



STATEMENT OF SPECIAL INSPECTIONS

CASCADE INSPECTION SERVICES

MICHIGAN BUILDING CODE 2015 (MBC 2015)

Revised October 17, 2017

| PROJECT INFORMATION: | |
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| Project Name: | Project Address: |
| Owner Name: | Building Permit #: |
| Architect/Engineer Name: | |
| FORM PREPARED BY: | |
| Company Name: | Telephone #: |
| Company Address: | Fax #: |
| | Cell Phone #: |
| Architect/Engineer Name: | E-Mail Address: |
| Architect/Engineer Signature: | Date: |
| INSTRUCTIONS: | |
| <ul style="list-style-type: none"> • Complete Form: The Registered Design Professional (Architect/Engineer) shall complete this form and submit it with the Building Permit Application for review and approval by the Building Department prior to the issuance of the Building Permit (Sections 107.1, 1704.2.3, 1704.3 and 1705). This form will be attached to the approved approved plans that shall be on site for all inspections. • Provide Qualifications: Please refer to the "MINIMUM QUALIFICATIONS FOR SPECIAL INSPECTORS", posted on the Building Department website under "Special Inspection and Program" at www.cascadetwp.com. Each party involved with the Special Inspection and Testing process shall meet these minimum qualification standards (Sections 1701, 1702, 1703, 1704 and 1705). Please provide the appropriate documents that verify the qualifications of each individual or firm listed. This should include all current Education, Experience, Certifications and Accreditations required for each Special Inspector, Special Inspection Agency and Fabricator Shop. Information shall also be provided outlining the qualifications of any Testing Labs (soils, concrete, masonry, steel, and others) being used for the project. This includes information about the Accreditation of the Testing Lab, names and qualifications of each designated Laboratory Technician, and verification of the calibration of each piece of equipment used in the testing. • Note: This form is intended for buildings or structures that are assigned a Seismic Design Category A, B or C. In West Michigan, most buildings and structures are in Seismic Design Category B. However, "Essential Facilities" will be in Seismic Design Category C, unless structural calculation shows otherwise. • Special Inspections Categories: Please select all the categories that apply to your Project by checking the appropriate boxes below and enter the name of each individual responsible for the special inspections you have checked in the space provided to the right of each category. | |

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| <p>1.</p> | <p>SPECIAL CASES AS DETERMINED BY THE BUILDING OFFICIAL (1705.1.1):</p> | |
| <p>CHECK BOX BELOW IF REQUIRED</p> | <p>REQUIRED SPECIAL INSPECTIONS & TESTING</p> | <p>PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW.</p> |
| <p><input type="checkbox"/></p> | <p>1. Construction materials and systems that are alternatives to materials and systems prescribed by the MBC 2015.</p> | |
| <p><input type="checkbox"/></p> | <p>2. Unusual design applications of materials described in the MBC 2015.</p> | |
| <p><input type="checkbox"/></p> | <p>3. Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in the MBC 2015 or in referenced standards.</p> | |

| 2. STEEL CONSTRUCTION (1705.2 & TABLE 1705.2.3): | | | | |
|--|-----------|----------|--|---|
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | P | O | <p>1. Structural Steel (1705.2.1): Special inspections and non-destructive testing of structural steel shall be in accordance with the quality assurance inspection requirements of AISC 360-10.</p> <p>(Please refer to Chapter N). P = Perform for each welded joint or members, for each bolted connection, and for each steel element. O = Observe items on a random basis. Operations need not be delayed pending these inspections.</p> | |
| <input type="checkbox"/> | - | X | <p>2. Cold-Formed Steel Deck (1705.2.2): Special inspections and qualification of welding Special Inspectors for cold-formed steel floor and roof deck shall be in accordance with the quality assurance inspection requirements of SDI QA/QC</p> | |
| | | | 3. Open-Web Steel Joists & Joists Girders (1705.2.3 & Table 1705.2.3): | |
| | | | 1. Installation of open-web steel joists and girders: | |
| <input type="checkbox"/> | - | X | <p>a. End connections - welding or bolting. Referenced Standard*: SJI Specifications listed in Section 2207.1</p> | |
| <input type="checkbox"/> | - | X | <p>b. Bridging-horizontal or diagonal 1) Standard Bridging: Referenced Standard*: SJI Specifications listed in Section 2207.1</p> | |
| <input type="checkbox"/> | - | X | <p>2) Bridging that differs from the SJI specifications in Section 2207.1</p> | |
| <input type="checkbox"/> | - | X | <p>4. Cold-Formed Steel Trusses Spanning 60 Feet or Greater (1705.2.4): 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.</p> | |

