



DSA-103 rev 12/20/13
Statement of Structural Tests & Special Inspections - 2013 CBC

INCREMENT #	DSA File No.:	43-c3
2	Application No.:	01-115112
Date Submitted:	7/13/2016	Revised:
		Revised:

School Name	West Valley College	District	West Valley - Mission Community College 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
X	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.
-	5. RETAINING WALLS:			
X	a. Placement of soil reinforcement, drainage devices, and backfill.	Continuous	GE*	* Placement, compaction and inspection of backfill per Section 1705A.6.1 for fills supporting foundations (see Section 2 above).
X	c. Concrete retaining walls.	Provide tests and inspections per CONCRETE section below.		
-	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.



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X	d. Test concrete (compression).	Test	Lab	ACI 318 Section 5.6 and 1905A.1.2 (1913.3.1 ⁺). ASTM C39.
Inspection:				
X	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.
X	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.
X	h. Welding of reinforcing steel.	Provide special inspection per STEEL, category 19.1(d) & (e) and/or 19.2(g) & (h) below.		
-	11. POST-INSTALLED ANCHORS:			
X	a. Inspect installation of post-installed anchors	Continuous	SI	Table 1705A.3 * May be performed by the project inspector when specifically approved by DSA.
X	b. Test post-installed anchors.	Test	Lab	1913A.7 (1913.2.11 ⁺).
-	MASONRY TMS 402-11/ACI 530-11/ASCE 5-11 Table 1.19.3			
-	13. STRUCTURAL MASONRY:			
		Enter f'_m	2500	
Material Verification and testing:				
X	a. Test reinforcing steel.	Test	Lab	2103A.14 (2103.14 ⁺). ASTM A370, DSA IR 17-10
X	c. Test masonry prisms (prism test method).	Test	Lab	2105A.2.2.2 (2105.2.2.2 ⁺ and 2114.9.2 ⁺). ASTM C1314.
X	d. Verify proportions of site-prepared, premixed or preblended mortar and grout.	Periodic	SI	ASTM C780.
X	e. Test core-drilled samples.	Test	Lab	2105A.5 (2114.9.3 ⁺).
Inspection:				
X	f. Inspect preparation of prisms.	Continuous	SI	ASTM C1314.
X	g. Verify size, location and condition of all dowels, construction supporting masonry, etc.	Periodic	SI	
X	h. Verify specified size, grade, and type of reinforcement.	Periodic	SI	
X	i. Welding of reinforcing steel.	Provide special inspection per STEEL, category 19.1(d) & (e) and/or 19.2(g) & (h) below.		
X	j. Inspect placement of reinforcement, connectors, masonry units and construction of mortar joints.	Periodic	SI	
X	k. Verify protection of masonry during cold weather (temperature below 40° F) or hot weather (temperature above 90°).	Periodic	SI	2104A.3 and 2104A.4 (2104.3 ⁺ and 2104.4 ⁺).
X	l. Inspect type, size, and location of anchors and all other items to be embedded in masonry including other details of anchorage of masonry to structural members, frames and other construction.	Continuous	SI	
X	m. Inspect grout space prior to grouting and placement of grout.	Continuous	SI	
-	15. POST-INSTALLED ANCHORS IN MASONRY:			
X	a. Inspect installation of post-installed anchors	Continuous	SI	1705A.4, 1616A.1.19 * May be performed by the project inspector when specifically approved by DSA.
X	b. Test post-installed anchors.	Test	Lab	1705A.4, 1913A.7 (1913.2.11 ⁺). ASTM E488.
-	STEEL Table 1705A.2.1			
-	17. STRUCTURAL STEEL AND COLD-FORMED STEEL USED FOR STRUCTURAL PURPOSES			



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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:			
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:				
X	c. Bearing-type ("snug tight") connections.	Periodic	SI*	DSA IR 17-9
-	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.
X	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.
-	19.2 FIELD 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.
X	c. Inspect end-welded studs (ASTM A-108) installation (including bend test)	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	d. Inspect floor and roof deck welds	Periodic	SI	Per AISC 360 (and AISC 341 as applicable). DSA IR 17-3.
X	e. Inspect welding of structural cold-formed steel	Periodic	SI*	* May be performed by the project inspector when specifically approved by DSA. DSA IR 17-3. 1705A.2.2.1.1 and 1705A.2.2.5
X	g. Verification of reinforcing steel weldability	Periodic	SI	1705A.3.1; verify carbon equivalent reported on mill certificates.
X	h. 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
-	20. NONDESTRUCTIVE TESTING:			



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X	a. Ultrasonic	Test	Lab	AISC 341, App. Q 5.2, AWS D1.1, D1.6, ANSI/ASNT CP-189, SNT-TC-1A, ASTM E543, E1444, E164, DSA IR 17.2
+	WOOD			
+	OTHER			



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- 1 Soils testing and Inspection: Geotechnical Verified Report - Form DSA-293
- 2 All Structural Testing: Laboratory Verified Report - Form DSA-291
- 3 Concrete Batch Plant Inspection: Special Inspection Verified Report - Form DSA-292
- 4 Masonry Inspection: Special Inspection Verified Report - Form DSA-292
- 5 Shop Welding Inspection: Special Inspection Verified Report - Form DSA-292
- 6 Field Welding Inspection: Special Inspection Verified Report - Form DSA-292
- 7 HS Bolt Installation Inspection: Special Inspection Verified Report - Form DSA-292

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

Phillip Newsom

Name of Architect or Engineer in general responsible charge

Tim L. Heiman

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

Tim L. Heiman

Signature of Architect or Structural Engineer

July 13, 2016

date

IDENTIFICATION STAMP
 DIV OF THE STATE ARCHITECT
 APP. # 01-115112

AC N/A F/LS N/A SS gsl

DATE JUL 13 2016