

## Statement of Special Inspections, 2013 CBC

**PROJECT ADDRESS** \_\_\_\_\_

**PERMIT NUMBER #** \_\_\_\_\_

**Description of Work:** \_\_\_\_\_

This Statement of Special Inspections is submitted in fulfillment of the requirements of CBC Sections 1704 and 1705. Included are:

- Schedule of Special Inspections and tests applicable to this project:
  - Special Inspections per Sections 1704 and 1705
  - Special inspections for Seismic Resistance
  - Special inspections for Wind Resistance
- List of the Testing Agencies and other special inspectors that will be retained to conduct the tests and inspections.

Special Inspections and Testing will be performed in accordance with the approved plans and specifications, this statement and CBC sections 1704, 1705, 1707, and 1708.

The Schedule of Special Inspections summarizes the Special Inspections and tests required. Special Inspectors will refer to the approved plans and specifications for detailed special inspection requirements. Any additional tests and inspections required by the approved plans and specifications will also be performed.

Interim reports will be submitted to the Building Official and the Registered Design Professional in Responsible Charge in accordance with CBC Section 1704.2.4

A Final Report of Special Inspections documenting required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted prior to issuance of a Certificate of Use and Occupancy (Section 1704.2.4). The Final Report will document:

- Required special inspections.
- Correction of discrepancies noted in inspections.

The Owner recognizes his or her obligation to ensure that the construction complies with the approved permit documents and to implement this program of special inspections. In partial fulfillment of these obligations, the Owner will retain and directly pay for the Special Inspections as required in CBC Section 1704.2.

This plan has been developed with the understanding that the Chief Building Official will:

- Review and approve the qualifications of the Special Inspectors who will perform the inspections.
- Monitor special inspection activities on the job site to assure that the Special Inspectors are qualified and are performing their duties as called for in this Statement of Special Inspection.
- Review submitted inspection reports.
- Perform inspections as required by the local building code.

**Prepared by:**

\_\_\_\_\_  
Registered Design Professional in Responsible Charge

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**Owner's Authorization:**

**Owner, Registered Design Professional or Agency who is hiring the Special Inspector or Special Inspection Agency**

_____	
Owner	
_____	
Phone Number	
_____	
Signature	Date

_____	
Name	Phone Number
_____	
Signature	Date

**CONTRACTORS RESPONSIBILITIES (Section 1704.4): Each contractor responsible for the construction of a wind-or seismic-force-resisting system, designated seismic system or wind-or seismic-resisting component listed in the statement of special inspections acknowledges:**

- 1) Awareness of the special requirements contained in the statement of special inspections;
- 2) Control will be exercised to obtain conformance with the construction documents approved by the Chief Building Official;
- 3) Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of the reports.

**Contractor's Acknowledgment of Responsibilities:**

_____	
Contractor	Responsible Person within Organization
_____	
Phone Number	Phone Number
_____	
Signature	Date

_____	
Contractor for Designated Seismic System	Responsible Person within Organization
_____	
Phone Number	Phone Number
_____	
Signature	Date

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Contractor for Wind-or Seismic-Force-Resisting Component	Responsible Person within Organization
Phone Number	Phone Number
Signature _____	Signature _____
Date _____	Date _____

## Schedule of Inspection, Testing Agencies, and Inspectors

The following are the testing agencies and special inspectors that will be retained to conduct tests and inspection on this project.

Responsibility	Firm	Address, Telephone, e-mail
1. Special Inspection (except for geotechnical)		
2. Material Testing		
3. Geotechnical Inspections		
4.		

### Seismic Requirements (Section 1705.3.1)

Description of seismic-force-resisting system and designated seismic systems subject to special inspections as per Section 1704.3.2:

  
  
  
  
  
  
  
  
  
  

The extent of the seismic-force-resisting system is defined in more detail in the construction documents.

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**Wind Requirements** (Section 1705.4.1)

Description of wind-force-resisting system and designated wind resisting components subject to special inspections in accordance with Section 1704.3.3:

The extent of the main wind-force-resisting system and wind resisting is defined in more detail in the construction documents.

