



# Statement of Special Inspections

The design engineer (or design architect if no engineer; applicant if no design professional) must complete this form in accordance with IBC Chapter 17 and submit with plans for a building permit.

Building Permit Number: \_\_\_\_\_

Project Name: \_\_\_\_\_ Project Address: \_\_\_\_\_

### Special Inspection Firm

Special Inspectors must be certified in the applicable discipline of work needing special inspection.

Name(print): \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

### Design Professional in Responsible Charge Acting as the Owner's Agent

Name(print): \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

### Owner

Name(print): \_\_\_\_\_

E-mail: \_\_\_\_\_ Phone: \_\_\_\_\_

Please note: The owner or registered design professional in responsible charge acting as the owner's agent- **not the contractor**- shall employ one or more approved agencies to perform special inspections services.

I acknowledge that I have read the note above and will employ the special inspector(s).

\_\_\_\_\_  
*Owner's Signature* *Date*

### Structural Engineer

Name(print): \_\_\_\_\_

E-mail: \_\_\_\_\_

Phone: \_\_\_\_\_

Name of Design Professional/Applicant completing the Statement of Special Inspection

Name(Print): \_\_\_\_\_

Date: \_\_\_\_\_



*Design Engineer (or Design Architect if no engineer) provide Design Professionals stamp, signature and date completing the Statement of Special Inspections*

### Scope of work to be inspected by Special Inspection firm to meet IBC Section 1704

|                              |                             |           |   |   |
|------------------------------|-----------------------------|-----------|---|---|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.12.1 | Structural Steel AISC 341                 | If yes complete TABLE 8   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.2.1  | Structural Steel AISC 360                 | If yes complete TABLE 9   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.2.2  | Cold-formed steel deck-SDI QA/QC          | If yes, specify:  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.2.3  | Open-web steel joists and joist girders   | If yes complete TABLE 1   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.3    | Concrete Construction                     | If yes complete TABLE 2   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.4    | Masonry Construction                      | If yes indicate required level:<br><input type="checkbox"/> Level 1<br><input type="checkbox"/> Level 2<br><input type="checkbox"/> Level 3<br>See TABLE 3 below<br>See TABLE 4 below |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.4.2  | Vertical masonry foundations elements     | If yes indicate required level:<br><input type="checkbox"/> Level 1<br><input type="checkbox"/> Level 2<br><input type="checkbox"/> Level 3<br>See TABLE 3 below<br>See TABLE 4 below |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.5    | Wood Construction                         | <input type="checkbox"/> High-load diaphragms<br><input type="checkbox"/> Metal plate connected wood trusses spanning 60 feet or greater  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.6    | Soils                                     | If yes complete TABLE 5   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.7    | Driven Deep Foundations                   | If yes complete TABLE 6   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.8    | Cast in Place Deep Foundations            | If yes complete TABLE 7   |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.9    | Helical Pile Foundations                  | If yes, specify:  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.10   | Fabricated Items                          | If yes complete section 1704.2.5  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.11   | Special inspection for wind resistance    | Structural wood (continuous)<br>Cold formed steel light-frame construction(periodic)<br>Wind resisting components (periodic)  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.12   | Special inspection for seismic resistance | Complies with one of the exceptions there-fore sections 1705.12.1 - 1705.12.9 don't apply<br>If special inspection is required complete TABLE 8                                       |

|                              |                             |           |   |  |
|------------------------------|-----------------------------|-----------|---|--|
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.13   | Testing for seismic resistance                | If yes complete section 1705.13.1 – 1705.13.4 unless exempted from special inspections by section 1704.2 |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.14   | Sprayed Fire-Resistant Materials              |  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.15   | Mastic & Intumescent Fire -Resistant Coatings |  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.16   | Exterior Insulation & Finish Systems (EIFS)   |  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.17   | Fire-Resistant penetrations and joints        |  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.17.1 | Penetration firestops                         |  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.17.2 | Fire-resistant joint systems                  |  |
| <input type="checkbox"/> Yes | <input type="checkbox"/> No | 1705.18   | Special Inspection for Smoke Control          |  |

**TABLE 1**  
**1705.2.3 Required Special Instructions of Open-Web Steel Joists and Joist Girders**

| Yes | No | MATERIAL / ACTIVITY  | Continuous | Periodic |
|-----|----|--|------------|----------|
|     |    | 1. Installation of open-web steel joists and joist girders                     |            |          |
|     |    | a. End connections – welding or bolted.  | -          | X        |
|     |    | b. Bridging – horizontal or diagonal.  | -          |          |
|     |    | 1. Standard bridging.  | -          | X        |
|     |    | 2. Bridging that differs from the SJI specifications listed in Section 2207.1. |            | X        |

