



DSA-103 rev 12/20/13

Statement of Structural Tests & Special Inspections - 2013 CBC

INCREMENT #

DSA File No.:

Application No.:

Date Submitted: 4/29/2016

19-41
A# 03-117044
Revised:
Revised:

School Name	Dunsmore Elementary School	District	Glendale Unified School District
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IMPORTANT: This form is only a summary list of structural tests and special inspections required for the project. The actual tests and inspections must be performed as detailed on the DSA approved documents. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A.

NOTE: This form is also available for projects submitted for review under the 2007 and 2010 CBC.

INSTRUCTIONS: Click a plus sign (+) before any category or subcategory to reveal additional tests and special inspections. An "X" before a listed test or inspection indicates it is a mandatory requirement. A shaded box indicates a test or special inspection that may be required, depending on the scope of the construction and other issues. A shaded box can be clicked indicating your selection of that test. **Note:** A minus (-) on a category or subcategory heading indicates that it can be collapsed. However, any selections you may have made will be cleared. Click on the "COMPILE" button to show only the tests finally selected. For more information on use of this form, see DSA-103.INSTR.

Note: References are to the 2013 edition of the California Building Code (CBC) unless otherwise noted.

REQUIRED	TEST OR SPECIAL INSPECTION	TYPE 1	PERFORMED BY 2	CODE REFERENCE AND NOTES
-	SOILS			
	1. GENERAL:			Table 1705A.6
X	a. Verify that: • site has been prepared properly prior to placement of controlled fill and/or excavations for foundations, • foundation excavations are extended to proper depth and have reached proper material, and • materials below footings are adequate to achieve the design bearing capacity.	Periodic	GE*	* By geotechnical engineer or his or her qualified representative.
-	2. COMPACTED FILLS:			Table 1705A.6
	a. Perform qualification testing of fill materials.	Test	Lab*	* Under the supervision of the geotechnical engineer.
X	b. Verify use of proper materials and inspect lift thicknesses, placement, and compaction during placement of fill.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	c. Test compaction of fill.	Test	Lab*	* Under the supervision of the geotechnical engineer.
+	3. DRIVEN DEEP FOUNDATIONS (PILES):			Table 1705A.7
-	4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS):			Table 1705A.7
X	a. Inspect drilling operations and maintain complete and accurate records for each pier.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
X	b. Verify locations of piers.	Continuous	PI	
X	c. Confirm pier diameters, plumbness, bell diameters (if applicable), lengths, and embedment into bedrock (if applicable). Record concrete or grout volumes.	Continuous	GE*	* By geotechnical engineer or his or her qualified representative.
	d. Confirm adequate end strata bearing capacity.	Test	Lab*	* Under the supervision of the geotechnical engineer.
X	e. Concrete piers.	Provide tests and inspections per CONCRETE section below.		
+	5. RETAINING WALLS:			



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+	6. OTHER SOILS:			
-	CONCRETE Table 1705A.3			
-	7. CAST IN PLACE CONCRETE			
Material Verification and Testing:				
X	a. Verify use of required design mix.	Periodic	SI & PI*	* To be performed by batch-plant special inspector and project inspector.
X	b. Test reinforcing steel.	Test	Lab	1913A.2 (1913.2.6*). ASTM A370. DSA IR 17-10
X	c. Perform slump, temperature, and (where required) air content tests.	Test	Lab	ASTM C172, ASTM C31.
X	d. Test concrete (compression).	Test	Lab	ACI 318 Section 5.6 and 1905A.1.2 (1913.3.1*). ASTM C39.
Inspection:				
	e. Batch plant inspection	Continuous	SI	1705A.3.2; If approved by DSA, batch plant inspection may be reduced to periodic if plant complies with 1705A.3.3, Item 1, and requires first batch inspection, weighmaster, and batch tickets.
	f. Batch plant inspection – design complies with 1705A.3.3 item 2	Periodic	SI	1705A.3.3, Item 2. Requires first batch inspection, weighmaster, and batch tickets.
X	g. Inspect placement of formwork, reinforcing steel, embedded items and concrete. Inspect curing and form removal.	Continuous	PI*	* May be performed by a special inspector when specifically approved by DSA.
	h. Welding of reinforcing steel.	Provide special inspection per STEEL, category 19.1(d) & (e) and/or 19.2(g) & (h) below.		
	i. Verify in-situ concrete strength prior to removal of shores and forms from beams and structural slabs.	N/A	PI*	* Project inspector to verify concrete strength test reports prior to removal of shores or formwork.
+	8. PRESTRESSED CONCRETE (in addition to Cast in Place Concrete tests and inspections):			
+	9. PRECAST CONCRETE (in addition to Cast in Place Concrete tests and inspections):			
+	10. SHOTCRETE (in addition to Cast in Place Concrete tests and inspections):			
+	11. POST-INSTALLED ANCHORS:			
+	12. OTHER CONCRETE:			
+	MASONRY TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3			
-	STEEL Table 1705A.2.1			
-	17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES			
Material Verification:				
X	a. Verify that all materials are appropriately marked and that: • Mill certificates indicate material properties that comply with requirements, • Material sizes, types and grades comply with requirements.	Periodic	*	* By special inspector when performed off-site; by project inspector for steel shipped directly to project site without welding or fabrication.
X	b. Test unidentified materials	Test	Lab	2203A.1 (2203.1*). ASTM A370.
X	c. Examine seam welds of structural tubes and pipes	Periodic	SI*	* DSA IR 17-3.
Inspection:				
X	d. Verify member locations, bracing and all details constructed in the field.	Continuous	PI	
X	e. Verify stiffener locations, connection tab locations and all construction details fabricated in the shop.	Periodic	SI	
-	18. HIGH STRENGTH BOLTS:			