* Where applicable, see also Section 1705.12, Special inspections for seismic resistance.

| 3. (1 of 2) | | CONCRETE CONSTRUCTION (1705.3, 1901.6 & TABLE 1705.3): | | |
|--|------------------|---|--|--|
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | - | X | 1. Inspection reinforcement, including prestressing tendons, and verify placement. Referenced Standards*: ACI 318: Ch. 20, 25.2, 25.3, 26.6.1-26.6.3 MBC 2015: 1908.4 | |
| | | | 2. Reinforcing bar welding: | |
| <input type="checkbox"/> | - | X | a. Verify weldability of reinforcing bars other than ASTM A706; | |
| <input type="checkbox"/> | - | X | b. Inspect single-pass fillet welds, maximum 5/16"; and | |
| <input type="checkbox"/> | X | - | c. Inspect all other welds | |
| | | | Referenced Standards*: AWS D1.4; ACI 318: 26.6.4 | |
| <input type="checkbox"/> | - | X | 3. Inspect anchors cast in concrete Referenced Standards*: ACI 318: 17.8.2 | |
| | | | 4. Inspect anchors post-installed in hardened concrete members. ** | |
| <input type="checkbox"/> | X | - | a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. Referenced Standards*: ACI 318: 17.8.2.4 | |
| <input type="checkbox"/> | - | X | b. Mechanical anchors and adhesive anchors not defined in 4.a Referenced Standards*: ACI 318: 17.8.2 | |
| <input type="checkbox"/> | - | X | 5. Verify use of required design mix. Referenced Standards*: ACI 318: Ch. 19, 26.4.3, 26.4.4 MBC 2015: 1904.1, 1904.2, 1908.2, 1908.3 | |

* Where applicable, see also Section 1705.12, Special Inspections for seismic resistance.

** Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with 17.8.2 in ACI 318, 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.

| 3. (2 of 2) | CONCRETE CONSTRUCTION (1705.3, 1901.6 & TABLE 1705.3): | | | |
|-----------------------------|--|----------|---|---|
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | X | - | 6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. Referenced Standards*: ASTM C172; ASTM C31; ACI 318: 26.4, 26.12 MBC 2015: 1908.10 | |
| <input type="checkbox"/> | X | - | 7. Inspect concrete and shotcrete placement for proper application techniques. Referenced Standards*: ACI 318: 26.5 MBC 2015: 1908.6, 1908.7, 1908.8 | |
| <input type="checkbox"/> | - | X | 8. Verify maintenance of specified curing temperature and techniques. Referenced Standards*: ACI 318: 26.5.3-26.5.5 MBC 2015: 1908.9 | |
| | | | 9. Inspection of prestressed concrete: | |
| <input type="checkbox"/> | X | - | a. Application of prestressing forces. Referenced Standards*: ACI 318: 26.10 | |
| <input type="checkbox"/> | X | - | b. Grouting of bonded prestressing tendons. Referenced Standards*: ACI 318: 26.10 | |
| <input type="checkbox"/> | - | X | 10. Inspect erection of precast concrete members. Referenced Standards*: ACI 318: 26.8 | |
| <input type="checkbox"/> | - | X | 11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to the removal of shores and forms from beams and structural slabs. Referenced Standards*: ACI 318: 26.11.2 | |
| <input type="checkbox"/> | - | X | 12. Inspect formwork for shape, location, and dimensions of the concrete members being formed. Referenced Standards*: ACI 318: 26.11.1.2(b) | |

* Where applicable, see also Section 1705.12, Special Inspections for seismic resistance.