**TABLE 2**  
**1705.3 Concrete Construction**

| Yes | No | MATERIAL / ACTIVITY  | Continuous | Periodic |
|-----|----|--|------------|----------|
|     |    | 1. Inspection of reinforcing steel, including prestressing tendons, and placement.                                 | -          | X        |
|     |    | 2. Reinforcing bar welding:  |            |          |
|     |    | a. Verify weldability of reinforcing bars other than ASTM A 706;   | -          | X        |
|     |    | b. Inspect single-pass fillet welds, maximum 5/16"   |            | X        |
|     |    | c. Inspect all other welds   | X          |          |
|     |    | 3. Inspect anchors cast in concrete  | -          | X        |
|     |    | 4. Inspect anchors post-installed in hardened concrete members   |            |          |
|     |    | a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads. | X          |          |
|     |    | b. Mechanical anchors and adhesive anchors not defined in 4.a  |            |          |
|     |    | 5. Verify use of required design mix   | -          | X        |

|  |  |   |   |
|--|--|---|---|
|  | 6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.              | X | - |
|  | 7. Inspect concrete and shotcrete placement for proper application techniques.   | X | - |
|  | 8. Verify maintenance of specified curing temperature and techniques.  | - | X |
|  | 9. Inspection of prestressed concrete for:   |   |   |
|  | a. Application of prestressing forces  | X | - |
|  | b. Grouting of bonded prestressing tendons   | X | - |
|  | 10. Inspect erection of precast concrete members.  | - | X |
|  | 11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs. | - | X |
|  | 12. Inspect formwork for shape, location and dimensions of the concrete member being formed.   | - | X |

**Table 3**  
**Minimum Verification Requirements**  
**TMS 402/602-16**

| Minimum Verification   | Required for Quality Assurance <sup>(a)</sup> |         |         | Reference for Criteria |
|--|---|---------|---------|------------------------|
|  | Level 1                                       | Level 2 | Level 3 | TMS 602                |
| Prior to construction, verification of compliance of submittals.   | R   | R       | R       | Art. 1.5               |
| Prior to construction, Verification of f 'm and f 'aac, except where specifically exempted by the code.  | NR  | R       | R       | Art 1.4 B              |
| During construction, verification of slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the site.   | NR  | R       | R       | Art. 1.5 & 1.6.3       |
| During construction, verification of f 'm and f 'acc for every 5,000 sq. ft. (465 sq. m)   | NR  | NR      | R       | Art. 1.4 B             |
| During construction, verification of proportions of materials as delivered to the project site for premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout. | NR  | NR      | R       | Art. 1.4 B             |
| (a) R=Required NR=Not Required   |   |         |         |                        |

**Table 4**  
**Minimum Special Inspection Requirements**

| Inspection Task  | Frequency <sup>(a)</sup> |                                    |         | Reference for Criteria         |                          |
|--|--------------------------|------------------------------------|---------|--------------------------------|--------------------------|
|  | Level 1                  | Level 2                            | Level 3 | TMS 402                        | TMS 602                  |
| 1. As masonry construction begins, verify that the following are in compliance:                              |                          |                                    |         |                                |                          |
| a) Proportions of site prepared mortar.  | NR                       | P                                  | P       |                                | Art. 2.1, 2.6 A, & 2.6 C |
| b) Grade and sizing of prestressing tendons and anchorages.  | NR                       | P                                  | P       |                                | Art. 2.4 B & 2.4 H       |
| c) Grade, type and size of reinforcement, connectors, anchor bolts, and prestressing tendons and anchorages. | NR                       | P                                  | P       |                                | Art. 3.4 & 3.6 A         |
| d) Prestressing technique  | NR                       | P                                  | P       |                                | Art. 3.6 B               |
| e) Properties for thin -bed mortar for AAC masonry   | NR                       | C <sup>(b)</sup> /P <sup>(c)</sup> | C       |                                | Art. 2.1 C.1             |
| f) Sample and panel construction   | NR                       | P                                  | C       |                                | Art. 1.6 D               |
| 2. Prior to grouting, verify that the following are in compliance:   |                          |                                    |         |                                |                          |
| a) Grout space   | NR                       | P                                  | C       |                                | Art. 3.2 D & 3.2 F       |
| b) Placement of prestressing tendons and anchorages.   | NR                       | P                                  | P       | Sec. 10.8 & 10.9               | Art. 2.4 & 3.6           |
| c) Placement of reinforcement, connectors, and reinforcement.  | NR                       | P                                  | C       | Sec. 6.1, 6.3.1, 6.2.1 & 6.3.7 | Art. 3.2 E & 3.4         |
| d) Proportions of site-prepared grout and prestressing grout for bonded tendons                              | NR                       | P                                  | P       |                                | Art. 2.6 B & 2.4 G.1.b   |
| 3. Verify compliance of the following during construction:   |                          |                                    |         |                                |                          |
| a) Materials and procedures with the approved submittals.  | NR                       | P                                  | P       |                                | Art. 1.5                 |
| b) Placement of masonry units and mortar joint construction.   | NR                       | P                                  | P       |                                | Art. 3.3 B               |
| c) Size and location of structural members.  | NR                       | P                                  | P       |                                | Art. 3.3 F               |
| d) Type, size and location of anchors, including other details of anchorage of masonry to                    | NR                       | P                                  | C       | Sec. 1.2.1(e), 6.2.1, & 6.3.1  |                          |

