

**Project:**  
**Date Prepared:**

## Statement of Special Inspections - Structural

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Project:

Location:

Owner:

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This Statement of Special Inspections encompass the following discipline: **Structural**

This *Statement of Special Inspections* is submitted as a condition preceding construction in accordance with the Special Inspection and Structural Testing requirements of the Building Code. It includes a schedule of Special Inspection services applicable to this project. A list of the identity of approved agencies to be retained for conducting these inspections and tests should be submitted as soon as possible.

Discovered discrepancies shall be brought to the immediate attention of the Contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the Registered Design Professional in Responsible Charge. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted to the Building Official when requested and the Registered Design Professional in Responsible Charge.

A *Final Report of Special Inspections* documenting completion of all required Special Inspections, testing and correction of any discrepancies noted in the inspections shall be submitted to the Building Official prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

Interim Report Frequency:  Upon request of Building Official \_\_\_\_\_ or  per attached schedule.

Prepared by:

\_\_\_\_\_  
(type or print name of the Registered Design Professional in Responsible Charge)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**Design Professional Seal**

Owner's Authorization:

Building Code Official's Acceptance:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

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**Project:**  
**Date Prepared:**

## Statement of Special Inspections - Structural (Continued)

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### *List of Special Inspectors/Approved Agencies*

Project:

Location:

Owner:

This *Statement of Special Inspections* encompass the following discipline: **Structural**

(Note: *Statement of Special Inspections* for other disciplines may be included under a separate cover)

This Statement of Special Inspections includes the following building systems:

- Soils and Foundations
- Cast-in-Place Concrete
- Precast Concrete System
- Masonry Systems
- Structural Steel
- Wood Construction
- Special Cases

| Special Inspectors/Approved Agencies | Firm | Address, Telephone, e-mail |
|--------------------------------------|------|----------------------------|
| 1. Special Inspector (SI 1)          |      |                            |
| 2. Special Inspector (SI 2)          |      |                            |
| 3. Testing Agency (TA 1)             |      |                            |
| 4. Testing Agency (TA 2)             |      |                            |
| 5. Other (O1)                        |      |                            |
|                                      |      |                            |

Note: The special inspectors / approved agencies shall be employed by the Owner or the Registered Design Professional in Responsible Charge acting as the Owner's agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official, prior to commencing work.

**Project:**  
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**Statement of Special Inspections - Structural  
SOILS & FOUNDATION CONSTRUCTION**

| VERIFICATION AND INSPECTION  | Y/N | EXTENT:<br>CONTINUOUS;<br>PERIODIC;<br>SUBMITTAL | COMMENTS   | AGENT | AGENT<br>QUALIFICATION | TASK<br>COMPLETED |
|--|-----|--|------------|-------|------------------------|-------------------|
| <p>2015 IBC Section 1705.6, 1705.7, 1705.8, 1705.9</p> <p><b>Continuous special inspection:</b> Special inspection by the special inspector who is present when and where the work to be inspected is being performed.</p> <p><b>Periodic special inspection:</b> Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed.</p> |     |  |            |       |                        |                   |
| 1. Soils:  |     |  |            |       |                        |                   |
| a. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.   |     | P  | IBC 1705.6 | TA 1  | PE/GE, EIT or ETT      |                   |
| b. Verify excavations are extended to proper depth and have reached proper material.   |     | P  | IBC 1705.6 | TA 1  | PE/GE, EIT or ETT      |                   |
| c. Perform classification and testing of compacted fill materials.   |     | P  | IBC 1705.6 | TA 1  | PE/GE, EIT or ETT      |                   |
| d. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.   |     | C  | IBC 1705.6 | TA 1  | PE/GE, EIT or ETT      |                   |
| e. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.   |     | P  | IBC 1705.6 | TA 1  | PE/GE, EIT or ETT      |                   |
| 2. Driven Deep Foundation Elements:  |     |  |            |       |                        |                   |
| a. Verify element materials, sizes and lengths comply with the requirements.   |     | C  | IBC 1705.7 | TA 1  | PE/GE, EIT or ETT      |                   |
| b. Determine capacities of test elements and conduct additional load tests, as required.   |     | C  | IBC 1705.7 | TA 1  | PE/GE, EIT or ETT      |                   |
| c. Inspect driving operations and maintain complete and accurate records for each element.   |     | C  | IBC 1705.7 | TA 1  | PE/GE, EIT or ETT      |                   |
| d. 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.  |     | C  | IBC 1705.7 | TA 1  | PE/GE, EIT or ETT      |                   |
| e. For steel elements, perform additional special inspections in accordance with Section 1705.2.   |     | C or P   | IBC 1705.7 | TA 1  | PE/GE, EIT or ETT      |                   |
| f. For concrete elements and concrete-filled elements, perform additional special inspections in accordance with Section 1705.3.   |     | C or P   | IBC 1705.7 | TA 1  | PE/GE, EIT or ETT      |                   |
| g. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge.   |     | C or P   | IBC 1705.7 | TA 1  | PE/GE, EIT or ETT      |                   |
| 3. Cast-in-Place Deep Foundation Elements:   |     |  |            |       |                        |                   |
| a. Inspect drilling operations and maintain complete and accurate records for each element.  |     | C  | IBC 1705.8 | TA 1  | PE/GE, EIT or ETT      |                   |
| b. 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.  |     | C  | IBC 1705.8 | TA 1  | PE/GE, EIT or ETT      |                   |
| c. For concrete elements, perform additional special inspections in accordance with Section 1705.3.  |     | C or P   | IBC 1705.8 | TA 1  | PE/GE, EIT or ETT      |                   |
| 4. Helical Pile Foundation Elements:   |     |  |            |       |                        |                   |
| a. Record installation equipment used, pile dimensions, tip elevations, final depth, and final installation torque.  |     | C  | IBC 1705.9 | TA 1  | PE/GE, EIT or ETT      |                   |

