# City of Sonoma



# Building Department Informational Handout

|  |  |
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| **Statement of Special Inspections** | Handout No: 7 Revised 6/21/2023 |

|  |  |
| --- | --- |
| Project Name: | **Click here to enter text.** |
| Project Address: | **Click here to enter text.** |

For building permit applications of projects requiring special inspection, structural observation and/or testing per **Chapter 17 of the 2022 California Building Code (CBC)**. This Statement of Special Inspections is submitted in conformance with the requirements of CBC Chapter 17. Included are:

* Schedule of Special Inspections and tests applicable to this project: (check if applicable)

|  |
| --- |
| [ ]  Special inspections required per CBC Sections 1704 and 1705  |
| [ ]  Special inspections for Seismic Resistance required per CBC Section 1704.3.2 |
| [ ]  Special inspections for Wind Resistance required per CBC Section 1704.3.3  |
| [ ]  Structural observations for Seismic Resistance required per CBC Section 1704.6 apply |
| [ ]  Designer specified special inspections or structural observations apply |

* List of the Testing Agencies and other special inspectors that will be retained to conduct the tests and inspections.
1. **OVERVIEW:**
	1. **Purpose.** The Statement of Special Inspections summarizes the special inspections and tests required. The special inspections shown on the approved plans and checked on this Statement of Special Inspections are required for this project. The employment of special inspectors is the direct responsibility of the owner or the engineer/architect of record acting as the owner’s representative. These special inspections are required in addition to the called inspections performed by the Building Department.
	2. **Before a Permit can be issued.** The engineer or architect of record must submit two (2) copies of this form including the required acknowledgments. The completed statement of Special Inspections shall become a part of the approved construction documents.
	3. **Approval of Special Inspector.** Each special inspector, special inspection agency and testing agency shall be listed and/or approved by the Building Department prior to approval of the plans and performing of any special inspection services. Any unauthorized personnel changes will result in a “Stop Work Order” and possible permit revocation.

**Building Department Acceptance**

* 1. **Structural Observation.** In addition, or in lieu of other special inspection requirements, the engineer or architect shall provide structural observation when required by section 1704.6.1 of the 2022 California Building Code. The scope and frequency for structural observation shall be clearly noted on the plans.

**The signatures of the Registered Design Professional, the Contractor and the Owner must be obtained on this form.**

**ACKNOWLEDGMENTS**

The undersigned have read and agree to comply with the terms and conditions of this
Statement and Schedule of Special Inspections.

1. **RESPONSIBILITIES OF REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE**
	1. **Preparation of Statement of Special Inspection.** Where special inspection and/or testing is required by CBC Chapter 17, the registered design professional in responsible charge shall prepare a Statement of Special Inspections in accordance with CBC Section 1705 for submittal by the permit applicant. The Statement of Special Inspection shall identify the following:
		1. The materials, systems, components and work required to have special inspection or testing by the building official or by the registered design professional responsible for each portion of the work;
		2. The type and extent of each special inspection;
		3. The type and extent of each test;
		4. Additional requirements for special inspection or testing for seismic or wind resistance as specified in Section 1705.11, 1705.12, and 1705.13;
		5. For each type of special inspection, identification as to whether it will be continuous special inspection or periodic special inspection.
	2. **Acknowledgements.** Obtain all acknowledgements indicated on the Statement of Special Inspection form.

**Registered Design Professional Acknowledgement of Responsibilities:**

|  |  |  |
| --- | --- | --- |
| **Click here to enter text.** |  | **Click here to enter text.** |
| *Registered Design Professional in Responsible Charge (please type or print)* |  | *Phone* |
| **Click here to enter text.** |  |  |
| *Registered Design Professional E-Mail Address* |  |  |
|  |  | **Click here to enter text.** |
| *Signature* |  | *Date* |