**Chapter 17; Structural Tests and Special Inspections of the Palmdale Building Code as adopted by incorporation of the California Building Code is hereby modified as follows:**

Subsection 1705.3 is amended to read as follows:

1705.3 Concrete Construction. The special inspections and verifications for concrete construction shall be as required by this section and Table 1705.3.

EXCEPTIONS: Special inspection shall not be required for:

1. Isolated spread concrete footings of buildings three stories or less in height that are fully supported on earth or rock, where the structural design of the footing is based on a specified compressive strength, f'c, no greater than 2,500 pounds per square inch (psi) (17.2 Mpa).
2. Continuous concrete footings supporting walls of buildings three stories or less in height that are fully supported on earth or rock where:
  - 2.1. The footings support walls of light-frame construction;
  - 2.2. The footings are designed in accordance with Table 1805.4.2; or
  - 2.3. The structural design of the footing is based on a specified compressive strength, f'c, no greater than 2,500 pounds per square inch (psi) (17.2 Mpa), regardless of the compressive strength specified in the construction documents or used in the footing construction.
3. Nonstructural concrete slabs supported directly on the ground, including prestressed slabs on grade, where the effective prestress in the concrete is less than 150 psi (1.03 Mpa).
4. Concrete patios, driveways and sidewalks, on grade.

Table 1705.3 is amended by adding the following:

Verification and Inspections	Continuous	Periodic	Referenced Standard	IBC Reference
13. Grade Beam Connection to Pile Foundations	-	X	ACE 318: Ch. 21	-

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## Schedule of Special Inspection

### Notation Used in Table:

#### Column headers:

- C Indicates continuous inspection is required.  
 P Indicates periodic inspections are required. The notes and or contract documents should clarify.

#### Box entries:

- X Is placed in the appropriate column to denote either “C” continuous or “P” periodic inspections.  
 NA Not Applicable

Additional detail regarding inspections and tests are provided in the project specifications or notes on the drawings.

<b>Verification and Inspection</b>	<b>C</b>	<b>P</b>	<b>Notes</b>
<b>1704.2.5</b> - Inspect fabricator's fabrication and quality control procedures.			
<b>1705.1.1</b> – Special cases. Special inspections shall be required for proposed work that is, in the opinion of the building official, unusual in its nature, such as, but not limited to, the following examples:			
1. Construction materials and systems that are alternatives to materials and systems prescribed by this code.			
2. Unusual design applications of materials described in this code.			
3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code.			
<b>Table 1705.2 – Steel</b>			
1. Material verification of cold –formed steel deck			
a. Identification markings to conform to ASTM standards specified in the approved construction documents.			
b. Manufacturer's certified test reports.			
2. Inspection of welding:			
a. Cold-formed steel deck:			
1) Floor and roof deck welds.			
b. Reinforcing steel			
1) Verification of weldability of reinforcing steel other than ASTM A 706.			
2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls, and shear reinforcement.			
3) Shear reinforcement.			
4) Other reinforcing steel			