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## Statement of Special Inspections - Structural CONCRETE CONSTRUCTION

| VERIFICATION AND INSPECTION   | Y/N | EXTENT:<br>CONTINUOUS;<br>PERIODIC;<br>SUBMITTAL | COMMENTS  | AGENT | AGENT<br>QUALIFICATION | TASK<br>COMPLETED |
|---|-----|--|---|-------|------------------------|-------------------|
| <p><b>2015 IBC Section 1705.3</b></p> <p><b>Continuous special inspection:</b> Special inspection by the special inspector who is present when and where the work to be inspected is being performed.</p> <p><b>Periodic special inspection:</b> Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed.</p> |     |  |   |       |                        |                   |
| 1. Inspect reinforcement, including pre-stressing tendons, and verify placement.  |     | P  | IBC 1908.4, ACI 318: Ch.20, 25.2,25.3,26.6.1-26.6.3             | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| 2. Reinforcing bar welding:   |     |  |   |       |                        |                   |
| a. Verify weldability of reinforcing bars other than ASTM A 706;  |     | P  | AWS D1.4, ACI 318: 26.6.4                                       | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| b. Inspect single-pass fillet welds, maximum 5/16"; and   |     | P  | AWS D1.4, ACI 318: 26.6.4                                       | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| c. Inspect all other welds.   |     | C  | AWS D1.4, ACI 318: 26.6.4                                       | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 3. Inspect anchors cast in concrete.  |     | P  | ACI 318: 17.8.2   | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| 4. Inspect anchors post-installed in hardened concrete members.   |     |  |   |       |                        |                   |
| a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads.  |     | C  | ACI 318: 17.8.2.4   | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| b. Mechanical anchors and adhesive anchors not defined in 4.a.  |     | P  | ACI 318: 17.8.2   | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| 5. Verify use of required design mix.   |     | P  | IBC 1904.1,1904.2,1908.2,1908.3<br>ACI 318: Ch.19,26.4.3,26.4.4 | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| 6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.   |     | C  | IBC 1908.10, ASTM C 172<br>ASTM C 31<br>ACI 318: 26.4,26.12     | TA 1  | ACI-CFTT or<br>ACI-STT |                   |
| 7. Inspect concrete and shotcrete placement for proper application techniques.  |     | C  | IBC 1908.6, 1908.7, 1908.8,<br>ACI 318: 26.5                    | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| 8. Verify maintenance of specified curing temperature and techniques.   |     | P  | IBC 1908.9, ACI 318:<br>26.5.3-26.5.5                           | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| 9. Inspect pre-stressed concrete for:   |     |  |   |       |                        |                   |
| a. Application of pre-stressing forces; and   |     | C  | ACI 318: 26.10  | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| b. Grouting of bonded pre-stressing tendons.  |     | C  | ACI 318: 26.10  | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| 10. Inspect erection of precast concrete members.   |     | P  | ACI 318: Ch.26.8  | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |
| 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.  |     | P  | ACI 318: 26.11.2  | TA 1  | ACI-CFTT or ACI-STT    |                   |
| 12. Inspect formwork for shape, location and dimensions of the concrete member being formed.  |     | P  | ACI 318: 26.11.1.2(b)   | SI 1  | PE/SE; EIT; ICC-RCSI   |                   |