1. **CONTRACTOR RESPONSIBILITIES:**
	1. **Quality Control.** The contractor is responsible for the quality of the work performed.
	2. **Wind- and Seismic-Force-Resisting Components**. The Contractor responsible for the construction of the main wind- or seismic-force-resisting system, designated seismic system or the wind- or seismic-resisting component listed in the Statement of Special Inspections recognizes his or her responsibility to ensure that special requirements contained in the Statement of Special Inspection are complied with.
	3. **Inspector Notification.** The contractor shall provide sufficient notice to the special inspector prior to performing any work that requires special inspection.
	4. **Access to Plans.** The contractor is responsible for providing the special inspector access to the approved plans and specifications at the job site.
	5. **Building Department Inspection.** The Contractor acknowledges that special inspections are *in addition to* the inspections required by the Building Department. If work is inspected and approved by the Special Inspector and subsequently covered by the Contractor without inspection by the Building Department, it may be necessary to remove materials as determined by the Building Inspector.
	6. **Retain Special Inspection Records**. The contractor is a responsible for retaining all special inspection records submitted by the special inspector at the job site for Building Inspector review upon request.
	7. **Final Inspection.** The final inspection may not be scheduled until all interim and final reports documenting the special inspection work have been submitted and approved by the Building Department.

**Contractor’s Acknowledgement of Responsibilities:**

|  |  |  |
| --- | --- | --- |
| **Click here to enter text.** |  | **Click here to enter text.** |
| *Contractor Name (please type or print)* |  | *Phone* |
|  |  | **Click here to enter text.** |
| *Signature* |  | *Date* |

1. **OWNER’S RESPONSIBILITIES**
	1. **Hiring Special Inspector**. The owner or the registered design professional in responsible charge acting as the owner's agent shall employ one or more approved special inspection and/or testing agencies to perform special inspections or testing during construction where required under CBC Section 1705 and further listed herein.
	2. **Hiring Design Professional for Structural Observation.** Where required by the provisions of CBC Sections 1704.6.1 the owner shall employ a registered design professional to perform structural observations as defined in CBC Section 202.
	3. **Implementation of Special Inspection Program.** The Owner shall ensure that this program of special inspections is implemented and that all construction complies with the approved permit documents.

**Owner’s Authorization and** **Acknowledgement of Responsibilities:**

|  |  |  |
| --- | --- | --- |
| **Click here to enter text.** |  | **Click here to enter text.** |
| *Owner Name (please type or print)* |  | *Phone* |
|  |  | **Click here to enter text.** |
| *Signature* |  | *Date* |

1. **SPECIAL INSPECTOR RESPONSIBILITIES:**
	1. **Compliance with Building Code.** Work performed under special inspection and testing shall meet the minimum requirements of the applicable provisions of the California Building Code. The special inspector shall Inspect the work and bring nonconformance issues to the immediate attention of the contractor and note all such issues in interim reports. Any item not satisfactorily resolved shall be immediately reported to the Building Department by the special inspector.
	2. **Special Inspection Requirements**. Special inspections and testing shall be performed in accordance with the approved plans and specifications, this statement and CBC Chapter 17.
	3. **Interim Reports**. 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.
	4. **Final Report.** Prior to issuance of a Certificate of Use and Occupancy, a Final Report of Special Inspections and Testing shall be submitted to the Building Department from each special inspection or testing agency stating the outcome of the inspections and any discrepancies in inspection coverage (i.e., missed inspections, periodic inspections when continuous was required, etc.).

**List Special Inspection and Testing Agencies for the Project** (please type or print)

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

|  |  |  |
| --- | --- | --- |
| **Responsibility and Type of Testing or Special Inspection (where applicable)** | **Firm Name** | **Phone and E-Mail Address:** |
| Geotechnical  | Click here to enter text. | Click here to enter text.Click here to enter text. |
| Special InspectionsType: **Click here to enter text.** | Click here to enter text. | Click here to enter text.Click here to enter text. |
| Special InspectionsType: **Click here to enter text.** | Click here to enter text. | Click here to enter text.Click here to enter text. |
| Special InspectionsType: **Click here to enter text.** | Click here to enter text. | Click here to enter text.Click here to enter text. |
| Materials TestingType: **Click here to enter text.** | Click here to enter text. | Click here to enter text.Click here to enter text. |
| Structural Observation**Click here to enter text.** | Click here to enter text. | Click here to enter text.Click here to enter text. |
| Other (describe)**Click here to enter text.** | Click here to enter text. | Click here to enter text.Click here to enter text. |

## Seismic Requirements (CBC Section 1704.3.2)

|  |
| --- |
| Description of seismic-force-resisting system and designated seismic systems subject to special inspections and/or testing per CBC 1705.12 and 1705.13:**Click here to enter text.** |
| *The extent of the seismic-force-resisting system is defined in more detail in the construction documents.* |

