

**ASSOCIATED BUILDING
INSPECTIONS, INC.**

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Pennsylvania Uniform Construction Code

Special Inspections and Observation Statement

ABI File # _____
Municipal Permit # _____
Date: _____

| | |
|--|------------|
| This statement must accompany permit applications for all construction for which special inspections and observations are required in Chapter 17 of the <i>International Building Code (IBC)</i> . | |
| Project Name: | |
| Project Address: | |
| Owner: | Telephone: |
| e-mail: | |

This is to certify that all the inspections and observations that I have checked on pages 2-3 **and** on page 4 of this statement are required for the project named above and will be performed by the designated individuals or firms. By signing this statement, I also acknowledge that:

- These inspections and observations must be performed by competent individuals in accordance with the requirements of the *IBC* Chapter 17 (as applicable) and that the construction work must comply with the department-approved plans and specifications and all applicable provisions of the Uniform Construction Code;
- Records of all required special inspections and testing observations (including any discrepancies and methods of correction of these discrepancies) will be retained and made available to department representatives, upon request; and,
- The Final Report section of this statement must be signed by me and a copy of this statement submitted to the department inspector at the time that the final inspection is performed and before a certificate of occupancy is issued.

Name of Design Professional in Responsible Charge

Signature of Design Professional in Responsible Charge

PA License Number

Date signed (Month/Day/Year)

| CHECK EACH THAT APPLIES | TYPE OF SPECIAL INSPECTION OR OBSERVATION | NAME AND ADDRESS OF INDIVIDUAL AND/OR FIRM PERFORMING INSPECTION OR OBSERVATION | CREDENTIALS Enter acronym from page 4. If "Other," please specify special training or basis for competency to perform work. |
|--------------------------|---|---|--|
| <input type="checkbox"/> | Inspection of Fabricators | | |
| <input type="checkbox"/> | Inspection of Steel Construction | | |
| <input type="checkbox"/> | Inspection of Concrete Construction | | |
| <input type="checkbox"/> | Inspection of Masonry Construction | | |
| <input type="checkbox"/> | Inspection of Wood Construction | | |
| <input type="checkbox"/> | Inspection of Soil Conditions | | |
| <input type="checkbox"/> | Inspection of Pile Foundations | | |

| CHECK EACH THAT APPLIES | TYPE OF SPECIAL INSPECTION OR OBSERVATION | NAME AND ADDRESS OF INDIVIDUAL AND/OR FIRM PERFORMING INSPECTION OR OBSERVATION | CREDENTIALS Enter acronym from page 4. If "Other," please specify special training or basis for competency to perform work. |
|--------------------------|--|---|--|
| <input type="checkbox"/> | Inspection of Pier Foundations | | |
| <input type="checkbox"/> | Inspection of Wood Panels and Veneers | | |
| <input type="checkbox"/> | Inspection of Sprayed Fire-Resistant Materials | | |
| <input type="checkbox"/> | Inspection of Smoke Control | | |
| <input type="checkbox"/> | Inspection of Exterior Insulation & Finish System (EIFS) | | |
| <input type="checkbox"/> | Structural Observations | | |
| <input type="checkbox"/> | Inspection of Mastic and Intumescent Fire-Resistant Coatings | | |

Final Report:

Note:

This page to be filled out and submitted to the building code official at the completion of the project before the Certificate of Use and Occupancy is issued.

Required Special Inspections or Observations:

- | | |
|--|---|
| <input type="checkbox"/> Inspection of Fabricators | <input type="checkbox"/> Inspection of Pile Foundations |
| <input type="checkbox"/> Inspection of Steel Construction | <input type="checkbox"/> Inspection of Pier Foundations |
| <input type="checkbox"/> Inspection of Concrete Construction | <input type="checkbox"/> Inspection of Wood Panels and Veneers |
| <input type="checkbox"/> Inspection of Masonry Construction | <input type="checkbox"/> Inspection of Sprayed Fire-Resistant Materials |
| <input type="checkbox"/> Inspection of Wood Construction | <input type="checkbox"/> Inspection of Smoke Controls |
| <input type="checkbox"/> Inspection of Soil Conditions | <input type="checkbox"/> Inspection of Exterior Insulation & Finish System (EIFS) |
| <input type="checkbox"/> Structural Observations | <input type="checkbox"/> Inspection of Mastic and Intumescent Fire-Resistant Coatings |

I certify that I have reviewed the report on each of the inspections or observations check above. These reports indicate that the covered work is in compliance with the department-approved plans and specifications and all applicable provisions of the Uniform Construction Code.