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**Statement of Special Inspections - Structural**  
**MASONRY CONSTRUCTION – LEVEL B QUALITY ASSURANCE (RISK CATEGORY I, II, OR III)**

| VERIFICATION AND INSPECTION   | Y/N | EXTENT:<br>CONTINUOUS,<br>PERIODIC,<br>SUBMITTAL,<br>OR NONE | COMMENTS   | AGENT | AGENT<br>QUALIFICATION | TASK<br>COMPLETED |
|---|-----|--|--|-------|------------------------|-------------------|
| <p>2015 IBC Section 1705.4<br/> TMS 402-13/ACI 530-13/ASCE 5-13<br/> TMS 602-13/ACI 530.1-13/ASCE 6-13</p> <p><b>Continuous inspection:</b> The Inspection Agency’s full-time observation of work by being present in the area where the work is being performed.</p> <p><b>Periodic inspection:</b> The Inspection Agency’s part-time or intermittent observation of work during construction by being present in the area where the work has been or is being performed, and observation upon completion of the work.</p> |     |  |  |       |                        |                   |
| T1. Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site for self-consolidating grout   |     | P  | ACI530.1: 1.5B.1.b.3   | TA 1  | PE/SE or EIT; ICC-SMSI |                   |
| T2. Verification of f'm and f'ac prior to construction, except where specifically exempted by this Code   |     | P  | ACI530.1: 1.4B   | TA 1  | PE/SE or EIT; ICC-SMSI |                   |
| 1. Verify compliance with the approved submittals.  |     | P  | ACI530.1: 1.5  | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| 2. As masonry construction begins, verify that the following are in compliance:   |     |  |  |       |                        |                   |
| a. Proportions of site-prepared mortar.   |     | P  | ACI530.1: 2.1,2.6A   | TA 1  | PE/SE or EIT; ICC-SMSI |                   |
| b. Construction of mortar joints.   |     | P  | ACI530.1: 3.3B   | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| c. Grade and size of prestressing tendons and anchorages.   |     | P  | ACI530.1: 2.4B,2.4H  | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| d. Location of reinforcement, connectors, and prestressing tendons and anchorages   |     | P  | ACI530.1: 3.4,3.6A   | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| e. Prestressing technique.  |     | P  | ACI530.1: 3.6B   | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| f. Properties of thin-bed mortar for AAC masonry.   |     |  |  |       |                        |                   |
| 1) Required for the first 5000 square ft of AAC masonry.  |     | C  | ACI530.1: 2.1C   | TA 1  | PE/SE or EIT; ICC-SMSI |                   |
| 2) Required after the first 5000 square ft of AAC masonry.  |     | P  | ACI530.1: 2.1C   | TA 1  | PE/SE or EIT ICC-SMSI  |                   |
| 3. Prior to grouting, verify that the following are in compliance:  |     |  |  |       |                        |                   |
| a. Grout space.   |     | P  | ACI530.1: 3.2D,3.2F  | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| b. Grade, type, and size of reinforcement and anchor bolts, and pre-stressing tendons and anchorages.   |     | P  | ACI530: 6.1<br>ACI530.1: 2.4,3.4                               | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| c. Placement of reinforcement, connectors, and pre-stressing tendons and anchorages.  |     | P  | ACI530:<br>6.1,6.2.1,6.2.6,6.2.7<br>ACI530.1:<br>3.2E,3.4,3.6A | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| d. Proportions of site-prepared grout and prestressing grout for bonded tendons.  |     | P  | ACI530.1:<br>2.6B,2.4G.1.b                                     | TA 1  | PE/SE or EIT; ICC-SMSI |                   |
| e. Construction of mortar joints.   |     | P  | ACI530.1: 3.3B   | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| 4. Verify during construction:  |     |  |  |       |                        |                   |
| a. Size and location of structural elements.  |     | P  | ACI530.1: 3.3F   | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| b. Type, size, and location of anchors, including other details of anchorage of masonry to  |     | P  | ACI530: 1.2.1(e),<br>6.1.4.3,6.2.1                             | SI 1  | PE/SE or EIT; ICC-SMSI |                   |