## Schedule of Special Inspections

**Notations Used in the Following Table:**

Column headers:

|  |  |
| --- | --- |
| **C** | Indicates continuous inspection is required. |
| **P** | Indicates periodic inspections are required.  |
| **NOTES** | Clarify periodic inspection requirements and indicate plan sheets for further clarification. |

Box entries:

|  |  |
| --- | --- |
| ⚫ | Denotes either “C” continuous or “P” periodic inspections. |
| O | Denotes an activity that is either a one-time activity or one whose frequency is on a random basis or is defined in some other manner. |
|[x]  Entered by the registered design professional in responsible charge to indicate the required special inspections.  |

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

| **Verification and Inspection** | **C** | **P** | [x] **when req’d** | **Notes/References** |
| --- | --- | --- | --- | --- |
| **1704.2.5.1** – Inspect fabricator’s fabrication and quality control procedures. |  | O |[ ]  Click here to enter text. |
| **CBC 1705.2 - Required Verification and Inspection for Structural Steel Construction** (AISC 360 and AISC 341.) |
| 1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents).
 |  | O |[ ]  Click here to enter text. |
| 1. Material verification of structural steel.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Embedments (Verify diameter, grade, type, length, embedment. See Table1705.3 for anchors).
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Structural steel welding:
 |  |  |[ ]  Click here to enter text. |
| * 1. Inspection tasks Prior to Welding (Inspect for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1).
 |  | O |[ ]  Click here to enter text. |
| * 1. Inspection tasks During Welding (Inspect for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2).
 |  | O |[ ]  Click here to enter text. |
| * 1. Inspection tasks After Welding (Inspect for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3).
 |  | O |[ ]  Click here to enter text. |
| * 1. Nondestructive testing (NDT) of welded joints:
 |  |  |[ ]  EXCEPTION: NDT of welds completed in an approved fabricator's shop. See AISC 360, N7.Click here to enter text. |
| * + 1. Complete penetration groove welds 5/16" or greater in risk category III or IV.
 |  | ⚫ |[ ]  Click here to enter text. |
| * + 1. Complete penetration groove welds 5/16" or greater in risk category II.
 |  | ⚫ |[ ]  Click here to enter text. |
| * + 1. Thermally cut surfaces of access holes when material t > 2".
 |  | ⚫ |[ ]  Click here to enter text. |
| * + 1. Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1.
 |  | ⚫ |[ ]  Click here to enter text. |
| * + 1. Fabricator's NDT reports when fabricator performs NDT.
 |  | O |[ ]  Click here to enter text. |
| 1. Structural steel bolting:
 |  | O |[ ]  Click here to enter text. |
| * 1. Inspection tasks Prior to Bolting (Inspect tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1).
 |  | O |[ ]  Click here to enter text. |
| * 1. Inspection tasks During Bolting (Observe the QA tasks listed in AISC 360, Table N5.6-2).
 |  | O |[ ]  Click here to enter text. |
| * + 1. Pre-tensioned and slip-critical joints.
 |  | ⚫ |[ ]  Click here to enter text. |
| * + 1. Snug-tight joints.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3).
 |  | O |[ ]  Click here to enter text. |
| 1. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1.
 |  | O |[ ]  Click here to enter text. |
| **CBC Table 1705.2.2 - Inspection of Steel Construction other than Structural Steel** |
| 1. Material verification of cold-formed steel deck:
 |  |  |[ ]  Click here to enter text. |
| * 1. Identification markings to conform to ASTM standards specified in the approved construction documents.
 |  | ⚫ |[ ]  Applicable ASTM material standards. Click here to enter text. |
| * 1. Manufacturer's certified test reports.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Inspection of welding:
 |  |  |[ ]  Click here to enter text. |
| * 1. Cold-formed steel deck:
 |  |  |[ ]   |
| * + 1. Floor and roof deck welds.
 |  | ⚫ |[ ]  AWS D1.3. Click here to enter text. |
| * 1. Reinforcing steel:
 |  |  |[ ]  Click here to enter text. |