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| 4. | MASONRY CONSTRUCTION (1705.4): | |
| | Special Inspections and Tests of masonry construction shall be in accordance with the provisions of Section 2101.3 and 2105 of MBC 2015 and with the Masonry Standard TMS 402/ACI 530/ASCE 5 and TMS 602/ACI 530.1/ASCE 6 Quality Assurance Program indicated in Section 3.1 of TMS 402-13/ACI 530-13/ASCE 5-13. | |
| | Exception: Special Inspections and Tests are not required for masonry construction that meets one of the three exceptions listed in Section 1705.4 of MBC 2015. | |
| <ul style="list-style-type: none"> • The level of required quality assurance depends on whether the masonry was designed in accordance with Part 3, Appendix B or Appendix C (Engineered) or in accordance with Part 4 or Appendix A (Empirical or Prescriptive) of the Masonry Standard TMS 402-13/ACI 530-13/ASCE 5-13. • There are three levels of quality assurance for masonry construction (Levels A, B, or C) listed below. Please identify which one applies to your project. | | |
| CHECK BOX BELOW IF REQUIRED | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | <p style="text-align: center;">Level A Quality Assurance</p> <p>per applicable provision of Section 3.1.1 of TMS 402-13/ACI 530-13/ASCE 5-13.</p> | The minimum quality assurance program for masonry in Risk Category I, II, or III structures and designed in accordance with Part 4 or Appendix A shall comply with Table 3.1.1 of TMS 402/ACI 530/ASCE 5. |
| <input type="checkbox"/> | <p style="text-align: center;">Level B Quality Assurance</p> <p>per applicable provision of Section 3.1.2 of TMS 402-13/ACI 530-13/ASCE 5-13.</p> | The minimum quality assurance program for masonry in Risk Category IV structures and designed in accordance with Chapter 12 or 13 shall comply with Table 3.1.2 of TMS 402/ACI 530/ASCE 5. |
| <input type="checkbox"/> | | The minimum quality assurance program for masonry in Risk Category I, II, or III structures and designed in accordance with Chapters other than those in Part A or Appendix A shall comply with Table 3.1.2 of TMS 402/ACI 530/ASCE 5. |
| <input type="checkbox"/> | <p style="text-align: center;">Level C Quality Assurance</p> <p>per applicable provision of Section 3.1.3 of TMS 402-13/ACI 530-13/ASCE 5-13.</p> | The minimum quality assurance program for masonry in Risk Category IV structures and designed in accordance with Chapters other than those in Part 4 or Appendix A with Table 3.1.3 of TMS 402/ACI 530/ASCE 5. |
| <input type="checkbox"/> | <p style="text-align: center;">Vertical Masonry Foundation Elements</p> <p>per Section 1705.4.2 of MBC-2015.</p> | Special Inspection and Tests shall be performed in accordance with Section 1705.4 of MBC 2015 for vertical masonry foundation elements. |

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| <p>5.</p> | <p>WOOD CONSTRUCTION (1705.5):</p> <ul style="list-style-type: none"> • Special Inspections of prefabricated wood structural elements and assemblies (covering: walls, floors, or roof assemblies along with manufactured roof trusses) shall be in accordance with Section 1704.2.5 • Special Inspections of site-built assemblies shall be in accordance with Section 1705.5 as indicated below. | |
| <p>CHECK BOX BELOW IF REQ'D</p> | <p>REQUIRED SPECIAL INSPECTIONS & TESTING</p> | <p>PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW.</p> |
| <p><input type="checkbox"/></p> | <p>1. High-load diaphragms designed in accordance with Section 2306.2 shall be installed with special inspections as indicated in Sections 1074.2 and 1705.5.1 covering:</p> <ol style="list-style-type: none"> 1. Inspect the wood structural panel sheathing to verify that it is of the grade and thickness shown on the approved construction documents; and 2. Verify the nominal size of the framing members at adjoining panel edges, the nail or staple diameter and length, the number of fastener lines and that the spacing between fasteners in each line and at edge margins agrees with the approved construction documents. | |
| <p><input type="checkbox"/></p> | <p>2. Metal-plate-connected wood trusses spanning 60 feet or greater (1705.5.2):</p> <p>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.</p> | |