|  |    |                                    |   |                |  |
|--|----|------------------------------------|---|----------------|--|
| structural members, frames, or other construction.   |    |                                    |   |                |  |
| e) Welding of reinforcement.   | NR | C                                  | C | Sec. 6.1.6.1.2 |  |
| f) Preparation, construction, and protection of masonry during cold weather (temperature below 40°F 4.4°C) or hot weather (temperature above 90°F 32.2°C). | NR | P                                  | P |                | Art. 1.8 C & 1.8 D   |
| g) Application and measurement of prestressing force.  | NR | C                                  | C |                | Art. 3.6 B   |
| h) Placement of grout and prestressing grout for bonded tendons is in compliance.  | NR | C                                  | C |                | Art. 3.5 & 3.6 C   |
| i) Placement of AAC masonry units and construction of thin -bed mortar joints.   | NR | C <sup>(b)</sup> /P <sup>(c)</sup> | C |                | Art. 3.3 B.9 & 3.3 F.1.b                                       |
| 4. Observe preparation of grout specimens, mortar specimens, and/or prisms.  | NR | P                                  | C |                | Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4 |

(a) Frequency refers to the frequency of inspections, which may be continuous during the listed task or periodically during the listed task, as defined in the table.

NR= Not Required, P=Periodic, C=Continuous

(b) Required for the first 5000 square feet (465 square meters) of AAC masonry.

(c) Required for the first 5000 square feet (465 square meters) of AAC masonry.

**TABLE 5**  
**1705.6 Soils**

| Yes | No | MATERIAL / ACTIVITY   | Continuous | Periodic |
|-----|----|---|------------|----------|
|     |    | 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.                    |            | X        |
|     |    | 2. Verify excavations are extended to proper depth and have reached proper material.                                  |            | X        |
|     |    | 3. Perform classification and testing of compacted fill materials.  |            | X        |
|     |    | 4. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill. | X          |          |
|     |    | 5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.            |            | X        |

**TABLE 6**  
**1705.7 Driven Deep Foundations**

| Yes | No | MATERIAL / ACTIVITY   | Continuous   | Periodic |
|-----|----|---|--|----------|
|     |    | 1. Verify element materials, sizes and lengths comply with the requirements.  | X  |          |
|     |    | 2. Determine capacities of test elements and conduct additional load tests, as re- quired.  | X  |          |
|     |    | 3. Inspect driving operations and maintain complete and accurate records foreach element.   | X  |          |
|     |    | 4. Verify placement locations and plumbness, confirm type and size of hammer, re- cord 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. | X  |          |
|     |    | 5. For steel elements, perform additional inspections per Section 1705.2  | see section<br>1705.2                              |          |
|     |    | 6. For concrete elements and concrete-filled elements, perform test and additional inspections in accordance with Section 1705.3  | see section<br>1705.3                              |          |
|     |    | 7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.  | In accordance<br>with<br>construction<br>documents |          |

**TABLE 7**  
**1705.8 Cast-In-Place Deep Foundations**

| Yes | No | MATERIAL / ACTIVITY  | Continuous            | Periodic |
|-----|----|--|-----------------------|----------|
|     |    | 1. Inspect drilling operations and maintain complete and accurate records for each.  | 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 erout volumes | X                     |          |
|     |    | 3. For concrete elements, perform tests and additional inspections in accordance with Section 1705.3   | see section<br>1705.3 |          |