| * + 1. Verification of weldability of reinforcing steel other than ASTM A 706.
 |  | ⚫ |[ ]  AWS D1.4, ACI 318: Section 3.5.2Click here to enter text. |
| * + 1. Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement.
 | ⚫ |  |[ ]  AWS D1.4, ACI 318: Section 3.5.2Click here to enter text. |
| * + 1. Shear reinforcement.
 | ⚫ |  |[ ]  AWS D1.4, ACI 318: Section 3.5.2Click here to enter text. |
| * + 1. Other reinforcing steel.
 |  | ⚫ |[ ]  AWS D1.4, ACI 318: Section 3.5.2Click here to enter text. |
| * 1. Installation of open-web steel joists and girders including end connections and bridging.
 |  | ⚫ |[ ]  SJI specs listed in CBC 2207.1 |
| * 1. Cold-formed steel trusses.
 |  | ⚫ |[ ]   |
| **CBC Table 1705.3 - Required Verification and Inspection for Concrete Construction** |
| 1. Inspection of reinforcing steel, including prestressing tendons and placement.
 |  | ⚫ |[ ]  ACI 318: CH 20,25.2, 25.3, 26.6.1 – 26.6.3; CBC 1908.4Click here to enter text. |
| 1. Inspection of reinforcing steel welding in accordance with Table 1705.3 Item 2b.
 |  | O |[ ]  AWS D1.4; ACI 318: 26.6.4Click here to enter text. |
| 1. Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.
 |  | ⚫ |[ ]  ACI 318: 17.8.2  |
| 1. Inspection of anchors post-installed in hardened concrete members[[1]](#footnote-1).  *[Epoxied Anchors]*
 |  |  |[ ]  ACI 318: 17.8.2. |
| * 1. Adhesive anchors installed in horizontal or upwardly inclined orientation to resist sustained tension loads.
 | ⚫ |  |[ ]  ACI 318:017.8.2.4 |
| * 1. Mechanical anchors and adhesive anchors not defined in 4.a above.
 |  | ⚫ |[ ]  ACI 318:17.8.2 |
| 1. Verifying use of required design mix.
 |  | ⚫ |[ ]  ACI 318: Ch. 19, 26.4.3, 26.4.4; CBC 1904.1, 1904.2, 1908.2, 1908.3 |
| 1. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.
 | ⚫ |  |[ ]  ASTM C 172; ASTM C31; ACI 318: 26.5, 26.12.8; CBC 1908.10  |
| 1. Inspection of concrete and shotcrete placement for proper application techniques.
 | ⚫ |  |[ ]  ACI 318: 26.5; CBC 1908.6, 1908.7, 1908.8 |
| 1. Inspection for maintenance of specified curing temperature and techniques.
 |  | ⚫ |[ ]  ACI 318: 26.5.3 – 26.5.5; CBC 1908.9Click here to enter text. |
| 1. Inspection of pre-stressed concrete for:
 |  |  |[ ]  Click here to enter text. |
| * 1. Application of prestressing forces.
 | ⚫ |  |[ ]  ACI 318: 26.10  |
| * 1. Grouting of bonded prestressing tendons in the seismic force-resisting system.
 | ⚫ |  |[ ]  ACI 318: 26.9  |
| 1. Inspect erection of precast concrete members.
 |  | ⚫ |[ ]  ACI 318: Ch. 26.8 |
| 1. 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.
 |  | ⚫ |[ ]  ACI 318: 26.11.2Click here to enter text. |
| 1. Inspect formwork for shape, location, and dimensions of the concrete member being formed.
 |  | ⚫ |[ ]  ACI 318: 26.11.1.2(b)Click here to enter text. |
| **1705.4 - Required Verification and Inspection for Masonry Construction**(TMS 402/ACI 530/ASCE 5 and TMS 602/ACI 530.1/ASCE 6) |
| 1. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.1.5 Click here to enter text. |
| 1. Verification of ƒ 'm and ƒ 'AAC prior to construction except where specifically exempted by the code.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.1.4B. Click here to enter text. |
| 1. Verification of slump flow and VSI as delivered to the site for self-consolidating grout.
 | ⚫ |  |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.1.5B.1.b.3 Click here to enter text. |
| 1. As masonry construction begins, the following shall be verified to ensure compliance:
 |  |  |[ ]  Click here to enter text. |
| * 1. Proportions of site-prepared mortar.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.2.6A. Click here to enter text. |
| * 1. Construction of mortar joints.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.3.3B . Click here to enter text. |
| * 1. Location of reinforcement, connectors, prestressing tendons, and anchorages.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.3.4, 3.6A . Click here to enter text. |
| * 1. Prestressing technique.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.3.6B. Click here to enter text. |