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| 6. | SOILS (1705.6 & TABLE 1705.6): <ul style="list-style-type: none"> • Perform Special Inspections and Tests of existing site soil conditions, fill placement and load-bearing requirements as required by Section 1705.6 and Table 1705.6. • Determine compliance using the approved geotechnical report (Section 1803.6), and the construction documents prepared by the Registered Design Professional. • Determine that proper materials and procedures are used during fill placement and in accordance with the provisions of the approved geotechnical report. <p>Exception: Where Section 1803 does not require reporting of the materials and procedures for fill placement, the special inspector shall verify that the in-place dry density of the compacted fill is not less than 90% of the maximum dry density at optimum moisture content determined in accordance with ASTM D 1557.</p> | | | |
| | CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING |
| <input type="checkbox"/> | - | X | 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | |
| <input type="checkbox"/> | - | X | 2. Verify excavations are extended to proper depth & have reached proper material. | |
| <input type="checkbox"/> | - | X | 3. Perform classification and testing of controlled fill materials. | |
| <input type="checkbox"/> | X | - | 4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill. | |
| <input type="checkbox"/> | - | X | 5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly. | |

| 7. | DRIVEN DEEP FOUNDATIONS (1705.7 & TABLE 1705.7): <ul style="list-style-type: none"> • Perform Special Inspections and Tests during installation of driven deep foundation elements as specified in Table 1705.7. • Determine compliance using the approved geotechnical report (section 1803.6) and the construction documents prepared by the Registered Design Professionals. | | | |
|-----------------------------|--|----------|---|---|
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | X | - | 1. Verify elements, materials, size, and lengths comply with the requirements. | |
| <input type="checkbox"/> | X | - | 2. Determine capacities of test elements and conduct additional load tests, as required. | |
| <input type="checkbox"/> | X | - | 3. Inspect driving operations and maintain complete and accurate records for each element. | |
| <input type="checkbox"/> | X | - | 4. 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. | |
| <input type="checkbox"/> | - | - | 5. For steel elements, perform additional special inspections in accordance with Section 1705.2. | |
| <input type="checkbox"/> | - | - | 6. For concrete elements and concrete-filled elements, perform additional special inspections in accordance with Section 1705.3. | |
| <input type="checkbox"/> | - | - | 7. For specialty elements, perform additional inspections as determined by the Registered Design Professional in Responsible Charge. | |

| 8. CAST-IN-PLACE DEEP FOUNDATIONS (1705.8 & TABLE 1705.8): | | | | |
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| <ul style="list-style-type: none"> • Perform Special Inspections and Tests during installation of cast-in-place deep foundation elements as specified in Table 1705.8. • Determine compliance using the approved geotechnical report (Section 1803.6), and the construction documents prepared by the Registered Design Professionals. | | | | |
| CHECK BOX BELOW IF REQ'D | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | X | - | 1. Inspect drilling operations and maintain complete and accurate records for each element. | |
| <input type="checkbox"/> | X | - | 2. 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. | |
| <input type="checkbox"/> | - | - | 3. For concrete elements, perform testing and additional special inspections in accordance with Section 1705.3. | |

| 9. HELICAL PILE FOUNDATIONS (1705.9): | | | | |
|--|-----------|----------|---|---|
| CHECK BOX BELOW IF REQ'D | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | X | - | 1. Perform Special Inspections continuously during installation of helical pile foundations. | |
| <input type="checkbox"/> | X | - | 2. Record information for each helical pile that includes installation equipment used, pile dimensions, tip elevations, final depth, final installation torque and other pertinent installation data as required by the Registered Design Professional in responsible charge. | |
| <input type="checkbox"/> | X | - | 3. Determine compliance using the approved geotechnical report (Section 1803.6) and the approved construction documents prepared by the Registered Design Professional. | |

