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

Reviewed for Code Compliance
Inspections Division
Approved with Conditions
Date: 10/03/14

# Structural Statement of Special Inspections

Project: New Yard
Location: 74 Commercial St Portland
Owner: New Yard LLC

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

This *Statement of Special Inspections* is submitted as a condition for permit issuance 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 as well as the name of the Structural Special Inspection Coordinator (SSIC) and the identity of other approved agencies to be retained for conducting these inspections and tests.

The Structural Special Inspection Coordinator shall keep records of all Structural inspections and shall furnish inspection reports to the Building Code Official (BCO) and the Structural Registered Design Professional in Responsible Charge (SRDP). 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 Structural 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 and the Structural Registered Design Professional in Responsible Charge at an interval determined by the SSIC and the BCO.

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 BCO 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:

Roger R. Gagnon P.E.
*John Q. Public, P.E.*
(type or print name of the Structural Registered Design Professional in Responsible Charge)

Roger R. Gagnon 9/10/14
Signature Date

STATE OF MAINE
ROGER R. GAGNON
No. 3409
LICENSED
PROFESSIONAL ENGINEER
Design Professional Seal

Owner's Authorization:

✓ Phineas Sprague 9/12/14
Signature Date

Building Code Official's Acceptance:

Signature Date

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# Structural Statement of Special Inspections (Continued)

## *List of Agents*

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 / Quality Assurance Plan includes the following building systems:

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

} Agents 2 & 3

☐ Special Cases

| Special Inspection Agencies | Firm | Address, Telephone, e-mail |
|---|---|---|
| 1. **STRUCTURAL Special Inspections Coordinator (SSIC)** Roger R. Gagnon PE | Gagnon Engineering Inc | Gorham Me 04038 198 Main St |
| 2. Special Inspector (SI 1) Roger R. Gagnon P.E | Gagnon Engineering Inc | 198 Main St Gorham Me 04038 |
| 3. Special Inspector (SI 2) Tim Boyce PE Roger Dimingo Staff | S W Cole Engineering inc | 286 Portland Rd Gray ME 04039 |
| 4. Testing Agency (TA 1) | Essex Structural Steel Co Inc | 607 Route 13 Cortland NY 13045 |
| 5. Testing Agency (TA 2) | SJB Inspection Services | 60 Miller St Cortland NY 13045 |
| 6. Other (O1) | | |

Note: The inspectors and testing agencies 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.

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**Date Prepared:**

# Structural Schedule of Special Inspections

## SOILS & FOUNDATION CONSTRUCTION

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| VERIFICATION AND INSPECTION<br><br>IBC Section 1704.7, 1704.8, 1704.9 | Y/N | EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE | COMMENTS | AGENT | AGENT QUALIFICATION | TASK COMPLETED |
|---|---|---|---|---|---|---|
| 1. Verify existing soil conditions, fill placement and load bearing requirements | | | | | | |
| a. Prior to placement of prepared fill, determine that the site has been prepared in accordance with the approved soils report. | Y | P | IBC 1704.7.1 | 2, 3 | PE/GE, EIT or ETT | |
| b. During placement and compaction of fill material, verify material being used and maximum lift thickness comply with the approved soils report. | | P | IBC 1704.7.2 | 3 | PE/GE, EIT or ETT | |
| c. Test in-place dry density of compacted fill complies with the approved soils report. | | p | IBC 1704.7.2 | 3 | PE/GE, EIT or ETT | |
| 2. Pile foundations: | | | | | | |
| a. Observe and record procedures for static load testing of piles. | | C | IBC 1704.8 | | PE/GE, EIT or ETT | |
| b. Observe and record procedures for dynamic load testing of piles. | | C | | | PE/GE, EIT or ETT | |
| c. Record installation of each pile and results of load test. Include cutoff and tip elevations of each pile relative to permanent reference. | | C | | | PE/GE, EIT or ETT | |
| d. Test welded splices of steel piles | | C | AWS D1.1 | | AWS-CWI | |
| 3. Pier foundations: Verify installation of pier foundations for buildings assigned to Seismic Design Category C, D, E or F. | | C | IBC 1704.9 | | PE/GE, EIT or ETT | |
| a. Verify pier diameter and length | | C | | | PE/GE, EIT or ETT | |
| b. Verify pier embedment (socket) into bedrock | | P | | | PE/GE, EIT or ETT | |
| c. Verify suitability of end bearing strata | | P | | | PE/GE, EIT or ETT | |

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# Structural Schedule of Special Inspections
## CONCRETE CONSTRUCTION