| * 1. Grade and size of prestressing tendons and anchorages.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.2.4B, 2.4H. Click here to enter text. |
| 1. During construction verify:
 |  |  |[ ]  Click here to enter text. |
| * 1. Size and location of structural elements.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.3.3F . Click here to enter text. |
| * 1. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, etc.
 |  | ⚫ |[ ]  TMS 402/ACI 530/ASCE 5: Sec. 1.2.2(e), 1.16.1Click here to enter text.  |
| * 1. Specified size, grade, and type of reinforcement.
 |  | ⚫ |[ ]  TMS 402/ACI 530/ASCE 5: Sec. 1.15 TMS 602/ACI 530.1/ASCE 6: Art.2.4, 3.4.  |
| * 1. Welding of reinforcing bars.
 | ⚫ |  |[ ]  TMS 402/ACI 530.1/ASCE 5: Sec. 2.1.9.7.2, 3.3.3.4(b) . |
| * 1. Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)
 |  | ⚫ |[ ]  CBC 2104.3, 2104.4;TMS 602/ACI 530.1/ASCE 6: Art.1.8C, 1.8D  |
| * 1. Application and measurement of prestressing force.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.3.6B. Click here to enter text. |
| 1. Prior to grouting verify the following:
 |  |  |[ ]  Click here to enter text. |
| * 1. Grout space is clean.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.3.2B. Click here to enter text. |
| * 1. Placement of reinforcement and connectors and prestressing tendons and anchorages.
 |  | ⚫ |[ ]  TMS 402/ACI 530/ASCE 5: Sec. 1.13; TMS 602/ACI 530.1/ASCE 6: Art.3.4 |
| * 1. Proportions of site-prepared grout and prestressing grout for bonded tendons.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.2.6B |
| * 1. Construction of mortar joints.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.3.3B |
| 1. Verify grout placement to ensure compliance with code and construction document provisions.
 | ⚫ |  |[ ]  TMS 602/ACI 530.1/ASCE 6: Art.3.5. Click here to enter text. |
| * 1. Observe grouting of prestressing bonded tendons.
 | ⚫ |  |[ ]  TMS 602/ACI 530.1/ASCE 6: : Art.3.6C. Click here to enter text. |
| 1. Observe preparation of required grout specimens, mortar specimens, and/or prisms.
 | ⚫ |  |[ ]  CBC 2105.2.2, 2105.3; TMS 602/ACI 530.1/ASCE 6: Art.1.4  |
| 1. Verify compliance with required inspection provisions of the construction documents and the approved submittals.
 |  | ⚫ |[ ]  TMS 602/ACI 530.1/ASCE 6Click here to enter text. |
| 1. Additional levels of masonry inspection are required as otherwise noted on the plans.
 |  |  |[ ]  Click here to enter text. |
| **CBC 1705.5 - Required Verification and Inspection for Wood Construction** |
| 1. Inspect prefabricated wood structural elements and assemblies in accordance with Section 1704.2.5
 |  | O |[ ]  Click here to enter text. |
| 1. Inspect site built assemblies.
 |  |  |[ ]  Click here to enter text. |
| * 1. Inspect high-load diaphragms:
 |  |  |[ ]  Click here to enter text. |
| * + 1. Verify grade and thickness of structural panel sheathing.
 |  | O |[ ]  Click here to enter text. |
| * + 1. Verify nominal size of framing members at adjoining panel edges. Verify nail or staple diameter and length, number of fastener lines, and pacing between fasteners in each line and at edge margins.
 |  | O |[ ]  Click here to enter text. |
| * 1. Metal-plate-connected wood trusses spanning 60 feet or greater:
 |  |  |[ ]  Click here to enter text. |
| * + 1. Verify that the temporary installation restraint bracing and the permanent individual truss member restraint bracing are installed in accordance with the approved truss submittal package.
 |  | O |[ ]  Click here to enter text. |
| **CBC Table 1705.6 - Required Verification and Inspection of Soils** |
| 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Verify excavations are extended to proper depth and have reached proper material.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Perform classification and testing of compacted fill materials.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill
 | ⚫ |  |[ ]  Click here to enter text. |
| 1. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.
 |  | ⚫ |[ ]  Click here to enter text. |
| **CBC Table 1705.7 - Required Inspection for Driven Deep Foundation Elements** |
| 1. Verify element materials, sizes and lengths comply with the requirements.
