

Project: New Building for Phoenix Property Management
Date Prepared: December 6, 2011

Structural Statement of Special Inspections

Project: *New Building for Phoenix Property Management*

Location: *Hutchins Drive, Portland, Maine*

Owner: *Phoenix Property Management*

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.

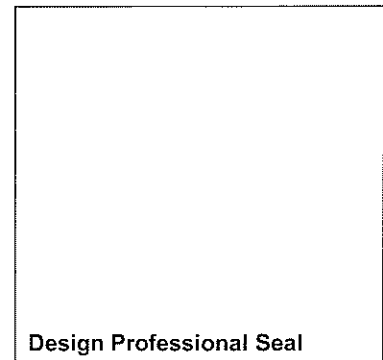
Interim Report Frequency: Upon request of Building Official _____ or per attached schedule.

Prepared by:

Theodore Greenlaw

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

Signature Date *December 6, 2011*



Owner's Authorization:

Building Code Official's Acceptance:

Signature Date

Signature Date

Structural Statement of Special Inspections (Continued)

List of Agents

Project: *New Building for Phoenix Property Management*
 Location: *Hutchins Drive, Portland, Maine*
 Owner: *Phoenix Property Management*
 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
- Special Cases

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. STRUCTURAL Special Inspections Coordinator (SSIC)	<i>M2 Structural Engineering, P.C.</i>	<i>23 Thornbury Way Windham, ME 04062 (207) 892-0983 matt@m2se.com</i>
2. Special Inspector (SI 1)	<i>M2 Structural Engineering, P.C.</i>	<i>23 Thornbury Way Windham, ME 04062 (207) 892-0983 matt@m2se.com</i>
3. Special Inspector (SI 2)	<i>S.W. Cole Engineering, Inc.</i>	<i>286 Portland Road Gray, ME 04039 (207) 657-2866</i>
4. Special Inspector (SI 3)	<i>Quality Assurance Labs</i>	<i>80 Pleasant Avenue South Portland, ME 04106 (207) 799-8911</i>
5. Testing Agency (TA 1)	<i>S.W. Cole Engineering, Inc.</i>	<i>286 Portland Road Gray, ME 04039 (207) 657-2866</i>
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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Structural Statement of Special Inspections (Continued)

Special Inspector's/Agent's Final Report

Project: *New Building for Phoenix Property Management*

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 or Agent:

(Type or print name)

Signature

Date

*Licensed Professional Seal or
Certification Number*

Structural Schedule of Special Inspections

Qualifications of Inspectors and Testing Technicians

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 to the Special Inspector for their records. *NOTE VERIFICATION THAT QUALIFIED INDIVIDUALS ARE AVAILABLE TO PERFORM STIPULATED TESTING AND/OR INSPECTION SHOULD BE PROVIDED PRIOR TO SUBMITTING STATEMENT. AGENT QUALIFICATIONS IN SCHEDULE ARE SUGGESTIONS ONLY; FINAL QUALIFICATIONS ARE SUBJECT TO THE DISCRETION OF THE REGISTERED DESIGN PROFESSIONAL PREPARING THE SCHEDULE.*

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge or Special Inspector of Record deems it appropriate that the individual performing a stipulated test or inspection have a specific certification, license or experience as indicated below, such requirement shall be listed below and shall be clearly identified within the schedule under the Agent Qualification Designation.