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<b>Verification and Inspection</b>	<b>C</b>	<b>P</b>	<b>Notes</b>
3. High Strength Bolting (Section 1705.2.1 & AISC 360.10 Section N5.6)			
<b>Table 1705.3 – Concrete</b>			
1. Inspection of reinforcing steel, including prestressing tendons and placement.			
2. Inspection of reinforcing steel welding in accordance with Table 1705.2.2 Item 2b.			
3. Inspection of anchors cast in concrete where applicable loads have been increased or where strength design is used.			
4. Inspection of anchors post-installed in hardened concrete members.			
5. Verifying use of required design mix.			
6. At time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.			
7. Inspection of concrete and shotcrete placement for proper application techniques.			
8. Inspection for maintenance of specified curing temperature and techniques.			
9. Inspection of prestressed concrete.			
a. Application of prestressing forces.			
b. Grouting of bonded prestressing tendons in the seismic force-resisting system.			
10. Erection of precast concrete members.			
11. Verification of in-situ concrete strength, prior to stressing of tendons in postensioned concrete and prior to removal of shores and forms from beams and structural slabs.			
12. Inspect formwork for shape, location, and dimensions of the concrete member being formed.			
<b>1705.4 - Masonry Construction</b>			
1. Masonry construction shall be inspected and verified in accordance with TMS 402/ACI 530/ASCE and TMS 602/ACI 530.1/ASCE 6 quality assurance program requirements.			
<b>1705.4.1 – Empirically designed masonry, glass unit masonry veneer in Risk Category IV.</b>			
<b>1705.4.2 – Vertical masonry foundation elements</b>			
<b>1705.5 - Wood Construction</b>			
1. Inspect prefabricated wood structural elements and assemblies in accordance with Section 1704.2.5 Special inspections of site-built assemblies shall be accordance with this section.			
<b>1705.5.1 – Inspect high-load diaphragms:</b>			
1. Verify grade and thickness of sheathing.			

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Verification and Inspection	C	P	Notes
2. Verify nominal size of framing members at adjoining panel edges.			
3. Verify: <ul style="list-style-type: none"> <li>a. Nail or staple diameter and length,</li> <li>b. Number of fastener lines,</li> <li>c. Spacing between fasteners in each line and at edge margins.</li> </ul>			
<b>1705.5.2</b> – Metal-plate connected wood trusses spanning 60 feet or greater.			
<b>Table 1705.6</b> - Inspection of Soils			
1. Verify materials below shallow foundations are adequate to achieve the desired bearing capacity.			
2. Verify excavations are extended to proper depth and have reached proper material.			
3. Perform classification and testing of compacted fill materials.			
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.			
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.			
<b>Table 1705.7</b> – Driven Deep Foundation Elements			
1. Verify pile materials, sizes and lengths comply with the requirements.			
2. Determine capacities of test elements and conduct additional load tests, as required.			
3. Observe driving operations and maintain complete and accurate records for each element.			
4. Verify placement locations and plumbness. <ul style="list-style-type: none"> <li>a. Confirm type and size of hammer.</li> <li>b. Record number of blows per foot of penetration.</li> <li>c. Determine required penetrations to achieve design capacity.</li> <li>d. Record tip and butt elevations and document any damage to foundation element.</li> </ul>			
5. For steel elements, perform additional inspections in accordance with Section 1705.2.			
6. For concrete elements and concrete-filled elements, perform additional inspections in accordance with Section 1705.3.			
7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.			
<b>Table 1705.8</b> – Cast-in-place Deep Foundation Elements.			

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Verification and Inspection	C	P	Notes
1. Observe drilling operations and maintain complete and accurate records for each element.			
2. Verify placement locations and plumbness. Confirm: <ul style="list-style-type: none"> <li>a. Element diameters</li> <li>b. Bell diameters (if applicable)</li> <li>c. Lengths, embedment into bedrock (if applicable)</li> <li>d. Adequate end-bearing strata capacity.</li> <li>e. Record concrete or grout volumes.</li> </ul>			
3. For concrete elements, perform additional inspections in accordance with Section 1705.3.			
<b>1705.9 – Helical pile foundations.</b>			
1. The information recorded shall include: <ul style="list-style-type: none"> <li>a. Installation equipment used.</li> <li>b. Pile dimensions.</li> <li>c. Tip elevations.</li> <li>d. Final depth.</li> <li>e. Final installation torque</li> <li>f. Other pertinent installation data required.</li> </ul>			
<b>1705.10 Special inspections for wind resistance</b>			
Special inspections itemized in Sections 1705.10.1 through 1705.10.3, unless exempted by exceptions to Section 1704.2, are required for buildings and structures constructed in the following areas:			
1. Wind Exposure B, where $V_{asd}$ as determined in accordance with Section 1609.3.1 is 120 miles per hour (52.8 m/sec) or greater.			
2. In wind Exposure Category C or D, where $V_{asd}$ as determined in accordance with Section 1609.3.1 is 110 mph (49m/sec) or greater.			
<b>1705.10.1 - Structural wood (Wind Resistance)</b>			
<b>1705.10.2 – Cold-formed steel light-frame construction. (Wind Resistance)</b>			
<b>1705.10.3 – Wind-resisting components</b>			
1. Roof cladding			
2. Wall cladding			
<b>1705.11 – Special inspections for seismic resistance.</b>			
<b>1705.11.1 – Structural steel (Seismic Resistance)</b>			
<b>1705.11.2 - Structural wood (Seismic Resistance)</b>			