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| 10. | FABRICATED ITEMS (1705.10): Special Inspections of fabricated items shall be performed in accordance with Sections 1704.2.5 Where fabrication of structural, load-bearing or lateral load-resisting members or assemblies is being conducted on the premises of Fabricator's shop, Special Inspections of the fabricated items shall be performed during fabrication, unless one of the two exemptions below apply: PLEASE IDENTIFY WHICH EXCEPTION APPLIES, IF ANY, BY MARKING THE APPLICABLE BOX BELOW: | | |
| | <input type="checkbox"/> | Exception 1. Special Inspections during fabrication are not required where the fabricator maintains approved detail fabrication and quality control procedures that provide a basis for control of the workmanship and the fabricator's ability to conform to approved construction documents and MBC 2015. Approval shall be based upon review of fabrication and quality control procedures and periodic inspections of fabrication practices by the Building Official. Approval by the Building Official required to use this exception. | |
| | <input type="checkbox"/> | Exception 2. Special Inspections are not required where the fabricator is registered and approved in accordance with Section 1704.2.5.1. Section 1704.2.5.1 (Fabricator Approval): Special Inspections during fabrication are not required where the work is done on the premises of a fabricator registered and approved to perform such work without Special Inspections. Approval shall be based upon review of the Fabricator's written procedural and quality control manuals and periodic auditing of fabrication practices by an Approved Agency (An established and recognized agency that is regularly engaged in conducting tests or furnishing inspections services, where such agency has been approved by the Building Official). | |
| CHECK BOX BELOW IF REQUIRED | INDICATE BELOW ALL STRUCTURAL LOAD-BEARING OR LATERAL LOAD-RESISTING MEMBERS OR ASSEMBLIES THAT ARE BEING FABRICATED ON THE PREMISES OF A FABRICATOR'S SHOP | INDICATE BELOW THE NAME, ADDRESS & PHONE NUMBER OF EACH FABRICATOR'S SHOP | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND THE INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE. PLEASE NOTE THE REQUIRED TASKS THAT SHALL BE COMPLETED LISTED AT THE BOTTOM OF THIS CATEGORY |
| <input type="checkbox"/> | 1. Structural Steel. | | |
| <input type="checkbox"/> | 2. Steel Joists & Girders. | | |
| <input type="checkbox"/> | 3. Pre-Cast/Prestressed Concrete. | | |
| <input type="checkbox"/> | 4. Metal Building Systems. | | |
| <input type="checkbox"/> | 5. Wood Trusses. | | |
| <input type="checkbox"/> | 6. Wood Wall Panels. | | |
| <input type="checkbox"/> | 7. Cold-Formed Steel Trusses. | | |
| <input type="checkbox"/> | 8. Cold Formed Steel Structural and Non-Structural Components not Requiring Welding. | | |
| <input type="checkbox"/> | 9. | | |
| Required tasks to complying with the requirements of Special Inspection of Fabricated items: | | | |
| 1. Prior to issuance of the Building Permit, provide the Building Department with a copy of the selected Fabricator's current shop accreditation/certification. | | | |
| 2. At the completion of fabrication, the Special Inspector and/or Special Inspection Agency shall obtain from the approved Fabricator a Certificate of Compliance stating that the work was performed in accordance with the approved construction documents and submit all certifications to the Building Official as required per Sections 1704.5 and 1704.2.5.1. | | | |

