#### DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2019 CBC

**Application Number:** School Name: School District:

**Rosemead School District** 03-122692 Encinita ES **DSA File Number: Increment Number: Date Created:** 19-91

2023-03-16 10:17:59

#### 2019 CBC

**IMPORTANT:** This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. 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 (2019 CBC).

\*\*NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

#### **KEY TO COLUMNS**

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required	<b>GE</b> – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative.
Periodic – Indicates that a periodic special inspection is required	LOR – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335.
	<b>PI –</b> Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA.
Test – Indicates that a test is required	SI – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

## DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS (CONCRETE), 2019 CBC

Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

**Application Number:** School Name: 03-122692 Encinita ES

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	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	Туре	Performed By	Code References and Notes
<b>V</b>	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
<b>7</b>	<b>b.</b> Identifiy, sample, and test reinforcing steel.	Test	LOR	<b>1910A.2</b> ; ACI 318-14 Section 26.6.1.2; DSA IR 17-10. (See Appendix for exemptions.)
<b>V</b>	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	<b>Table 1705A.3 Item 6</b> ; ACI 318-14 Sections 26.5 & 26.12.
<b>7</b>	d. Test concrete (f'c).	Test	LOR	<b>1905A.1.15</b> ; ACI 318-14 Section 26.12.
<b>V</b>	e. Batch plant inspection: Eliminated	See Notes	SI	Default of <b>'Continuous'</b> per <b>1705A.3.3</b> . If approved by DSA, batch plant inspection may be reduced to <b>'Periodic'</b> subject to requirements in Section <b>1705A.3.3.1</b> , or eliminated per <b>1705A.3.3.2</b> . See IR 17-13. (See Appendix for exemptions.)
	f. Welding of reinforcing steel.	Provide spec	ial inspection pe	er STEEL, Category S/A4(d) & (e) and/or S/A5(g) & (h) below.

C2. PRESTRESSED / POST-TENSIONED CONCRETE (IN ADDITION TO SECTION C1):				
Test or Special Inspection	Туре	Performed By	Code References and Notes	
a. Sample and test prestressing tendons and anchorages.	Test	LOR	1705A.3.4, 1910A.3	
<b>b.</b> Inspect placement of prestressing tendons.	Periodic	SI	1705A.3.4, Table 1705A.3 Items 1 & 9.	

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Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

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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	<b>Table 1705A.3 Item 11.</b> 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	<b>1705A.3.4</b> , <b>Table 1705A.3 Item 9</b> ; ACI 318-14 Section 26.13

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	${\tt C3.PRECASTCONCRETE(INADDITIONTOSECTIONC1)};\\$			
	Test or Special Inspection	Туре	Performed By	Code References and Notes
	a. Inspect fabrication of precast concrete members.	Continuous	SI	ACI 318-14 Section 26.13.
	<b>b.</b> Inspect erection of precast concrete members.	Periodic	SI*	<b>Table 1705A.3 Item 10.</b> * May be performed by PI when specifically approved by DSA.

C4. SHOTCRETE (IN ADDITION TO SECTION C1):			
Test or Special Inspection	Туре	Performed By	Code References and Notes
a. Inspect shotcrete placement for proper application techniques.	Continuous	SI	<b>1705A.19, Table 1705A.3 Item 7, 1908A.6, 1908A.7, 1908A.8, 1908A.9, 1908A.11, 1908A.12.</b> See ACI 506.2-13 Section 3.4, ACI 506R-16.
<b>b.</b> Sample and test shotcrete (f'c).	Test	LOR	1908A.5, 1908A.10.

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Table 1705A.3; ACI 318-14 Sections 26.12 & 26.13

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	C5. POST-INSTALLED ANCHORS:			
	Test or Special Inspection	Туре	Performed By	Code References and Notes
<b>V</b>	a. Inspect installation of post-installed anchors	See Notes	SI*	1617A.1.19, Table 1705A.3 Item 4a (Continuous) & 4b (Periodic), 1705A.3.8 (See Appendix for exemptions). ACI 318-14 Sections 17.8 & 26.13. * May be performed by the project inspector when specifically approved by DSA.
<b>V</b>	<b>b.</b> Test post-installed anchors.	Test	LOR	1910A.5. (See Appendix for exemptions.)

C6. OTHER CONCRETE:			
Test or Special Inspection	Туре	Performed By	Code References and Notes
a.			

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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. <a href="Items marked as exempt shall-be-identified on the approved construction documents">Items marked as exempt shall-be-identified on the approved construction documents</a>. The project inspector shall verify all construction complies with the approved construction documents.

SOILS:
1. Deep foundations acting as a cantilever footing designed based on minimum allowable pressures per CBC Table 1806A.2 and having no geotechnical report for the following cases: A) free standing sign or scoreboard, B) cell or antenna towers and poles less than 35'-0" tall (e.g., lighting poles, flag poles, poles supporting open mesh fences, etc.), C) single-story structure with dead load less than 5 psf (e.g., open fabric shade structure), or D) covered walkway structure with an apex height less than 10'-0" above adjacent grade.
2. Shallow foundations, etc. are exempt from special inspections and testing by a Geotechnical Engineer for the following cases: A) buildings without a geotechnical report and meeting the exception item #1 criteria in CBC Section 1803A.2 supported by native soil (any excavation depth) or fill soil (not exceeding 12" depth per CBC Section 1804A.6), B) soil scarification/recompaction not exceeding 12" depth, C) native or fill soil supporting exterior non-structural flatwork (e.g., sidewalks, site concrete ramps, site stairs, parking lots, driveways, etc.), D) unpaved landscaping and playground areas, or E) utility trench backfill.

	CONCRETE/MASONRY:
	1. Post-installed anchors for the following: A) exempt non-structural components (e.g., mechanical, electrical, plumbing equipment - see item 7 for "Welding" in the Appendix below) given in CBC Section 1617A.1.18 (which replaces ASCE 7-16, Section 13.1.4) or B) interior nonstructural wall partitions meeting criteria listed in exempt item 3 for "Welding."
<b>\</b>	2. Concrete batch plant inspection is not required for items given in CBC Section 1705A.3.3.2 subject to the requirements and limitations in that section.
	3. Non-bearing non-shear masonry walls may be exempt from certain DSA masonry testing and special inspection items as allowed per DSA IR 21-1.16. Refer to construction documents for specific exemptions accordingly for each applicable wall condition.
	4. Epoxy shear dowels in site flatwork and/or other non-structural concrete.

Appendix: Work Exempt from DSA Requirements for Structural Tests / Special Inspections **Application Number:** School District: School Name: **Rosemead School District** 03-122692 Encinita ES **DSA File Number: Increment Number: Date Created:** 19-91 2023-03-16 10:17:59 **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

# DSA 103-19: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS(SIGNATURE), 2019 CBC School District: **Application Number:** School Name: **Rosemead School District** 03-122692 **Encinita ES DSA File Number: Increment Number: Date Created:** 19-91 2023-03-16 10:17:59 Name of Architect or Engineer in general responsible charge: Helena Jubany, FAIA Name of Structural Engineer (When structural design has been delegated): 03/16/2023 Signature of Architect or Structural Engineer: Note: To facilitate DSA electronic mark-ups and identification stamp application, DSA recommends against using secured electronic or digital signatures. **DSA STAMP**

## DSA 103-19: LIST OF REQUIRED VERIFIED REPORTS, CBC 2019

Application Number: School Name: School District:

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1. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291

2. Post-installed Anchors: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292