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

Experienced Testing Technician

ETT	Experienced Testing Technician – An Experienced Testing Technician with a minimum 5 years experience with the stipulated test or inspection
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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.
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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

Other

Structural Schedule of Special Inspections
SOILS & FOUNDATION CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
IBC Section 1704.7, 1704.8, 1704.9					
Verify existing soil conditions, fill placement and load bearing requirements					
1. Verify materials below shallow foundations are adequate to achieve design bearing capacity	Y	P	IBC 1704.7	SI2	PE/GE, EIT or ETT
2. Verify excavations are extended to proper depth and have reached proper material	Y	P	IBC 1704.7	SI2	PE/GE, EIT or ETT
3. Perform classification and testing of compacted fill materials	Y	P	IBC 1704.7	SI2	PE/GE, EIT or ETT
4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	Y	C	IBC 1704.7	SI2	PE/GE, EIT or ETT
5. Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly	Y	P	IBC 1704.7	SI2	PE/GE, EIT or ETT

Structural Schedule of Special Inspections
CONCRETE CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
IBC Section 1704.4					
1. Inspection of reinforcing steel, including prestressing tendons, and placement	Y	P	ACI 318: 3.5, 7.1-7.7	SI1 or SI2	PE/SE, EIT or ICC-RCSI
2. Inspection of reinforcing steel welding (Refer to Item 6B in Steel Construction Table below)	Y	P	AWS D1.4 ACI 318: 3.5.2	SI3	AWS-CWI
3. Inspect 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	Y	C	IBC 1911.5, 1912.1 ACI 318: 8.1.3, 21.2.8	SI1 or SI2	PE/SE, EIT or ICC-RCSI
4. Inspection of anchors installed in hardened concrete	Y	P	IBC 1912.1 ACI 318: 3.8.6, 8.1.3, 21.2.8	SI1 or SI2	PE/SE, EIT or ICC-RCSI
5. Verifying use of required design mix	Y	P	ACI 318: Ch 4, 5.2-5.4	SI1, SI2 or TA1	PE/SE, EIT or ICC-RCSI
6. At time fresh concrete is sampled to fabricate specimens for strength test, perform slump and air content test and temperature <i>In the absence of project specific specifications, the frequency of testing shall be per the schedule following this table</i>	Y	C	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8 IBC 1913.10	TA1	ACI-CFTT or ACI-STT
7. Inspection of concrete and shotcrete placement for proper application techniques	Y	C	ACI 318: 5.9, 5.10	SI1, SI2 or TA1	PE/SE, EIT or ICC-RCSI
8. Inspection for maintenance of specified curing temperature and techniques	Y	P	ACI 318: 5.11-5.13	SI1, SI2 or TA1	PE/SE, EIT or ICC-RCSI

Concrete Testing Frequency:

Concrete cylinders shall be taken, and fresh concrete tested at least once per placement or at the following intervals:

- | | |
|----------------------------------|----------------|
| 1. Retaining walls and footings: | 50 cubic yards |
| 2. Isolated Footings: | 25 cubic yards |
| 3. Slabs: | 50 cubic yards |

Structural Schedule of Special Inspections - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	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. b. Manufacturer's certificate of compliance required.	Y	S	AISC 360, Section A3.3 and applicable ASTM material Standards	SII	PE/SE or EIT
2. Inspection of high-strength bolting a. Snug-tight joints b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	Y	S		SII	PE/SE or EIT
3. Material verification of structural steel and cold-formed steel deck. a. For structural steel, identification markings to conform to AISC 360 b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents. b. Manufacturers' certified mill test reports.	Y	P	AISC 360, Section M2.5	SII	AWS/AISC-SSI
	Y	P	IBC 1704.3.3	SII	AWS/AISC-SSI
4. Material verification of weld filler materials: a. Identification markings to conform to AWS specification in the approved construction documents. b. Manufacturer's certificate of compliance required.	Y	C		SII	AWS/AISC-SSI
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AISC 360, Section M5.5	SII	PE/SE or EIT
6. Inspection of welding a. Structural steel and cold-formed steel deck. 1) Complete and partial penetration groove welds. 2) Multipass fillet welds. 3) Single-pass fillet welds > 5/16" 4) Single-pass fillet welds < 5/16"	Y	S	Applicable ASTM material standards ASTM A 6 or ASTM A 568 IBC Sect 1708.4	SII	PE/SE or EIT
	Y	S	AISC 360, Section A3.5 and applicable AWS A5 documents	SII	PE/SE or EIT
	Y	S	AWS D1.1	SII	PE/SE or EIT
	Y	C		SII	PE/SE or EIT
	Y	C	AWS D1.1 IBC 1704.3.1	SII	PE/SE or EIT
	Y	C		SII	PE/SE or EIT
	Y	P	AWS D1.1 IBC 1704.3.1	SII	PE/SE or EIT