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| 12. (1 of 4) | SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (1705.12): Special Inspections for Seismic Resistance shall be required as specified in Sections 1705.12.1 through 1705.12.9, unless exempted by the exceptions of Section 1704.2. Also, the Special Inspections specified in Sections 1705.12.1 through 1705.12.9 are not required for structures designed and constructed in accordance with one of the following (please check the exception below that applies to your project): | | | |
| | <input type="checkbox"/> | 1. | The structure consists of light-frame construction; the design spectral response acceleration at short periods, S_{DS} , as determined in Section 1613.3.4, does not exceed 0.5; and the building height of the structure does not exceed 35 feet. | |
| | <input type="checkbox"/> | 2. | The seismic force-resisting system of the structure consists of reinforced masonry or reinforced concrete; the design spectral response acceleration at short periods, S_{DS} , as determined in Section 1613.3.4, doesn't not exceed 0.5; and the building height of the structure doesn't not exceed 25 feet. | |
| | <input type="checkbox"/> | 3. | The structure is detached one- or two-family dwelling not exceeding two stories above grade plane and does not have any of the following horizontal or vertical irregularities in accordance with Section 12.3 of ASCE 7-10: 3.1 Torsional or extreme torsional irregularity. 3.2 Nonparallel systems irregularity. 3.3 Stiffness-soft story or stiffness-extreme soft story irregularity. 3.4 Discontinuity in lateral strength-weak story irregularity. | |
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| | | | 12.1 Structural Steel (1705.12.1): | |
| <input type="checkbox"/> | X | - | 12.1.1 Seismic Force-Resisting Systems (1705.12.1.1): Special inspections of Structural Steel in the seismic force-resisting systems of building and structures assigned to Seismic Design Category B, C, D, E or F shall be performed in accordance with the quality assurance requirements of AISC 341-10 Exception: Special inspections are not required in the seismic force-resisting systems of buildings and structures assigned to Seismic Design Category B or C that are not specifically detailed for seismic resistance, with a response modification coefficient, R, of 3 or less, excluding cantilever column systems. | |

| 12. (2 of 4) | SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (S1705.12): | | | | |
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| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | - | X | <p>12.1.2 Structural Steel Elements (1705.12.1.2): Special inspections of structural steel elements in the seismic force-resisting systems of buildings and structures assigned to Seismic Design Category B, C, D, E or F other than covered in Section 1705.12.1.1, including struts, collectors, chords and foundation elements, shall be performed in accordance with the quality assurance requirements of AISC 341-10.</p> <p>Exception: Special inspections of structural steel elements are not required in the seismic force-resisting systems of buildings and structures assigned to Seismic Design Category B or C with a response modification coefficient, R, of 3 or less.</p> | | |
| | | | <p>12.2 Structural Wood (1705.12.2): For the seismic force-resisting systems of structures assigned to Seismic Design Category C, D, E, or F:</p> | | |
| <input type="checkbox"/> | X | - | <p>1. During field gluing operations of elements of seismic force-resisting system.</p> | | |
| <input type="checkbox"/> | - | X | <p>2. For nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including wood shear walls, wood diaphragms, struts, braces, shear panels and hold-downs.</p> | | |
| | | | <p>Exception: Special inspections are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other elements of the seismic force-resisting system, where the fastener spacing of the sheathing is more than 4 inches on center.</p> | | |

| 12. (3 of 4) | SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (1705.12): | | | | |
|-----------------------------------|---|----------|--|--|--|
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| | | | 12.3 Cold-Formed Steel Light-Frame Construction (1705.12.3): For the seismic force-resisting systems of structures assigned to Seismic Design Category C, D, E or F: | | |
| <input type="checkbox"/> | - | X | 1. For welding operations of elements of the seismic force-resisting system; and | | |
| <input type="checkbox"/> | - | X | 2. For screw attachments, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs. | | |
| | | | Exception: Special inspections are not required for cold-formed steel light-frame shear walls and diaphragms, including screw installation, bolting, anchoring and other fastening to components of the seismic force-resisting system, where either of the following applies: 1. The sheathing is gypsum board or fiberboard. 2. The sheathing is wood structural panel or steel sheets on only one side of the shear wall, shear panel or diaphragm assembly and the fastener spacing of the sheathing is more than 4 inches on center. | | |
| <input type="checkbox"/> | - | - | 12.4 Designated Seismic Systems (1705.12.4): For structures assigned to Seismic Design Category C, D, E or F , the special inspector shall examine designated seismic systems requiring seismic qualification in accordance with Section 13.2.2 of ASCE 7-10 and verify that the label, anchorage and mounting conform to the certificate of compliance. | | |

