

**STATEMENT OF SPECIAL  
CONSTRUCTION MONITORING**

**PROJECT: ALLAGASH BREWERY – RETAINING WALL AND TANK SLAB  
50 Industrial Way, Portland Maine**

**PERMIT APPLICANT: Allagash Brewing Company  
APPLICANT'S ADDRESS: 50 Industrial Way, Portland, ME 04103**

**STRUCTURAL ENGINEER OF RECORD: Associated Design Partners, Inc**

**CONTRACTOR: Landry and French**

This Statement of Special Construction Monitoring is submitted as a condition for building permit issuance in accordance with Section 1704.0 of the 2009 International Building Code. It includes the Schedule of Special Construction Monitoring and Testing as applicable to this project. Also included is a listing of agents and other approved agencies to be retained for conducting the monitoring and testing applicable to this project.

The Special Construction Monitoring Coordinator shall keep records of all observations listed herein, and shall furnish field reports to the Registered Design Professional of Record. All discrepancies shall be brought to the immediate attention of the Contractor for correction, and to the Registered Design Professional of Record. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Registered Design Professional of Record. Interim reports shall be submitted to the Registered Design Professional of Record monthly, unless more frequent submissions are requested.

The Special Inspection program does not relieve the Contractor of his or her responsibilities. Job site safety is solely the responsibility of the Contractor. Materials and activities covered under the monitoring schedule are not to include the Contractor's equipment and methods used to erect or install the materials listed.

Prepared by:

Aaron S. Wilson, P.E.

\_\_\_\_\_  
(type or print name)



Signature

9/11/15

Date



Owner's Authorization:

Building Official's Acceptance:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

## SPECIAL CONSTRUCTION MONITORING AGENTS

This Statement of Special Construction Monitoring / Quality Assurance Plan includes the following building systems:

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Soils and Foundations<br><input checked="" type="checkbox"/> Cast-in-Place Concrete<br><input type="checkbox"/> Precast Concrete<br><input type="checkbox"/> Masonry<br><input type="checkbox"/> Structural Steel<br><input type="checkbox"/> Cold-Formed Steel Framing | <input type="checkbox"/> Spray Fire Resistant Material<br><input type="checkbox"/> Wood Construction<br><input type="checkbox"/> Exterior Insulation and Finish System<br><input type="checkbox"/> Mechanical & Electrical Systems<br><input type="checkbox"/> Architectural Systems<br><input checked="" type="checkbox"/> Special Cases |
|---|---|

| AGENT  | FIRM                              | CONTACT INFORMATION  |
|--|-----------------------------------|--|
| 1. Engineer of Record                          | <b>Associated Design Partners</b> | <b>80 Leighton Rd<br/>Falmouth ME 04105<br/>Ph: 878-1751</b>           |
| 2. Special Construction Monitoring Coordinator | <b>Associated Design Partners</b> | <b>80 Leighton Rd<br/>Falmouth ME 04105<br/>Ph: 878-1751</b>           |
| 3. Field Monitor                               | <b>S.W. Cole</b>                  | <b>286 Portland Road<br/>Gray, ME 04039-9586<br/>P: (207) 657.2866</b> |
| 4. Testing Agency                              | <b>S.W. Cole</b>                  | <b>286 Portland Road<br/>Gray, ME 04039-9586<br/>P: (207) 657.2866</b> |
| 5. Other                                       |                                   |  |

Note: The construction monitoring agent and testing agency shall be engaged by the Owner or 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.

## QUALITY ASSURANCE FOR LATERAL SYSTEMS

### Quality Assurance for Seismic Requirements

Seismic Design Category *B*  
Quality Assurance Plan Required (Y/N) *N*

If seismic design category C, and plan is not required, explain (see exceptions to 1705.1)

Description of seismic force resisting system and designated seismic systems:

*Ordinary Steel Moment Frames*

### Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust) *98MPH*  
Quality Assurance Plan Required (Y/N) *N*

Description of wind force resisting system and designated wind resisting components:

*Ordinary Steel Moment Frames*

### Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility in accordance with section 1705.3, and 1706.3 of the 2009 IBC code.