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Verification and Inspection	C	P	Notes
<b>1705.11.3 – Cold-formed steel light-frame construction. (Seismic Resistance)</b>			
<b>1705.11.4 – Designated seismic systems.</b>			
The special inspector shall examine designated seismic systems requiring seismic qualification in accordance with Section 1705.12.3 and verify that the label, anchorage or mounting conforms to the certificate of compliance.			
<b>1705.11.5 – Architectural components</b>			
Periodic special inspection is required during the erection and fastening of exterior cladding, interior and exterior nonbearing walls and interior and exterior veneer in structures assigned to Seismic Design Category D, E or F.			
<b>1705.11.5.1 - Access floors</b>			
Periodic special inspections is required for the anchorage of access floors in structures assigned to Seismic Design Category D, E or F.			
<b>1705.11.6 – Mechanical and electrical components</b>			
1. Periodic special inspection is required during the anchorage of electrical equipment for emergency or standby power systems in structures assigned to Seismic Design Category C, D, E or F.			
2. Periodic special inspections is required during the anchorage of other electrical equipment in structures assigned to Seismic Design Category E or F.			
3. Periodic special inspection is required during the installation and anchorage of piping systems designed to carry hazardous materials and their associated mechanical units in structures assigned to Seismic Design Category C, D, E or F.			
4. Periodic special inspections is required during the installation and anchorage of ductwork designed to carry hazardous materials in structures assigned to Seismic Design Category C, D, E or F.			
5. Periodic special inspection is required during the installation and anchorage of vibration isolation systems in structures assigned to Seismic Design Category C, D, E or F where the construction documents require nominal clearances of 1/4 inch or less between the equipment support frame and restraint.			

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<b>Verification and Inspection</b>	<b>C</b>	<b>P</b>	<b>Notes</b>
<b>1705.11.7</b> – Storage racks 8 feet or higher			
<b>1705.11.8</b> – Seismic isolation system			
<b>1705.13</b> - Sprayed Fire-Resistant Materials			
<b>1705.13.1</b> – Physical and visual tests			
1. Condition of substrates.			
2. Thickness of application			
3. Density in pounds per cubic foot.			
4. Bond strength adhesion/cohesion.			
5. Condition of finished application.			
<b>1705.13.2</b> – Structural member surface conditions.			
1. The surfaces shall be prepared in accordance with the approved fire-resistive design and the written instructions of approved manufacturers. The prepared surface of structural members to be sprayed shall be inspected before the application of the sprayed fire-resistant material.			
<b>1701.13.3</b> – Application			
1. Verify minimum ambient temperature before and after application.			
2. Verify ventilation of area during and after application.			
<b>1705.13.4</b> - Thickness			
<b>1705.13.5</b> - Density			
<b>1705.13.6</b> – Bond Strength			
<b>1705.14</b> - Mastic and Intumescent Fire-Resistant Coating			
<b>1705.15</b> - Exterior Insulation and Finish Systems (EIFS)			
<b>1705.15.1</b> – Water-resistive barrier coating.			
<b>1705.16</b> – Fire-resistant penetrations and joints.			
<b>1705.17</b> – Smoke Control System			
<b>1708/1709/1710</b> – Test Safe Load/In-Situ Load Tests/Preconstruction Load Tests			