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| VERIFICATION AND INSPECTION   | Y/N | EXTENT:<br>CONTINUOUS,<br>PERIODIC,<br>SUBMITTAL,<br>OR NONE | COMMENTS                                  | AGENT | AGENT<br>QUALIFICATION | TASK<br>COMPLETED |
|---|-----|--|---|-------|------------------------|-------------------|
| <p>2015 IBC Section 1705.4<br/> TMS 402-13/ACI 530-13/ASCE 5-13<br/> TMS 602-13/ACI 530.1-13/ASCE 6-13</p> <p><b>Continuous inspection:</b> The Inspection Agency’s full-time observation of work by being present in the area where the work is being performed.</p> <p><b>Periodic inspection:</b> The Inspection Agency’s part-time or intermittent observation of work during construction by being present in the area where the work has been or is being performed, and observation upon completion of the work.</p> |     |  |   |       |                        |                   |
| structural members, frames or other construction.   |     |  |   |       |                        |                   |
| c. Welding of reinforcement.  |     | C  | ACI530: 8.1.6.7.2, 9.3.3.4(c),11.3.3.4(b) | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| d. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).   |     | P  | ACI530.1: 1.8C, 1.8D                      | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| e. Application and measurement of prestressing force.   |     | C  | ACI530.1: 3.6B                            | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| f. Placement of grout and prestressing grout for bonded tendons is in compliance.   |     | C  | ACI530.1: 3.5,3.6C                        | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| g. Placement of AAC masonry units and construction of thin-bed mortar joints.   |     |  |   |       |                        |                   |
| 1) Required for the first 5000 square ft of AAC masonry.  |     | C  | ACI530.1: 3.3B,9,3.3F.1.b                 | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| 2) Required after the first 5000 square ft of AAC masonry.  |     | P  | ACI530.1: 3.3B,9,3.3F.1.b                 | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| 5. Observe preparation of grout specimens, mortar Specimens, and/or prisms.   |     | P  | ACI530.1: 1.4                             | TA 1  | PE/SE or EIT; ICC-SMSI |                   |

**Statement of Special Inspections - Structural**  
**MASONRY CONSTRUCTION – LEVEL C QUALITY ASSURANCE (RISK CATEGORY IV)**

| VERIFICATION AND INSPECTION   | Y/N | EXTENT:<br>CONTINUOUS,<br>PERIODIC,<br>SUBMITTAL,<br>OR NONE | COMMENTS                               | AGENT | AGENT<br>QUALIFICATION | TASK<br>COMPLETED |
|---|-----|--|--|-------|------------------------|-------------------|
| <p>2015 IBC Section 1705.4<br/> TMS 402-13/ACI 530-13/ASCE 5-13<br/> TMS 602-13/ACI 530.1-13/ASCE 6-13</p> <p><b>Continuous inspection:</b> The Inspection Agency’s full-time observation of work by being present in the area where the work is being performed.</p> <p><b>Periodic inspection:</b> The Inspection Agency’s part-time or intermittent observation of work during construction by being present in the area where the work has been or is being performed, and observation upon completion of the work.</p> |     |  |  |       |                        |                   |
| T1. Verification of f <sub>m</sub> and f <sub>aa</sub> c prior to construction and for every 5,000 square feet during construction  |     | P  | ACI530.1: 1.4B                         | TA 1  | PE/SE or EIT; ICC-SMSI |                   |
| T2. Verification of proportions of materials in premixed or preblended mortar, prestressing grout, and grout other than self-consolidating grout, as delivered to the project site  |     | P  | ACI530.1: 1.5B                         | TA 1  | PE/SE or EIT; ICC-SMSI |                   |
| T3. Verification of Slump flow and Visual Stability Index (VSI) as delivered to the project site for self-consolidating grout   |     | P  | ACI530.1: 1.5B.1.b.3                   | TA 1  | PE/SE or EIT; ICC-SMSI |                   |
| 1. Verify compliance with the approved submittals.  |     | P  | ACI530.1: 1.5                          | SI 1  | PE/SE or EIT; ICC-SMSI |                   |
| 2. Verify that the following are in compliance:   |     |  |  |       |                        |                   |
| a. Proportions of site-mixed mortar, grout and prestressing grout for bonded tendons.   |     | P  | ACI530.1: 2.1,2.6A, 2.6B,2.6C,2.4G.1.b | TA 1  | PE/SE or EIT; ICC-SMSI |                   |

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|   |  |   |  |      |                        |  |
|---|--|---|--|------|------------------------|--|
| b. Grade, type, and size of reinforcement and anchor bolts, and prestressing tendons and anchorages   |  | P | ACI530: 6.1;<br>ACI530.1: 2.4, 3.4                                 | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| c. Placement of masonry units and construction of mortar joints.  |  | P | ACI530.1: 3.3B   | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| d. Placement of reinforcement, connectors, and prestressing tendons and anchorages.   |  | C | ACI530:<br>6.1.6.2.1, 6.2.6, 6.2.7<br>ACI530.1: 3.2E, 3.4,<br>3.6A | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| e. Grout space prior to grouting.   |  | C | ACI530.1: 3.2D, 3.2F   | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| f. Placement of grout and prestressing grout for bonded tendons.  |  | C | ACI530.1: 3.5, 3.6C  | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| g. Size and location of structural elements.  |  | P | ACI530.1: 3.3F   | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| h. Type, size, and location of anchors including other details of anchorage of masonry to structural members, frames, or other construction.  |  | C | ACI530: 1.2.1(e),<br>6.1.4.3, 6.2.1                                | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| i. Welding of reinforcement.  |  | C | ACI530: 8.1.6.7.2,<br>9.3.3.4(c), 11.3.3.4(b)                      | SI 1 | AWS-CWI; ICC-SWSI      |  |
| j. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F). |  | P | ACI530.1: 1.8C, 1.8D   | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| k. Application and measurement of prestressing force.   |  | C | ACI530.1: 3.6B   | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| l. Placement of AAC masonry units and construction of thin-bed mortar joints.   |  | C | ACI530.1:<br>3.3B.9, 3.3F.1.b                                      | SI 1 | PE/SE or EIT; ICC-SMSI |  |
| m. Properties of thin-bed mortar for AAC masonry.   |  | C | ACI530.1: 2.1C.1   | TA 1 | PE/SE or EIT; ICC-SMSI |  |
| 3. Observe preparation of grout specimens, mortar specimens and/or prisms shall be observed.  |  | C | ACI 530.1: 1.4   | TA 1 | PE/SE or EIT; ICC-SMSI |  |