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided if requested.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test or inspection have a specific certification or license as indicated below, such designation shall appear below the *Agency Number* on the Schedule.

|       |   |
|-------|---|
| PE/SE | Structural Engineer – a licensed SE or PE specializing in the design of building structures           |
| PE/GE | Geotechnical Engineer – a licensed PE specializing in soil mechanics and foundations                  |
| EIT   | Engineer-In-Training – a graduate engineer who has passed the Fundamentals of Engineering examination |

### **American Concrete Institute (ACI) Certification**

|          |   |
|----------|---|
| ACI-CFTT | Concrete Field Testing Technician – Grade 1 |
| ACI-CCI  | Concrete Construction Inspector             |
| ACI-LTT  | Laboratory Testing Technician – Grade 1&2   |
| ACI-STT  | Strength Testing Technician                 |

### **American Welding Society (AWS) Certification**

|              |                                      |
|--------------|--------------------------------------|
| AWS-CWI      | Certified Welding Inspector          |
| AWS/AISC-SSI | Certified Structural Steel Inspector |

### **American Society of Non-Destructive Testing (ASNT) Certification**

|      |   |
|------|---|
| ASNT | Non-Destructive Testing Technician – Level II or III. |
|------|---|

### **International Code Council (ICC) Certification**

|          |  |
|----------|--|
| ICC-SMSI | Structural Masonry Special Inspector           |
| ICC-SWSI | Structural Steel and Welding Special Inspector |
| ICC-SFSI | Spray-Applied Fireproofing Special Inspector   |
| ICC-PCSI | Prestressed Concrete Special Inspector         |
| ICC-RCSI | Reinforced Concrete Special Inspector          |

### **National Institute for Certification in Engineering Technologies (NICET)**

|           |  |
|-----------|--|
| NICET-CT  | Concrete Technician – Levels I, II, III & IV                 |
| NICET-ST  | Soils Technician - Levels I, II, III & IV                    |
| NICET-GET | Geotechnical Engineering Technician - Levels I, II, III & IV |

### **Exterior Design Institute (EDI) Certification**

|          |                            |
|----------|----------------------------|
| EDI-EIFS | EIFS Third Party Inspector |
|----------|----------------------------|

**TABLE 1 – SCHEDULE OF SPECIAL CONSTRUCTION MONITORING**

| MATERIAL / ACTIVITY   |   | EXTENT of MONITORING<br>(Continuous, Periodic, Other, Exempt, None) | COMMENTS | AGENT # | DATE COMPLETED | REV # |
|---|---|---|----------|---------|----------------|-------|
| <b>1704.3 STEEL CONSTRUCTION</b>  |   |   |          |         |                |       |
| 1. Material Verification of high strength bolts, nuts, and washers.                             | a. Identification markings to conform to ASTM standards specified in the approved construction documents. | None  |          |         |                |       |
|   | b. Manufacturers Certificate of Compliance required.  | None  |          |         |                |       |
| 2. Inspection of High – Strength Bolting  | a. Bearing type connections   | None  |          |         |                |       |
|   | b. Slip – critical connections  | None  |          |         |                |       |
| 3. Material Verification of structural steel  | a. Identification marking to conform to ASTM standards specified in the contract documents.               | None  |          |         |                |       |
|   | b. Manufacturers certified mill test Reports.   | None  |          |         |                |       |
| 4. Material Verification of weld filler materials:  | a. Identification marking to conform to ASTM standards specified in the contract documents.               | None  |          |         |                |       |
|   | b. Manufacturers Certificate of Compliance required.  | None  |          |         |                |       |
| 5. Inspection of Welding – Structural Steel   | a. Single Pass fillet welds < 5/16”   | None  |          |         |                |       |
|   | b. Floor and deck welds   | None  |          |         |                |       |
| 6. Inspection of Steel Frame Joint details for compliance with approved construction documents. | a. Bracing connections  | None  |          |         |                |       |
|   | b. Member locations   | None  |          |         |                |       |
|   | c. Application of joint details at each connection.   | None  |          |         |                |       |
|   |   |   |          |         |                |       |

