floor or roof.
2. Handrails, guardrails, and modular or relocatable ramps associated with walking surfaces less than 30" above adjacent grade (excluding post base connections per the 'Exception' language in Section 1705A.2.1); fillet welds shall not be ground flush.
3. Non-structural interior cold-formed steel framing spanning less than 15'-0", such as in interior partitions, interior soffits, etc. supporting only self weight and light-weight finishes or adhered tile, masonry, stone, or terra cotta veneer no more than 5/8" thickness and apex less than 20'-0" in height and not over an exit way. Maximum tributary load to a member shall not exceed the equivalent of that occurring from a 10'x10' opening in a 15' tall wall for a header or king stud.
4. Manufactured support frames and curbs using hot rolled or cold-formed steel (i.e., light gauge) for mechanical, electrical, or plumbing equipment weighing less than 2000# (equipment only) (connections of such frames to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
5. Manufactured components (e.g., Tolco, B-Line, Afcon, etc.) for mechanical, electrical, or plumbing hanger support and bracing (connections of such components to superstructure elements using welding will require special inspection as noted in selected item(s) for Sections S/A3, S/A4 and/or S/A5 of listing above).
6. TV Brackets, projector mounts with a valid listing (see DSA IR A-5) and recreational equipment (e.g., playground structures, basketball backstops, etc.) (connections of such elements to superstructure elements using welding will require special inspection as noted in selected item(s) for sections S/A3, S/A4 and/or S/A5 located in the Steel/Aluminum category of listing above).
7. Any support for exempt non-structural components given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) meeting the following: A) when supported on a floor/roof, <400# and resulting composite center of mass (including component's center of mass) ≤4' above supporting floor/roof, B) when hung from a wall or roof/floor, <20# for discrete units or <5 plf for distributed systems.

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School District:

Name of Architect or Engineer in general responsible charge:

Jesse Miller

Name of Structural Engineer (When structural design has been delegated):

Daniel Ahkiam

Signature of Architect or Structural Engineer:

Date: 11/09/2023

Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures.