| 12. (4 of 4) | SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE (S1705.12): | | | |
|-----------------------------------|--|----------|--|--|
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| | | | 12.6 Plumbing, Mechanical and Electrical Components (1705.12.6): | |
| <input type="checkbox"/> | - | X | 1. Anchorage of electrical equipment for emergency and standby power systems in structures assigned to Seismic Design Category C, D, E or F. | |
| <input type="checkbox"/> | - | X | 3. Installation and anchorage of piping systems designed to carry hazardous and their associated mechanical units in structures assigned to Seismic Design Category C, D, E or F. | |
| <input type="checkbox"/> | - | X | 4. Installation and anchorage of ductwork designed to carry hazardous materials in structures assigned to Seismic Design Category C, D, E or F. | |
| <input type="checkbox"/> | - | X | 5. Installation and anchorage of vibration isolation systems in structures assigned to Seismic Design Category C, D, E or F. where the approved construction documents require a nominal clearance of 1/4 inches or less between the equipment support frame and restraint. | |
| <input type="checkbox"/> | - | X | 12.8 Seismic Isolation Systems (S1705.12.8): For seismic isolation systems in seismically isolated structures assigned to Seismic Design Category B, C, D, E or F during the fabrication and installation of isolator units and energy dissipation devices. | |

| 13. (1 of 2) | TESTING FOR SEISMIC RESISTANCE (1705.13): | | | |
|--|--|-----------------|---|---|
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | - | X | <p>13.1 Structural Steel (1705.13.1):</p> <p>13.1.1 Seismic Force-Resisting Systems (1705.13.1.1): Nondestructive testing of structural steel in seismic force-resisting systems of building and structures assigned to Seismic Design Category B, C, D, E or F shall be performed in accordance with the quality assurance requirements of AISC 341-10.</p> <p>Exception: Nondestructive testing is not required in seismic force-resisting systems of buildings and structures assigned to Seismic Design Category B or C that are not specifically detailed for seismic resistance, with a response modification coefficient, R, of 3 or less, excluding cantilever column systems.</p> | |
| <input type="checkbox"/> | - | X | <p>13.1.2 Structural Steel Elements (1705.13.1.2): Nondestructive testing of structural steel elements in seismic force-resisting systems of building and structures assigned to Seismic Design Category B, C, D, E or F other than those covered in Section 1705.13.1.1, including struts, collectors, chords and foundation elements, shall be performed in accordance with the quality assurance requirements of AISC 341-10.</p> <p>Exception: Nondestructive testing is not required in seismic force-resisting systems of buildings and structures assigned to Seismic Design Category B or C that are not specifically detailed for seismic resistance, with a response modification coefficient, R, of 3 or less.</p> | |

| 13. (2 of 2) | | | | |
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| TESTING FOR SEISMIC RESISTANCE (1705.13): | | | | |
| CHECK BOX BELOW IF REQUIRED | CONTINUAL | PERIODIC | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | - | X | 13.2 Nonstructural Components (1705.13.2): For structures assigned to Seismic Design Category B, C, D, E or F , where the requirements of Section 13.2.1 of ASCE 7-10 for nonstructural components, supports on attachments are met by seismic qualification as specified in Item 2 therein, the Registered Design Professional shall specify on the approved construction documents the requirements for seismic qualification by analysis, testing or experience data. Certificates of Compliance for the seismic qualification shall be submitted to the Building Official as specified in Section 1705.4.5. | |
| <input type="checkbox"/> | - | X | 13.3 Designated Seismic Systems (1705.13.3): For structures assigned to Seismic Design Category C, D, E or F and with designated seismic systems that are subject to the requirements of Section 13.2.2 of ASCE 7-10 for certification, the Registered Design Professional shall specify, on the approved construction documents, the requirements to be met by analysis testing or experience data as specified therein. Certificates of Compliance documenting that the requirements are met shall be submitted to the Building Official as specified in 1704.5. | |
| <input type="checkbox"/> | - | X | 13.4 Seismic Isolation Systems (1705.13.4): Seismic isolation systems in seismically isolated structures assigned to Seismic Design Category B, C, D, E or F shall be tested in accordance with Section 17.8 of ASCE 7-10 . | |