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

| MATERIAL/ACTIVITY  | EXTENT of INSPECTION (Continuous, Periodic, Other, None) | COMMENTS | AGENT #                      | DATE COMPLETED | REV # |
|--|--|----------|------------------------------|----------------|-------|
| <b>1704.4 CONCRETE CONSTRUCTION</b>  |  |          |                              |                |       |
| 1. Inspection of reinforcing steel, including placement.   | Periodic   |          | 3                            |                |       |
| 2. Inspection of reinforcing steel couplers  | Periodic   |          | 3                            |                |       |
| 1. Inspect bolts embedded into concrete prior to and during placement of concrete where allowable loads have been increased. | Periodic   |          | 3                            |                |       |
| 2. Verify use of required concrete mix design(s)   | Periodic   |          | 3,1                          |                |       |
| 3. Sample fresh concrete for strength tests, perform slump and air content tests, and determine temperature of concrete.     | Periodic   |          | 3                            |                |       |
| 6. Inspection of concrete placement for proper techniques.   | Periodic   |          | 3                            |                |       |
| 7. Inspection for maintenance of specified curing temperature and techniques.  | Periodic   |          | 3                            |                |       |
| <b>1704.5 MASONRY CONSTRUCTION -<br/>Level 1 Special Inspection for non-essential facility – 1704.5.2</b>                    |  |          |                              |                |       |
| 1. As Masonry Construction begins, the following shall be verified to ensure conformance                                     | a. Proportions of site-prepared mortar                   | None     |                              |                |       |
|  | b. Construction of mortar joints                         | None     |                              |                |       |
|  | c. Location of reinforcement                             | None     |                              |                |       |
|  | d. Pre-stressing technique                               | None     | No pre-stressing in building |                |       |
|  | e. Grade and size of pre-stressing tendons.              | None     | No pre-stressing in building |                |       |
| 2. The Inspection program shall verify the following:  | a. Size and location of structural elements.             | None     |                              |                |       |
|  | b. Type, size, and location of embedded anchors.         | None     |                              |                |       |
|  | c. Size, grade, and type of reinforcing                  | None     |                              |                |       |
| <b>1704.5 MASONRY CONSTRUCTION -<br/>Level 1 Special Inspection for non-essential facility – 1704.5.2</b>                    |  |          |                              |                |       |

**TABLE 1 – STATEMENT OF SPECIAL INSPECTIONS, cont.**

| MATERIAL/ACTIVITY  |  | EXTENT of INSPECTION (Continuous, Periodic, Other, None)             | COMMENTS | AGENT #                      | DATE COMPLETED | REV # |
|--|--|--|----------|------------------------------|----------------|-------|
| 2. The Inspection program shall verify the following, cont:  |  | d. welding of reinforcing bars                                       | None     |                              |                |       |
|  |  | e. Protection of Masonry during cold weather (temp. below 40 deg F.) | None     |                              |                |       |
|  |  | f. Application and measurement of pre-stressing reinforcement        | None     | No pre-stressing in building |                |       |
| 3. Prior to grouting, the following shall be verified to ensure compliance.  |  | a. Grout space is clean  | None     |                              |                |       |
|  |  | b. Placement of reinforcement  | None     |                              |                |       |
|  |  | c. Proportions of site-prepared grout                                | None     |                              |                |       |
|  |  | d. Construction of mortar joints                                     | None     |                              |                |       |
| 4. Grout placement shall be verified to ensure compliance with code and construction document provisions.                      |  | None   |          |                              |                |       |
| 5. Preparation of any grout specimens, mortar specimens and/or prisms shall be observed  |  | None   |          |                              |                |       |
| 4. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified. |  | None   |          |                              |                |       |
| <b>1704.6 WOOD CONSTRUCTION</b>  |  |  |          |                              |                |       |
| 1. Horizontal Diaphragms and Vertical Shearwalls   | a. Inspect sheathing size, grade, and thickness for conformance with construction documents.   | None   |          |                              |                |       |
|  | b. Inspect sheathing fastener size and pattern for conformance with construction documents.  | None   |          |                              |                |       |
|  | c. Verify attachment to supporting elements is per contract documents.   | None   |          |                              |                |       |
| 2. Wood truss fabricator certification / quality control procedures  | Verify shop fabrication and quality control procedures for wood truss plant.   | None   |          |                              |                |       |
| 3. Material Grading  | Verify material grading for sawn lumber for compliance with construction documents. Verify manufactured lumber (LVL'S, PSL's) for conformance with construction documents. | None   |          |                              |                |       |