 | ⚫ |  |[ ]  Click here to enter text. |
| 1. Determine capacities of test elements and conduct additional load tests, as required.
 | ⚫ |  |[ ]  Click here to enter text. |
| 1. Inspect driving operations and maintain complete and accurate records for each element.
 | ⚫ |  |[ ]  Click here to enter text. |
| 1. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations and document any damage to foundation element.
 | ⚫ |  |[ ]  Click here to enter text. |
| 1. For steel elements, perform additional inspections in accordance with CBC Section 1705.2.
 |  | O |[ ]  Click here to enter text. |
| 1. For concrete elements and concrete-filled elements, perform additional inspections in accordance with CBC Section 1705.3.
 |  | O |[ ]  Click here to enter text. |
| 1. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.
 |  | O |[ ]  Click here to enter text. |
| **CBC Table 1705.8 - Required Inspection for Cast-In-Place Deep Foundation Elements** |
| 1. Inspect drilling operations and maintain complete and accurate records for each element.
 | ⚫ |  |[ ]  Click here to enter text. |
| 1. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes.
 | ⚫ |  |[ ]  Click here to enter text. |
| 1. For concrete elements, perform additional inspections in accordance with CBC Section 1705.3.
 |  | O |[ ]  Click here to enter text. |
| **CBC 1705.9 - Required Verification and Inspection for Helical Pile Foundations**  |
| 1. Record installation equipment used, pile dimensions, tip elevations, final depth, final installation torque, and other pertinent data.
 | ⚫ |  |[ ]  Click here to enter text. |
| **CBC 1705.11 - Required Verification and Inspection for Wind Resistance (Not Applicable in Sonoma)** |
| **CBC 1705.13 - Required Verification and Inspection for Seismic Resistance** |
| 1. Structural Steel Special Inspections for Seismic Resistance:
 |  |  |[ ]  CBC 1705.13.1  |
| * 1. Inspection of structural steel in accordance with AISC 341
 |  | O |[ ]  AISC 341Click here to enter text. |
| 1. Structural Wood Special Inspections for Seismic Resistance:
 |  |  |[ ]  CBC 1705.13.2  |
| * 1. Inspection of field gluing operations of elements of the seismic-force resisting system.
 | ⚫ |  |[ ]   |
| * 1. Inspection of nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Cold-formed Steel Light-Frame Construction Special Inspections for Seismic Resistance:
 |  |  |[ ]  CBC 1705.13.3 |
| * 1. Inspection during welding operations of elements of the seismic-force-resisting system.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Designated Seismic Systems Verification:
 |  |  |[ ]  CBC 1705.13.4  |
| * 1. Inspect and verify that that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with Section 1705.12.3.
 |  | ⚫ |[ ]   |
| 1. Architectural Components Special Inspections for Seismic Resistance:
 |  |  |[ ]  1705.13.5  |
| * 1. Inspection during the erection and fastening of exterior cladding and interior and exterior veneer.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspection during the erection and fastening of interior and exterior nonbearing walls.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspection during anchorage of access floors.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Plumbing, Mechanical and Electrical Components Special Inspections for Seismic Resistance:
 |  |  |[ ]  CBC 1705.13.6  |
| * 1. Inspection during the anchorage of electrical equipment for emergency or standby power systems.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspection during the anchorage of other electrical equipment.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspection during installation and anchorage of piping systems designed to carry hazardous materials, and their associated mechanical units.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspection during the installation and anchorage of HVAC ductwork that will contain hazardous materials.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspection during the installation and anchorage of vibration isolation systems.
 |  | ⚫ |[ ]  Click here to enter text. |