Signature of Design Professional in Responsible Charge

Date Signed (Month/Day/Year)

KEY for use in CREDENTIALS column (on pages 2 and 3)

| | |
|-------|---|
| ACI | American Concrete Institute Certified Concrete Field Testing Technician |
| AWS | American Welding Society Certified Welding Inspector |
| ASNT | American Society of Non-Destructive Testing |
| AWCI | Association of Wall and Ceiling Industries |
| MCA | Model code agency (ICC, BOCA, SBCCI, ICBO) special inspection certification |
| PA | Professional Architect (currently licensed) |
| PE | Professional Engineer (currently licensed) |
| OTHER | Specialized training coursework or other basis for competency deemed acceptable |

TABLE 1704.3
REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION

| CHECK IF APPLICABLE | VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | REFERENCED STANDARD |
|--------------------------|---|------------|----------|---|
| | 1. Material verification of high-strength bolts, nuts, and washers: | | | |
| <input type="checkbox"/> | a. Identification markings to conform to ASTM standards specified in the approved construction documents. | — | X | AISC 360 Section A3.3 and applicable ASTM material standards |
| <input type="checkbox"/> | b. Manufacturer's certificate of compliance required. | — | X | — |
| | 2. Inspection of high-strength bolting: | | | |
| <input type="checkbox"/> | a. Snug-tight joints. | | X | AISC 360 Section M2.5 |
| <input type="checkbox"/> | b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation. | — | X | |
| <input type="checkbox"/> | c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation. | X | — | |
| | 3. Material verification of structural steel and cold-formed steel deck. | | | |
| <input type="checkbox"/> | a. For structural steel, identification markings to conform to AISC 360. | — | X | AISC 360 Section M2.5 |
| <input type="checkbox"/> | b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents. | — | X | Applicable ASTM material standards |
| <input type="checkbox"/> | c. Manufacturer's certified test reports. | — | X | |
| | 4. Material verification of weld filler materials. | | | |
| <input type="checkbox"/> | a. Identification markings to conform to AWS specification in the approved construction documents. | — | X | AISC 360 Section A3.5 and applicable AWS A5 documents |
| <input type="checkbox"/> | b. Manufacturer's certificate of compliance required. | — | X | — |

| CHECK IF APPLICABLE | VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | REFERENCED STANDARD |
|--------------------------|--|------------|----------|---------------------------------------|
| | 5. Inspection of welding: | | | |
| | a. Structural steel and cold-formed steel deck: | | | |
| <input type="checkbox"/> | 1) Complete and partial joint penetration groove welds. | X | — | AWS D1.1 |
| <input type="checkbox"/> | 2) Multipass fillet welds. | X | — | |
| <input type="checkbox"/> | 3) Single-pass fillet welds > 5/16" | X | — | |
| <input type="checkbox"/> | 4) Plug and slot welds. | X | — | |
| <input type="checkbox"/> | 5) Single-pass fillet welds ≤ 5/16" | — | X | |
| <input type="checkbox"/> | 6) Floor and roof deck welds. | — | X | AWS D1.3 |
| | b. Reinforcing steel: | | | |
| <input type="checkbox"/> | 1) Verification of weldability of reinforcing steel other than ASTM A 706. | — | X | AWS D1.4 ACI 318: Section 3.5.2 |
| <input type="checkbox"/> | 2) Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement. | X | — | |
| <input type="checkbox"/> | 3) Shear reinforcement. | X | — | |
| <input type="checkbox"/> | 4) Other reinforcing steel. | — | X | |
| | 6. Inspection of steel frame joint details for compliance. | | | |
| <input type="checkbox"/> | a. Details such as bracing and stiffening. | — | X | — |
| <input type="checkbox"/> | b. Member locations. | — | X | |
| <input type="checkbox"/> | c. Application of joint details at each connection. | — | X | |

For SI: 1 inch – 25.4 mm.

a. Where applicable, see also Section 1707.1. Special inspection for seismic resistance.