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**Statement of Special Inspections - Structural**  
**STRUCTURAL STEEL CONSTRUCTION**

| VERIFICATION AND INSPECTION   | Y/N | EXTENT:<br>OBSERVE,<br>PERFORM,<br>SUBMITTAL<br>OR NONE | COMMENTS   | AGENT | AGENT<br>QUALIFICATION | TASK<br>COMPLETED |
|---|-----|---|--|-------|------------------------|-------------------|
| <p align="center"><b>2015 IBC Section 1705.2.1</b><br/> <b>AISC 360-10</b></p> <p><b>Observe:</b> Observe these items on a random basis. Operations need not be delayed pending these inspections.</p> <p><b>Perform:</b> Perform these tasks for each welded joint or member.</p>  |     |   |  |       |                        |                   |
| <b>N5.4-1. Inspection Tasks Prior to Welding</b>  |     |   |  |       |                        |                   |
| 1. Welding procedure specifications (WPSs) available  |     | P   | AISC 360 Section A3.5, AWS D1.1, and applicable AWS A5 documents | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 2. Manufacturer certifications for welding consumables available  |     | P   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 3. Material identification (type/grade)   |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 4. Welder identification system   |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 5. Fit-up of groove welds (including joint geometry) <ul style="list-style-type: none"> <li>- Joint preparation</li> <li>- Dimensions (alignment, root opening, root face, bevel)</li> <li>- Cleanliness (condition of steel surfaces)</li> <li>- Tacking (tack weld quality and location)</li> <li>- Backing type and fit (if applicable)</li> </ul>                 |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 6. Configuration and finish of access holes   |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 7. Fit-up of fillet welds <ul style="list-style-type: none"> <li>- Dimensions (alignment, gaps at root)</li> <li>- Cleanliness (condition of steel surfaces)</li> <li>- Tacking (tack weld quality and location)</li> </ul>   |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| <b>N5.4-2. Inspection Tasks During Welding</b>  |     |   |  |       |                        |                   |
| 1. Use of qualified welders   |     | O   | AISC 360 Section A3.5, AWS D1.1, and applicable AWS A5 documents | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 2. Control and handling of welding consumables <ul style="list-style-type: none"> <li>- Packaging</li> <li>- Exposure control</li> </ul>  |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 3. No welding over cracked tack welds   |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 4. Environmental conditions <ul style="list-style-type: none"> <li>- Wind speed within limits</li> <li>- Precipitation and temperature</li> </ul>   |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 5. Welding Procedure specification (WPS) followed <ul style="list-style-type: none"> <li>- Settings on welding equipment</li> <li>- Travel speed</li> <li>- Selected welding materials</li> <li>- Shielding gas type/flow rate</li> <li>- Preheat applied</li> <li>- Interpass temperature maintained (min./max.)</li> <li>- Proper position (F, V, H, OH)</li> </ul> |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| 6. Welding techniques <ul style="list-style-type: none"> <li>- Interpass and final cleaning</li> <li>- Each pass within profile limitations</li> <li>- Each pass meets quality requirements</li> </ul>  |     | O   |  | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| <b>N5.4-3. Inspection Tasks After Welding</b>   |     |   |  |       |                        |                   |
| 1. Welds cleaned  |     | O   | AWS D1.1   | SI 1  | AWS-CWI; ICC-SWSI      |                   |