|  |   |            |  |   |  |  |
|--|---|------------|--|---|--|--|
| <b>1704.6WOOD CONSTRUCTION</b>                       |   |            |  |   |  |  |
| 4. Wood Connections                                  | Verify that connections are made as shown in the contract documents. For connections not specifically detailed, verify conformance with IBC 2003 Ch. 23                               | None       |  |   |  |  |
| 5. Framing   | Verify that framing is installed in accordance with construction documents.   | None       |  |   |  |  |
| 6. Pre-Fabricated Wood Trusses                       |   |            |  |   |  |  |
| <b>1704.7SOILS</b>                                   |   |            |  |   |  |  |
| 1. Site Preparation                                  | Inspect preparation of site for conformance with Geotechnical recommendations prior to placement of prepared fill.  | Periodic   |  | 3 |  |  |
| 2. Fill Placement                                    | During Fill Placement verify that material and lift thickness comply with approved Geotechnical report and retaining wall drawings.   | Periodic   |  | 3 |  |  |
| 3. In-Place Soil Density                             | Verify compliance of in-place compacted dry density with approved Geotechnical report.  | Continuous |  | 3 |  |  |
| <b>1704.7PILE FOUNDATIONS</b>                        | Record installation and testing of procedures of each pile. Submit reports to building official and EOR. Reports to include pile tip cutoff elevation relative to a common benchmark. | None       |  |   |  |  |
| <b>1704.10 ARCHITECTURAL WALL PANELS AND VENEERS</b> | Verify compliance of attachment of interior and exterior Architectural veneers to supporting structure for building in Seismic Design Category E or F.                                | None       |  |   |  |  |
| <b>1704.11 SPRAYED FIRE-RESISTANT MATERIAL</b>       | a. Verify conformance of the prepared surface with manufacturer's specifications prior to application of material.  |            |  |   |  |  |
|  | b. Verify that substrate's ambient temperature meet manufacturer's specifications.  |            |  |   |  |  |
|  | c. Verify that material thickness meets design specifications.  |            |  |   |  |  |
|  | d. Verify that the material density meets the design specifications. Test in accordance with ASTM E 605.  |            |  |   |  |  |



|  |  |          |   |   |  |  |
|--|--|----------|---|---|--|--|
|  | e. Verify that bond strength between material and substrate is greater than or equal to 150 psf. Test in accordance with ASTM E 736 and IBC 2003 1704.11.5.1 – 1704.11.5.2 |          |   |   |  |  |
|  |  |          |   |   |  |  |
| <b>1704.12 EXTERIOR AND INSULATION AND FINISH SYSTEMS (EIFS)</b> | Verify conformance of EIFS installation with manufacturers and design specifications.  |          | Not Required if applied over a water resistive barrier with a means of draining moisture to the outside.<br>Not required for EIFS installed over concrete or masonry walls. |   |  |  |
|  |  |          |   |   |  |  |
| <b>1704.13 SPECIAL CASES SEGMENTAL BLOCK RETAINING WALL</b>      |  |          |   |   |  |  |
| 1. Geogrid   | a. Verify that the geogrid type is per the drawings.   | Periodic |   | 3 |  |  |
|  | b. Verify that geogrid embedment and coursing location is per the drawings.  | Periodic |   | 3 |  |  |
|  | c. Verify that wall base pad and drainage pipe is constructed and installed per drawings.  | Periodic |   | 3 |  |  |
|  |  |          |   |   |  |  |