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VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
5) Floor and roof deck welds	Y	P	AWS D1.3	S13	AWS-CWI
b. Reinforcing steel:					
1) Verification of weldability of reinforcing steel other than ASTM A706.	Y	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.	Y	C	AWS D1.4 ACT 318 3 5.2	S13	AWS-CWI
3) Shear reinforcement.	Y	C			AWS-CWI
4) Other reinforcing steel.	Y	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.	Y	P			PE/SE or EIT
b. Member locations.	Y	P	IBC 1704.3.2	S11	PE/SE or EIT
c. Application of joint details at each connection.	Y	P			PE/SE or EIT

Structural Schedule of Special Inspection Services
FABRICATION AND IMPLEMENTATION PROCEDURES – STRUCTURAL STEEL

VERIFICATION AND INSPECTION IBC Section 1704.2	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
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. -OR- 2. AISC Certification -OR- 3. International Accreditation Service's AC472 Certification for Metal Building Systems	Y	S	Fabricator shall submit one of the three qualifications	S11	PE/SE or EIT
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.	Y	S	IBC 1704.2.2	S11	PE/SE or EIT

Structural Schedule of Special Inspections
SEISMIC RESISTANCE - STRUCTURAL

VERIFICATION AND INSPECTION	Y/N	EXTENT: CONTINUOUS, PERIODIC, SUBMITTAL, OR NONE	COMMENTS	AGENT	AGENT QUALIFICATION
IBC Section 1707					
1. Special inspections for seismic resistance. Special inspection as specified in this section is required for the following:			Seismic Design Category: C		
a. The seismic-force-resisting systems in structures assigned to Seismic Design Category C, D, E or F	N	P	IBC 1707.1 – Exempted by Exception of Section 1705.3.1	N/A	PE/SE or EIT
2. Structural steel: Continuous special inspection for structural welding in accordance with AISC 341.	N	P	IBC 1707.2 – Exempted by Exception 1of Section 1707.2	N/A	AWS-CWI
3. Structural wood:					
a. Continuous special inspection during field gluing operations of elements of the seismic-force-resisting system.	N/A	C	IBC 1702.3		PE/SE or EIT
b. Periodic special inspections for nailing, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including drag struts, braces and hold-downs	N/A	P	IBC 1702.3		PE/SE or EIT
4. Cold-formed steel framing: Periodic special inspections during welding operations of elements of the seismic-force-resisting system. Periodic special inspections for screw attachment, bolting, anchoring and other fastening of components within the seismic-force-resisting system, including struts, braces, and hold-downs	N/A	N			
4. Seismic isolation system. Provide periodic special inspection during the fabrication and installation of isolator units and energy dissipation devices if used as part of the seismic isolation system	N/A	N	IBC 1707.8		

Contractor's Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated in the Quality Assurance Plan must submit a Statement of Responsibility. The Statement of Responsibility is required for Seismic Design Category C or higher. Make additional copies of this form as required.

Project:

Contractor's Name:

Address:

License No.:

Description of designated building systems and components included in the Statement of Responsibility:

Contractor's Acknowledgment of Special Requirements

I hereby acknowledge that I have received, read, and understand the Quality Assurance Plan and Special Inspection program.

I hereby acknowledge that control will be exercised to obtain conformance with the construction documents approved by the Building Official.

Signature

Date

Contractor's Provisions for Quality Control

Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of reports is attached to this Statement.

Identification and qualifications of the person(s) exercising such control and their position(s) in the organization are attached to this Statement.