**Project:**

**Date Prepared:**

|  |  |   |   |      |                        |  |
|--|--|---|---|------|------------------------|--|
| 2. Size, length and location of welds  |  | P | AWS D1.1  | SI 1 | AWS-CWI; ICC-SWSI      |  |
| 3. Welds meet visual acceptance criteria<br>- Crack prohibition<br>- Weld/base-metal fusion<br>- Crater cross section<br>- Weld profiles<br>- Weld size<br>- Undercut<br>- Porosity  |  | P | AWS D1.1  | SI 1 | AWS-CWI; ICC-SWSI      |  |
| 4. Arc strikes   |  | P | AWS D1.1  | SI 1 | AWS-CWI; ICC-SWSI      |  |
| 5. k-area: when welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 inches of the weld  |  | P | AWS D1.1  | SI 1 | AWS-CWI; ICC-SWSI      |  |
| 6. Backing removed and weld tabs removed (if required)   |  | P | AWS D1.1  | SI 1 | AWS-CWI; ICC-SWSI      |  |
| 7. Repair activities   |  | P | AWS D1.1  | SI 1 | AWS-CWI; ICC-SWSI      |  |
| 8. Document acceptance or rejection of welded joint or member  |  | P | AWS D1.1  | SI 1 | AWS-CWI; ICC-SWSI      |  |
| 9. For structures in Risk Category III or IV, ultrasonic testing (UT) shall be performed on all CJP groove welds in butt, T-, and corner joints, in materials 5/16 inch thick or greater   |  | P | AWS D1.1  | SI 1 | (ASNT)SNT-TC-1A        |  |
| 10. For structures in Risk Category II, ultrasonic testing (UT) shall be performed on 10% of CJP groove welds in butt, T-, and corner joints, in materials 5/16 inch thick or greater  |  | O | AWS D1.1  | SI 1 | (ASNT)SNT-TC-1A        |  |
| 11. Thermally cut surfaces of access holes shall be tested using magnetic particle testing (MT) or penetrant testing (PT), when the flange thickness exceeds 2 inches for rolled shapes, or when the web thickness exceeds 2 inches for built-up shapes. |  | P | AWS D1.1  | SI 1 | (ASNT)SNT-TC-1A        |  |
| <b>N5.6-1. Inspection Tasks Prior to Bolting</b>   |  |   |   |      |                        |  |
| 1. Manufacturer's certifications available for fastener materials  |  | P | AISC 360, Section A3.3 and applicable ASTM material standards | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 2. Fasteners marked in accordance with ASTM requirements   |  | O |   | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 3. Proper fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane)  |  | O |   | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 4. Proper bolting procedure selected for joint detail  |  | O |   | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 5. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified meet applicable requirements   |  | O |   | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 6. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used  |  | O |   | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 7. Proper storage provided for bolts, nuts, washers and other fastener components  |  | O |   | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| <b>N5.6-2. Inspection Tasks During Bolting</b>   |  |   |   |      |                        |  |
| 1. Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required  |  | O | AISC 360, Section M2.5  | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 2. Joint brought to the snug-tight condition prior to the pretensioning operation  |  | O | AISC 360, Section M2.5  | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 3. Fastener component not turned by the wrench prevented from rotating   |  | O | AISC 360, Section M2.5  | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 4. Fasteners are Pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges  |  | O | AISC 360, Section M2.5  | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| <b>N5.6-3. Inspection Tasks After Bolting</b>  |  |   |   |      |                        |  |
| 1. Document acceptance or rejection of bolted connections  |  | P | AISC 360, Section M2.5  | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| <b>N5.7. Other Inspection Tasks</b>  |  |   |   |      |                        |  |

**Project:**  
**Date Prepared:**

|  |  |   |          |      |                        |  |
|--|--|---|----------|------|------------------------|--|
| 1. Inspect the steel to verify compliance with the details shown on the construction documents, such as braces, stiffeners, member locations and proper application of joint details at each connection  |  | P |          | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 2. Inspect the placement of anchor rods and other embedments supporting structural steel for compliance with the construction documents. The diameter, grade, type and length of the anchor rod or embedded item, and the extent or depth of embedment into the concrete, shall be verified prior to the placement of concrete |  | P |          | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| <b>N6.1. Inspection of Steel Elements of Composite Construction Prior to Concrete Placement</b>  |  |   |          |      |                        |  |
| 1. Placement and installation of steel deck  |  | P | AWS D1.3 | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 2. Placement and installation of steel headed stud anchors   |  | P | AWS D1.1 | SI 1 | AWS-CWI; ICC-SWSI      |  |
| 3. Document acceptance or rejection of steel elements  |  | P |          | SI 1 | PE/SE or EIT; ICC-SBSI |  |