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Material Verification of High-Strength Bolts, Nuts, and Washers:				
X	a. Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA approved documents.	Periodic	SI	DSA IR 17-9
X	b. Test high-strength bolts, nuts and washers.	Test	Lab	2213A.1 (2212.6.1 ⁺). ASTM F606, A370. DSA IR 17-8
Inspection of High-Strength Bolt Installation:				
	c. Bearing-type ("snug tight") connections.	Periodic	SI*	DSA IR 17-9
X	d. Slip-critical connections.	*	SI	* "Continuous" or "Periodic" depends on the tightening method used, DSA IR 17-9 and 1705A.2.1.
-	19. WELDING:			DSA IR 17-3, AWS D1.1 and AWS D1.8 (AWS D1.3 for cold formed steel).
Verification of Materials, Equipment, Welders, etc:				
X	a. Verify weld filler material identification markings per AWS designation listed on the DSA approved documents and the WPS.	Periodic	SI	
X	b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	
X	c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
-	19.1 SHOP WELDING:			
X	a. Inspect groove, multi-pass, and fillet welds > 5/16"	Continuous	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	b. Inspect single-pass fillet welds ≤ 5/16"	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
	c. Inspect welding of stairs and railing systems.	Periodic	SI	1705A.2.2.1 Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
	d. Verification of reinforcing steel weldability	Periodic	SI	1705A.3.1; verify carbon equivalent reported on mill certificates. DSA IR 17-3.
	e. Inspect welding of reinforcing steel.	Continuous	SI	1705A.2.2.1.2, 1705A.2.2.5 and Table 1705A.2.1 Item 5b. AWS D1.4. DSA IR 17-3.
+	19.2 FIELD WELDING:			
+	20. NONDESTRUCTIVE TESTING:			
+	21. STEEL JOISTS AND TRUSSES:			
+	22. SPRAY APPLIED FIRE-PROOFING:			
+	23. OTHER STEEL:			
+	WOOD			
+	OTHER			



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KEY to Columns

1 Type -	2 Performed By -
Continuous – Indicates that a continuous special inspection is required	GE – Indicates that the special inspection is to be performed by a registered geotechnical engineer or his or her authorized representative
Periodic – Indicates that a periodic special inspection is required	Lab – Indicates that the test or inspection is to be performed by a testing laboratory accepted in the DSA laboratory Evaluation and Acceptance (LEA) Program. See section 4-335, 2013 CCR Title 24, Part 1.
Test – Indicates that a test is required	PI – Indicates that the special inspection is to be performed by the project inspector
	SI – Indicates that the special inspection is to be performed by a special inspector

COMPILE

PRINT

HUNG CHENG

Name of Architect or Engineer in general responsible charge

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

[Signature]

Signature of Architect or Structural Engineer

4/29/2016

date

IDENTIFICATION STAMP
 DIV OF THE STATE ARCHITECT
 APP. # 03-117044
 AC N/A F/LS N/A SS FCC
 DATE 4/29/2016