**TABLE 8**  
**Section 1705.12 Special Inspection for Seismic Resistance**

| Yes | No | MATERIAL / ACTIVITY                               | Continuous            | Periodic |
|-----|----|---|-----------------------|----------|
|     |    | 1. Structural steel per AISC 341                  | see section 1705.12.1 |          |
|     |    | 2. Structural wood                                | see section 1705.12.2 |          |
|     |    | 3. Cold-formed steel light-frame construction     | see section 1705.12.3 |          |
|     |    | 4. Designated seismic systems                     | see section 1705.12.4 |          |
|     |    | 5. Architectural components                       | see section 1705.12.5 |          |
|     |    | 6. Plumbing, mechanical and electrical components | see section 1705.12.6 |          |
|     |    | 7. Storage Racks                                  | see section 1705.12.7 |          |
|     |    | 8. Seismic Isolation Systems                      | see section 1705.12.8 |          |
|     |    | 9. Cold-formed steel special bolted moment frames | see section 1705.12.9 |          |

**TABLE 9**  
**1705.2.1 Structural Steel**

| Yes   | No | MATERIAL / ACTIVITY   | Continuous | Periodic |
|---|----|---|------------|----------|
| <b>INSPECTION OF WELDING (AISC360)</b>                  |    |   |            |          |
| <b>TABLE C-N5.4-1 INSPECTION TASKS PRIOR TO WELDING</b> |    |   |            |          |
|   |    | 1. Welding procedure specifications WPSs available              |            |          |
|   |    | 2. Manufacturer certification for welding consumables available |            |          |
|   |    | 3. Material Identification (type/grade)                         |            |          |
|   |    | 4. Welder identification system                                 |            |          |
|   |    | 5. Fit-up of groove welds (including joint geometry)            |            |          |
|   |    | a. Joint preparation  |            |          |



|  |  |   |  |  |
|--|--|---|--|--|
|  |  | b. Dimensions (alignment, root opening, root face, bevel) |  |  |
|  |  | c. Cleanliness (condition of steel surface)               |  |  |
|  |  | d. Tacking (tack weld quality and location)               |  |  |
|  |  | e. Backing type and fit (if applicable)                   |  |  |
|  |  | 6. Configuration and finish of access holes               |  |  |
|  |  | 7. Fit-up for fillet welds                                |  |  |
|  |  | a. Dimensions (alignment, gaps at root)                   |  |  |
|  |  | b. Cleanliness (condition of steel surfaces)              |  |  |
|  |  | c. Tacking (tack weld quality and location)               |  |  |
|  |  | 8. Check welding equipment                                |  |  |
| <b>TABLE C-N5.4-2 INSPECTION TASKS DURING WELDING (AISC 360)</b> |  |   |  |  |
|  |  | 1. Use of qualified welders                               |  |  |
|  |  | 2. Control and handling of welding consumables            |  |  |
|  |  | a. packaging  |  |  |
|  |  | b. exposure control                                       |  |  |
|  |  | 3. No welding over cracked tack welds                     |  |  |
|  |  | 4. Environmental conditions                               |  |  |
|  |  | a. Wind speed within limits                               |  |  |
|  |  | b. Precipitation and temperature                          |  |  |
|  |  | 5. WPS followed   |  |  |
|  |  | a. Setting on welding equipment                           |  |  |
|  |  | b. Travel speed   |  |  |
|  |  | c. Selected welding materials                             |  |  |
|  |  | d. Shielding gas type/flow rate                           |  |  |
|  |  | e. Preheat applied  |  |  |
|  |  | f. Inter pass temperature maintained (Min/Max)            |  |  |
|  |  | g. Proper position (F, V, H, OH)                          |  |  |
|  |  | 6. Welding techniques                                     |  |  |
|  |  | a. Interposes and final cleaning                          |  |  |
|  |  | b. Each pass within profile limitations                   |  |  |
|  |  | c. Each pass meets quality requirements                   |  |  |
| <b>TABLE C-N5.4-3 INSPECTION TASKS AFTER WELDING (AISC 360)</b>  |  |   |  |  |
|  |  | 1. Welds Cleaned  |  |  |
|  |  | 2. Size, length and location of welds                     |  |  |
|  |  | 3. Welds meet visual acceptance criteria                  |  |  |
|  |  | a. Crack prohibition                                      |  |  |
|  |  | b. Weld/base-metal fusion                                 |  |  |
|  |  | c. Crater cross section                                   |  |  |
|  |  | d. Weld profiles  |  |  |
|  |  | e. Weld size  |  |  |
|  |  | f. Undercut   |  |  |
|  |  | g. Porosity   |  |  |