**Statement of Special Inspections - Structural**  
**COLD-FORMED STEEL DECK CONSTRUCTION**

| VERIFICATION AND INSPECTION  | Y/N | EXTENT:<br>OBSERVE,<br>PERFORM,<br>SUBMITTAL,<br>OR NONE | COMMENTS              | AGENT | AGENT<br>QUALIFICATION | TASK<br>COMPLETED |
|--|-----|--|-----------------------|-------|------------------------|-------------------|
| <p align="center"><b>2015 IBC Section 1705.2.2<br/>SDI-QA/QC-2011</b></p> <p><b>Observe:</b> Inspect these items on an intermittent basis. Operations need not be delayed pending these inspections. Frequency of observations shall be adequate to confirm that the work has been performed in accordance with the applicable documents.</p> <p><b>Perform:</b> Perform these tasks prior to final acceptance for each item or element.</p> |     |  |                       |       |                        |                   |
| <b>1.1 Inspection or Execution Tasks Prior to Deck Placement</b>   |     |  |                       |       |                        |                   |
| A. Verify compliance of materials (deck and deck accessories) with construction documents, including profiles, material properties, and base metal thickness   |     | P  |                       | SI 1  | PE/SE or EIT; ICC-SBSI |                   |
| B. Document acceptance or rejection of deck and deck accessories   |     | P  |                       | SI 1  | PE/SE or EIT; ICC-SBSI |                   |
| <b>1.2. Inspection or Execution Tasks After Deck Placement</b>   |     |  |                       |       |                        |                   |
| A. Verify compliance of deck and all deck accessories installation with construction documents   |     | P  |                       | SI 1  | PE/SE or EIT; ICC-SBSI |                   |
| B. Verify deck materials are represented by the mill certifications that comply with the construction documents  |     | P  |                       | SI 1  | PE/SE or EIT; ICC-SBSI |                   |
| C. Document acceptance or rejection of installation of deck and deck accessories   |     | P  |                       | SI 1  | PE/SE or EIT; ICC-SBSI |                   |
| <b>1.3. Inspection or Execution Tasks Prior to Welding</b>   |     |  |                       |       |                        |                   |
| A. Welding procedure specifications (WPS) available  |     | O  | AWS D1.1,<br>AWS D1.3 | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| B. Manufacturer certifications for welding consumables available   |     | O  |                       | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| C. Material identification (type/grade)  |     | O  |                       | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| D. Check welding equipment   |     | O  |                       | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| <b>1.4. Inspection or Execution Tasks During Welding</b>   |     |  |                       |       |                        |                   |
| A. Use of qualified welders  |     | O  | AWS D1.1,<br>AWS D1.3 | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| B. Control and handling of welding consumables   |     | O  |                       | SI 1  | AWS-CWI; ICC-SWSI      |                   |
| C. Environmental conditions (wind speed, moisture, temperature)  |     | O  |                       | SI 1  | AWS-CWI; ICC-SWSI      |                   |

**Project:**  
**Date Prepared:**

|   |  |   |                    |      |                        |
|---|--|---|--------------------|------|------------------------|
| D. WPS followed   |  | O |                    | SI 1 | AWS-CWI; ICC-SWSI      |
| <b>1.5. Inspection or Execution Tasks After Welding</b>                               |  |   |                    |      |                        |
| A. Verify size and location of welds, including support, sidelap, and perimeter welds |  | P | AWS D1.1, AWS D1.3 | SI 1 | AWS-CWI; ICC-SWSI      |
| B. Welds meet visual acceptance criteria  |  | P |                    | SI 1 | AWS-CWI; ICC-SWSI      |
| C. Verify repair activities   |  | P |                    | SI 1 | AWS-CWI; ICC-SWSI      |
| D. Document acceptance or rejection of welds  |  | P |                    | SI 1 | AWS-CWI; ICC-SWSI      |
| <b>1.6. Inspection or Execution Tasks Prior to Mechanical Fastening</b>               |  |   |                    |      |                        |
| A. Manufacturer installation instructions available for mechanical fasteners          |  | O |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| B. Proper tools available for fastener installation                                   |  | O |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| C. Proper storage for mechanical fasteners  |  | O |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| <b>1.7. Inspection or Execution Tasks During Mechanical Fastening</b>                 |  |   |                    |      |                        |
| A. Fasteners are positioned as required   |  | O |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| B. Fasteners are installed in accordance with manufacturer's instructions             |  | O |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| <b>1.8. Inspection or Execution Tasks After Mechanical Fastening</b>                  |  |   |                    |      |                        |
| A. Check spacing, type, and installation of support fasteners                         |  | P |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| B. Check spacing, type, and installation of sidelap fasteners                         |  | P |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| C. Check spacing, type, and installation of perimeter fasteners                       |  | P |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| D. Verify repair activities   |  | P |                    | SI 1 | PE/SE or EIT; ICC-SBSI |
| E. Document acceptance or rejection of mechanical fasteners                           |  | P |                    | SI 1 | PE/SE or EIT; ICC-SBSI |