TABLE 1704.4
REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION

| CHECK IF APPLICABLE | VERIFICATION AND INSPECTION | CONTINUOUS | PERIODIC | REFERENCED STANDARD | IBC REFERENCE |
|--------------------------|---|------------|----------|--|-----------------------------|
| <input type="checkbox"/> | 1. Inspection of reinforcing steel, including prestressing tendons, and placement. | — | X | ACI 318: 3.5, 7.1-7.7 | 1913.4 |
| <input type="checkbox"/> | 2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5b. | — | — | AWS D1.4 ACI 318: 3.5.2 | — |
| <input type="checkbox"/> | 3. Inspection of bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased or where strength design is used. | X | — | ACI 318: 8.1.3, 21.2.8 | 1911.5, 1912.1 |
| <input type="checkbox"/> | 4. Inspection of anchors installed in hardened concrete. | — | X | ACI 318: 3.8.6, 8.1.3, 21.2.8 | 1912.1 |
| <input type="checkbox"/> | 5. Verifying use of required design mix. | — | X | ACI 318: Ch. 4, 5.2-5.4 | 1904.2.2, 1913.2, 1913.3 |
| <input type="checkbox"/> | 6. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete. | X | — | ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8 | 1913.10 |
| <input type="checkbox"/> | 7. Inspection of concrete and shotcrete placement for proper application techniques. | X | — | ACI 318: 5.9, 5.10 | 1913.6, 1913.7, 1913.8 |
| <input type="checkbox"/> | 8. Inspection for maintenance of specified curing temperature and techniques | — | — | ACI 318: 5.11-5.13 | 1913.9 |
| <input type="checkbox"/> | 9. Inspection of prestressed concrete: a. Application of prestressing forces. b. Grouting of bonded prestressing tendons in the seismic-force-resisting system. | X | — | ACI 318: 18.20 ACI 318: 18.18.4 | — |
| <input type="checkbox"/> | 10. Erection of precast concrete members. | — | X | ACI 318: Ch. 16 | — |
| <input type="checkbox"/> | 11. Verification of in-situ concrete strength prior to stressing of tendons in posttensioned concrete and prior to removal of shores and forms from beams and structural slabs. | — | X | ACI 318: 6.2 | — |
| <input type="checkbox"/> | 12. Inspect formwork for shape, location and dimensions of the concrete member being formed. | — | X | ACI 318: 6.1.1 | — |

For SI: 1 inch = 25.4 mm

a. Where applicable, see also Section 1707.1, Special inspection for seismic resistance

TABLE 1704.5.1
LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

| CHECK IF APPLICABLE | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | | |
|--------------------------|--|-------------------------|----------|------------------------|-------------------------------------|---------------------------------------|
| | | CONTINUOUS | PERIODIC | IBC SECTION | TMS 402/ACI 530/ASCE 5 ^a | TMS 602/ACI 530.1/ASCE 6 ^a |
| <input type="checkbox"/> | 13. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified. | — | X | — | — | Art. 1.5 |
| <input type="checkbox"/> | 14. Verification of f'_m and f'_{AAC} prior to construction except where specifically exempted by this code. | — | X | — | — | Art 1.4B |
| <input type="checkbox"/> | 15. Verification of slump flow and VSI as delivered to the site for self-consolidating grout. | X | — | — | — | Art. 1.5B.1.b.3 |
| | 16. As masonry construction begins, the following shall be verified to ensure compliance. | | | | | |
| <input type="checkbox"/> | a. Proportions of site-prepared mortar. | — | X | — | — | Art. 2.6A |
| <input type="checkbox"/> | b. Construction of mortar joints | — | X | — | — | Art 3.3B |
| <input type="checkbox"/> | c. Location of reinforcement, connectors, prestressing tendons and anchorages. | — | X | — | — | Art. 3.4, 3.6A |
| <input type="checkbox"/> | d. Prestressing technique. | — | X | — | — | Art. 3.6B |
| <input type="checkbox"/> | e. Grade and size of prestressing tendons and anchorages. | — | X | — | — | Art. 2.4B, 2.4H |
| | 17. During construction the inspection program shall verify: | | | | | |
| <input type="checkbox"/> | a. Size and location of structural elements. | — | X | — | — | Art. 3.3F |
| <input type="checkbox"/> | b. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction. | — | X | — | Sec. 1.2.2(e), 1.16.1 | — |
| <input type="checkbox"/> | c. Specified size, grade, and type of reinforcement, anchor bolts, prestressing tendons, and anchorages. | — | X | — | Sec. 1.15 | — |
| <input type="checkbox"/> | d. Welding of reinforcing bars. | X | — | — | Sec. 2.1.9.7.2, 3.3.3.4(b) | — |

| CHECK IF APPLICABLE | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | | |
|--------------------------|---|-------------------------|---|--------------------------|-----------|-----------|
| | | | | | | |
| <input type="checkbox"/> | e. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F). | — | X | Sec. 2104.3, 2104.4 | — | |
| <input type="checkbox"/> | f. Application and measurement of prestressing force. | X | — | — | — | Art. 3.6B |
| | 18. Prior to grouting, the following shall be verified to ensure compliance: | | | | | |
| <input type="checkbox"/> | a. Grout space is clean. | — | X | — | — | Art. 3.2D |
| <input type="checkbox"/> | b. Placement of reinforcement and connectors, and prestressing tendons and anchorages. | — | X | — | Sec. 1.13 | Art. 3.4 |
| <input type="checkbox"/> | c. Proportions of site-prepared grout and prestressing grout for bonded tendons. | — | X | — | — | Art. 2.6B |
| <input type="checkbox"/> | d. Construction of mortar joints. | — | X | — | — | Art. 3.3B |
| | 19. Grout placement shall be verified to ensure compliance: | X | — | — | — | Art. 3.5 |
| <input type="checkbox"/> | a. Grouting of prestressing bonded tendons. | X | — | — | — | Art. 3.6C |
| <input type="checkbox"/> | 20. Preparation of any required grout specimens, mortar specimens and/or prisms shall be observed. | — | X | Sec. 2105.2.2, 2105.3 | — | Art. 1.4 |

For SI: °C = [(°F) – 32]/1.8.

a. The specific standards reference are those listed in Chapter 35.