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| <p>14.</p> | <p>SPRAYED FIRE-RESISTANT MATERIALS (1705.14):</p> <ul style="list-style-type: none"> • Special Inspections and Tests for sprayed fire-resistant materials applied to floor, roof and wall assemblies and structural members shall be in accordance with Sections 1705.14.1 through 1705.14.6. • Special Inspections shall be based on the fire-resistance design as designated in the approved construction documents. • The tests set forth in Section 1705.14 shall be based on samplings from specific floor, roof and wall assemblies and structural members. • Special Inspections and Testing shall be performed after the rough installation of electrical, automatic sprinkler, mechanical, and plumbing systems and suspension systems for ceilings, where applicable. | |
| <p>CHECK BOX BELOW IF REQ'D</p> | <p>REQUIRED SPECIAL INSPECTIONS & TESTING</p> | <p>PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW.</p> |
| <p><input type="checkbox"/></p> | <p>Perform Spray Fire-Resistant Materials Inspections per applicable provision of Section 1705.14.</p> | |

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| <p>15.</p> | <p>MASTIC & INTUMESCENT FIRE-RESISTANT COATINGS (1705.15)</p> | |
| <p>CHECK BOX BELOW IF REQ'D</p> | <p>REQUIRED SPECIAL INSPECTIONS & TESTING</p> | <p>PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW.</p> |
| <p><input type="checkbox"/></p> | <p>Special Inspections and Tests for mastic and intumescent fire-resistant coatings applied to structural elements and decks shall be in accordance with AWCI 12-B and shall be based on the fire-resistance design as designated in the approved construction documents.</p> | |

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| 16. | EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS) (1705.16 AND 1408.6): | |
| CHECK BOX BELOW IF REQUIRED | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | <p>Special Inspections are required for all EIFS applications unless one of the following exceptions applies.</p> <p>Exception #1: EIFS applications installed over a water-resistive barrier with a means of draining moisture to the exterior. Please verify the Special Inspection is not required by the ICC Report of approval for the selected EIFS.</p> <p>Exception #2: EIFS applications installed over masonry or concrete walls.</p> <p>Note: The Registered Design Professional shall indicate on the space to the right and on the plans the ICC Report approval number for the selected EIFS Application.</p> | |

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| 17. | FIRE-RESISTANT PENETRATIONS AND JOINTS (1705.17): | |
| CHECK BOX BELOW IF REQUIRED | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | <p>• In high-rise buildings or in buildings assigned to Risk Category III or IV in accordance with Section 1604.5, Special Inspections for through-penetrations, membrane penetration firestops, fire-resistant joint systems, and perimeter fire barrier systems that are tested and listed in accordance with Sections 714.3.1.2, 714.4.2, 715.3, and 715.4 shall be in accordance with Section 1705.17.1 or 1705.17.2.</p> <p>1. Penetration Firestops (1705.17.1): Special Inspections of penetration firestop systems that are tested and listed in accordance with Sections 714.3.1.2 and 714.4.2 shall be conducted by an approved Agency in accordance with ASTM E 2174.</p> | |
| <input type="checkbox"/> | <p>2. Fire-Resistant Joint Systems (1705.17.2): Special Inspection of fire-resistant joint systems that are tested and listed in accordance with Sections 715.3 and 715.4 shall be conducted by an approved Agency in accordance with ASTM E 2393.</p> | |

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| 18. | SPECIAL INSPECTIONS FOR SMOKE CONTROL (1705.18): | |
| CHECK BOX BELOW IF REQUIRED | REQUIRED SPECIAL INSPECTIONS & TESTING | PLEASE PROVIDE THE NAME AND PHONE NUMBER OF THE SPECIAL INSPECTION AGENCY AND INDIVIDUAL PERFORMING THIS SPECIAL INSPECTION SERVICE IN THE SPACE BELOW. |
| <input type="checkbox"/> | <p>Testing Scope (1705.18.1): The test shall be as follows:</p> <ol style="list-style-type: none"> 1. During erection of ductwork and prior to concealment for the purposes of leakage testing and recording of device location. 2. Prior to occupancy and after sufficient completion for the purposes of pressure difference testing, flow measurements and detection and control verification. | |