**Statement of Special Inspections - Structural**  
**OPEN-WEB STEEL JOISTS AND JOIST GIRDERS CONSTRUCTION**

| VERIFICATION AND INSPECTION   | Y/N | EXTENT:<br>CONTINUOUS,<br>PERIODIC,<br>SUBMITTAL,<br>OR NONE | COMMENTS                                | AGENT | AGENT<br>QUALIFICATION  | TASK<br>COMPLETED |
|---|-----|--|---|-------|---|-------------------|
| <p><b>2015 IBC Section 1705.2.3</b></p> <p><b>Continuous special inspection:</b> Special inspection by the special inspector who is present when and where the work to be inspected is being performed.</p> <p><b>Periodic special inspection:</b> Special inspection by the special inspector who is intermittently present where the work to be inspected has been or is being performed.</p> |     |  |   |       |   |                   |
| <b>1. Installation of open-web steel joists and joist girders:</b>  |     |  |   |       |   |                   |
| a. End connections – welded or bolted.  |     | P  | SJI specifications listed in IBC 2207.1 | SI 1  | PE/SE or EIT; ICC-SBSI (bolted connections)<br>AWS-CWI; ICC-SWSI (welded connections) |                   |
| b. Bridging – horizontal or diagonal.   |     |  |   |       |   |                   |

**Project:**  
**Date Prepared:**

|  |  |   |   |      |                        |  |
|--|--|---|---|------|------------------------|--|
| 1.) Standard bridging.   |  | P | SJI specifications listed in IBC 2207.1 | SI 1 | PE/SE or EIT; ICC-SBSI |  |
| 2.) Bridging that differs from the SJI specifications listed in IBC 2207.1 |  | P |   | SI 1 | PE/SE or EIT; ICC-SBSI |  |

**Statement of Special Inspections - Structural**  
**FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL**

| VERIFICATION AND INSPECTION<br><br>2015 IBC Section 1704.2.5  | Y/N | EXTENT:<br>CONTINUOUS,<br>PERIODIC,<br>SUBMITTAL,<br>OR NONE | COMMENTS   | AGENT | AGENT<br>QUALIFICATION  | TASK<br>COMPLETED |
|---|-----|--|--|-------|---|-------------------|
| 1. Fabrications Procedures: Review of fabricator’s written procedural and quality control manuals and periodic auditing of fabrication practices by an approved special inspection agency.<br>-OR-                          |     | S  | Fabricator shall submit one of the two qualifications (IBC 1704.2.5) | SI 1  | PE/SE or EIT; ICC-SBSI (bolted connections)<br>AWS-CWI; ICC-SWSI (welded connections) |                   |
| 2. AISC Certification<br>-OR-   |     | P or O   | or special inspections shall be performed (IBC 1705.2.1)             |       |   |                   |
| 3. Special inspection of the fabricated items, including welding, shall be required in accordance with IBC Section 1705.2.1   |     |  |  |       |   |                   |
| 4. At completion of fabrication, the approved fabricator shall submit a certificate of compliance to the building code official stating that the work was performed in accordance with the approved construction documents. |     | S  | IBC 1704.2.5.1   | SI 1  | PE/SE or EIT; ICC-SBSI  |                   |



**Project:**  
**Date Prepared:**

**Final Report of Special Inspections - Structural**

[Note that all Special Inspector's Final Reports must be received prior to issuance.]

Project:  
Location:  
Owner:  
Owner's Address:

Architect of Record: \_\_\_\_\_  
(name) (firm)

To the best of my information, knowledge and belief, the Special Inspections required for this project, and itemized in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

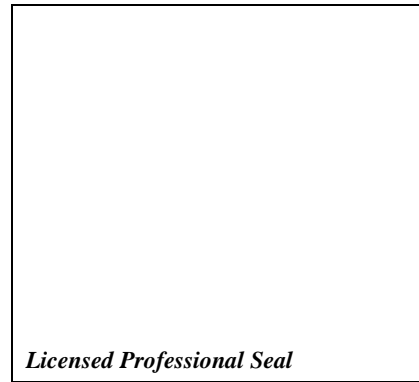
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,  
Registered Design Professional in Responsible Charge

\_\_\_\_\_  
(Type or print name)

\_\_\_\_\_  
(Firm Name)

\_\_\_\_\_  
Signature Date



**Project:**  
**Date Prepared:**

**Special Inspector's Final Report - Structural**

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Project:  
Special Inspector or  
Agent:

\_\_\_\_\_

(name)

\_\_\_\_\_

(firm)

Designation:

To the best of my information, knowledge and belief, the Special Inspections or testing required for this project, and designated for this Inspector/Agent in the *Statement of Special Inspections* submitted for permit, have been performed and all discovered discrepancies have been reported and resolved.

Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

Respectfully submitted,  
Special Inspector:

\_\_\_\_\_

(Type or print name)

\_\_\_\_\_

Signature

\_\_\_\_\_

Date