| VERIFICATION AND INSPECTION<br><br>IBC Section 1704.4 | Y/N | EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE | COMMENTS | AGENT | AGENT QUALIFICATION | TASK COMPLETED |
|---|---|---|---|---|---|---|
| 1. Inspection of reinforcing steel, including prestressing tendons, and placement | Y | P | ACI 318: 3.5, 7.1-7.7 | 2 | PE/SE or EIT | |
| 2. Inspection of reinforcing steel welding in accordance with Table 1704.3, Item 5B | | | Welding of Reinf Not Allowed | | AWS-CWI | |
| 3. Inspect bolts to be installed in concrete prior to and during placement of concrete where allowable loads have been increased | | C | IBC 1912.5 | 4 | PE/SE or EIT | |
| 4. Verifying use of required design mix | | P | ACI 318: Ch 4, 5.2-5.4 | 2 | PE/SE or EIT | |
| 5. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature | | C | ASTM C 172<br>ASTM C 31<br>ACI 318: 5.6, 5.8 | 3 | ACI-CFTT or ACI-STT | |
| 6. Inspection of concrete and shotcrete placement for proper application techniques | | C | ACI 318: 5.9, 5.10 | 2 3 | PE/SE or EIT | |
| 7. Inspection for maintenance of specified curing temperature and techniques | | P | ACI 318: 5.11-5.13 | | PE/SE or EIT | |
| 8. Inspection of Prestressed Concrete | | | | | | |
| a. Application of prestressing force. | | C | ACI 318: 18.20 | | PE/SE or EIT | |
| b. Grouting of bonded prestressing tendons in seismic force resisting system | | C | ACI 318: 18.18.4 | | PE/SE or EIT | |
| 9. Erection of precast concrete members | | P | ACI 318: Ch 16 | | PE/SE or EIT | |
| 10. Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms beans and structural slabs | | P | ACI 318: 6.2 | | ACI-STT | |

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# Structural Schedule of Special Inspections - STEEL CONSTRUCTION

| VERIFICATION AND INSPECTION<br>IBC Section 1704.3 | Y/N | EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE | COMMENTS | AGENT | AGENT QUALIFICATION | |
|---|---|---|---|---|---|---|
| 1. Material verification of high-strength bolts, nuts and washers: | | | | | | |
| a. Identification markings to conform to ASTM standards specified in the approved construction documents. | | S | Applicable ASTM material specifications; AISC 335, Section A3.4; AISC LRFD, Section A3.3 | 4 ESSEX | PE/SE or EIT | |
| b. Manufacturer's certificate of compliance required. | | S | | 4 ESSEX | PE/SE or EIT | |
| 2. Inspection of high-strength bolting | | | | | | |
| a. Bearing-type connections. | | P | AISC LRFD Section M2.5 IBC Sect 1704.3.3 | | AWS/AISC-SSI | |
| b. Slip-critical connections. | | C or P (method dependent) | | | AWS/AISC-SSI | |
| 3. Material verification of structural steel (IBC Sect 1708.4): | | | | 5 SJB | | |
| a. Identification markings to conform to ASTM standards specified in the approved construction documents. | | S | ASTM A 6 or ASTM A 568 IBC Sect 1708.4 | 4 ESSEX | PE/SE or EIT | |
| b. Manufacturers' certified mill test reports. | | S | ASTM A 6 or ASTM A 568 IBC Sect 1708.4 | 4 ESSEX | PE/SE or EIT | |
| 4. Material verification of weld filler materials: | | | | SJB 5 | | |
| a. Identification markings to conform to AWS specification in the approved construction documents. | | S | AISC, ASD, Section A3.6; AISC LRFD, Section A3.5 | | PE/SE or EIT | |
| b. Manufacturer's certificate of compliance required. | | S | | 4 ESSEX | PE/SE or EIT | |
| 5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project. | | S | AWS D1.1 | ESSEX 4 | PE/SE or EIT | |
| 6. Inspection of welding (IBC 1704.3.1):<br>a. Structural steel: | | | | SJB | | |
| 1) Complete and partial penetration groove welds. | | C | 5 AWS D1.1 | SJB | AWS-CWI | |
| 2) Multipass fillet welds. | | C | | SJB | AWS-CWI | |
| 3) Single-pass fillet welds> 5/16" | | C | | SJB | AWS-CWI | |
| 4) Single-pass fillet welds< 5/16" | | P | | SJB | AWS-CWI | |
| 5) Floor and deck welds. | | P | AWS D1.3 | | AWS-CWI | |
| b. Reinforcing steel (IBC Sect 1903.5.2): | | | | | | |
| 1) Verification of weldability of reinforcing steel other than ASTM A706. | | C | | | | |
| 2) Reinforcing steel-resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special reinforced concrete shear walls and shear reinforcement. | | C | AWS D1.4 ACI 318: 3.5.2 | | AWS-CWI | |
| 3) Shear reinforcement. | | C | | | AWS-CWI | |
| 4) Other reinforcing steel. | | P | | | AWS-CWI | |
| 7. Inspection of steel frame joint details for compliance (IBC Sect 1704.3.2) with approved construction documents: | | | | | | |
| a. Details such as bracing and stiffening. | | P | | | PE/SE or EIT | |
| b. Member locations. | | P | | | PE/SE or EIT | |
| c. Application of joint details at each connection. | | P | | | PE/SE or EIT | |

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# Structural Schedule of Special Inspection Services

## FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

| VERIFICATION AND INSPECTION<br><br>IBC Section 1704.2 | Y/N | EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE | COMMENTS | AGENT | AGENT QUALIFICATION | TASK 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. At the 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.<br>-OR-<br>2. AISC Certification | | S | Fabricator shall submit one of the two qualifications | 5<br>SJB | PE/SE or EIT | |
| 3. 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 1704.2.2 | 4<br>ESSEX | PE/SE or EIT | |

SJB Inspection Services
60 Miller Street
Cortland, NY 13045