| * 1. Inspection during installation and anchorage of mechanical and electrical equipment, including ductwork, piping systems, fire sprinkler systems and their clearances.
 |  | ⚫ |[ ]  CBC 1705.13.6.6, ASCE/SEI7: 13.2.3 |
| 1. Storage Racks Special Inspections for Seismic Resistance:
 |  |  |[ ]  CBC 1705.13.7  |
| * 1. Inspection during the anchorage of storage racks 8 feet or greater in height
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Seismic Isolation Systems:
 |  |  |[ ]  CBC 1705.13.8  |
| * 1. Inspection during the fabrication and installation of isolator units and energy dissipation devices used as part of the seismic isolation system.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Cold-formed steel special bolted moment frames
 |  | ⚫ |[ ]  CBC 1705.13.9 |
| **CBC 1705.14 – Testing for Seismic Resistance** |
| 1. Structural Steel Testing for Seismic Resistance:
 |  |  |[ ]  1705.13.1 Click here to enter text. |
| * 1. Test in accordance with the quality assurance requirements of AISC 341.
 |  | O |[ ]  AISC 341Click here to enter text. |
| 1. Seismic Certification of Nonstructural Components:
 |  |  |[ ]  CBC 1705.14.2Click here to enter text. |
| * 1. Review certificate of compliance for designated seismic system components.
 |  | O |[ ]  Click here to enter text. |
| 1. Designated Seismic Systems subject to the requirements of Section 13.2.2 of ASCE 7.
 |  | O |[ ]  CBC 1705.14.3 |
| 1. Seismic Isolation Systems:
 |  |  |[ ]  CBC 1705.14.4  |
| * 1. Test seismic isolation system in accordance with ASCE 7 Section 17.8.
 |  | O |[ ]  ASCE 7 Section 17.8  |
| **CBC 1705.15 – Required Inspection for Sprayed Applied Fire-Resistant Materials** |
| 1. Verify surface condition preparation of structural members.
 |  | ⚫ |[ ]  CBC 1705.15.2 |
| 1. Verify application of sprayed fire-resistant materials.
 |  | ⚫ |[ ]  CBC 1705.15.3 |
| 1. Verify average thickness of sprayed fire-resistant materials applied to structural members.
 |  | ⚫ |[ ]  CBC 1705.15.4 |
| 1. Verify density of the sprayed fire-resistant material complies with approved fire-resistant design.
 |  | O |[ ]  CBC 1705.15.5 |
| 1. Verify the cohesive/adhesive bond strength of the cured sprayed fire-resistant material.
 |  | O |[ ]  CBC 1705.15.6Click here to enter text. |
| **CBC 1705.16 – Required Inspection for Mastic and Intumescent Fire-Resistant Coatings** |
| 1. Inspect mastic and intumescent fire-resistant coatings applied to structural elements and decks.
 |  | ⚫ |[ ]  CBC 1705.16 |
| **CBC 1705.17 – Required Inspection for Exterior Insulation and Finish Systems (EIFS)** |
| 1. Verify materials, details and installations are per the approved construction documents.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Inspection of water-resistive barrier over sheathing substrate.
 |  | ⚫ |[ ]  Click here to enter text. |
| **CBC 1705.87 – Required Field Inspection for Fire-Resistant Penetrations and Joints** |
| 1. Inspect penetration firestop systems.
 |  | O |[ ]  ASTM E2174Click here to enter text. |
| 1. Inspect fire-resistant joint systems.
 |  | O |[ ]  ASTM E2393Click here to enter text. |
| **CBC 1705.19 – Required Inspection and Field Testing for Smoke Control Systems** |
| 1. Leakage testing and recording of device locations prior to concealment.
 |  | ⚫ |[ ]  Click here to enter text. |
| 1. Prior to occupancy and after sufficient completion, pressure difference testing, flow measurements, and detection and control.
 |  | ⚫ |[ ]  Click here to enter text. |
| **Designer Specified Verification, Inspection or Field Testing**  |
| **Other** – Designer specified: |[ ] [ ] [ ]  Click here to enter text. |

**NOTE***: If the provisions of CBC 1706 - Design Strength of Materials, 1707 Alternative Test Procedure, 1709 - In-Situ Load Tests or 1710 - Preconstruction Load Tests are required by the Building Official, the requirements will be listed on a separate sheet.*

1. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 355.2 or other qualification procedures. Where specific requirements are not provided, special inspection requirements shall be specified by the registered design professional and shall be approved by the building official prior to the commencement of the work. [↑](#footnote-ref-1)