TABLE 1704.5.3

LEVEL 2 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION

| CHECK IF APPLICABLE | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | | |
|--------------------------|---|-------------------------|----------|------------------------|-------------------------------------|---------------------------------------|
| | | CONTINUOUS | PERIODIC | IBC SECTION | TMS 402/ACI 530/ASCE 5 ^a | TMS 602/ACI 530.1/ASCE 6 ^a |
| <input type="checkbox"/> | 21. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified. | — | X | — | — | Art. 1.5 |
| <input type="checkbox"/> | 22. Verification of f'_m and f'_{AAC} prior to construction and for every 5,000 square feet during construction. | — | X | — | — | Art 1.4B |
| <input type="checkbox"/> | 23. Verification of proportions of materials in premixed or preblended mortar and grout as delivered to the site. | — | X | — | — | Art. 1.5B |
| <input type="checkbox"/> | 24. Verification of slump flow and VSI as delivered to the site for self-consolidating grout. | X | — | — | — | Art. 1.5B.1.b.3 |
| | 25. The following shall be verified to ensure compliance: | | | | | |
| <input type="checkbox"/> | f. Proportions of site-prepared mortar, grout, and prestressing grout for bonded tendons. | — | X | — | — | Art. 2.6A |
| <input type="checkbox"/> | g. Placement of masonry units and construction of mortar joints. | — | X | — | — | Art 3.3B |
| <input type="checkbox"/> | h. Placement of reinforcement, connectors, and prestressing tendons and anchorages. | — | X | — | Sec. 1.15 | Art. 3.4, 3.6A |
| <input type="checkbox"/> | i. Grout space prior to grout. | X | — | — | — | Art. 3.2D |
| <input type="checkbox"/> | j. Placement of grout. | X | — | — | — | Art. 3.5 |
| <input type="checkbox"/> | k. Placement of prestressing grout. | X | — | — | — | Art. 3.6C |
| <input type="checkbox"/> | l. Size and location of structural elements. | — | X | — | — | Art. 3.3F |
| <input type="checkbox"/> | m. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction. | X | — | — | Sec. 1.2.2(e), 1.16.1 | — |
| <input type="checkbox"/> | n. Specified size, grade, and type of reinforcement, anchor bolts, prestressing tendons, and anchorages. | — | X | — | Sec. 1.15 | Art. 2.4, 3.4 |

| CHECK IF APPLICABLE | VERIFICATION AND INSPECTION | FREQUENCY OF INSPECTION | | REFERENCE FOR CRITERIA | | |
|--------------------------|---|-------------------------|---|-------------------------|-------------------------------|-----------------|
| <input type="checkbox"/> | o. Welding of reinforcing bars. | X | — | — | Sec. 2.1.9.7.2, 3.3.3.4(b) | — |
| <input type="checkbox"/> | p. Preparation, construction, and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature below 90°F). | — | X | Sec. 2104.3, 2104.4 | — | Art. 18.C, 1.8D |
| <input type="checkbox"/> | q. Application and measurement of prestressing force. | X | — | — | — | Art. 3.6B |
| <input type="checkbox"/> | 26. Preparation of any required grout specimens and/or prisms shall be observed. | X | — | Sec. 105.2.2, 2105.3 | — | Art. 1.4 |

For SI: °C = [(°F) – 32]/1.8, 1 square foot = 0.0929 m².

a. The specific standards referenced are those listed in Chapter 35.

TABLE 1704.7
REQUIRED VERIFICATION AND INSPECTION OF SOILS

| CHECK IF APPLICABLE | VERIFICATION AND INSPECTION TASK | CONTINUOUS DURING TASK LISTED | PERIODICALLY DURING TASK LISTED |
|----------------------------|--|--------------------------------------|--|
| <input type="checkbox"/> | 1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity. | — | X |
| <input type="checkbox"/> | 2. Verify excavations are extended to proper depth and have reached proper material. | — | X |
| <input type="checkbox"/> | 3. Perform classification and testing of compacted fill materials. | — | X |
| <input type="checkbox"/> | 4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill. | X | — |
| <input type="checkbox"/> | 5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly. | — | X |