

Project: Building Addition – Portland Sports Complex
Date Prepared: May 4th, 2012

Structural Statement of Special Inspections

Project: *Building Addition – Portland Sports Complex*

Location: *512 Warren Avenue, Portland, Maine*

Owner: *Portland Sports Complex – Jim Gratello*

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

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:

(Jim Eisenman - Structural Registered Design Professional in Responsible Charge)

Signature

Date

Design Professional Seal

Owner's Authorization:

Building Code Official's Acceptance:

Signature

Date

Signature

Date

Project: Building Addition – Portland Sports Complex
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Structural Statement of Special Inspections (Continued)

List of Agents

Project: *Building Addition – Portland Sports Complex*

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

(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)		
2. Special Inspector (SI 1)	<i>Ted Greenlaw, P.E.</i>	<i>183 Columbia Road Hanover, MA 02339 (781)- 826-8369</i>
3.		
4.		
5.		
6.		

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)

Final Report of Special Inspections (SSIC/SI 1)

[To be completed by the Structural Special Inspections Coordinator (SSIC/SI 1). Note that all Agents' Final Reports must be received prior to issuance.]

Project: *Building Addition – Portland Sports Complex*

Location: *512 Warren Avenue, Portland, Maine*

Owner: *Portland Sports Complex – Jim Gratello*

Owner's Address: *512 Warren Avenue, Portland, Maine*

Architect of Record: *N/A*

Structural Registered Design Professional in Responsible Charge: Jim Eisenman

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,
Structural Special Inspection Coordinator

(Type or print name)

(Firm Name)

Signature

Date



Licensed Professional Seal

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Structural Statement of Special Inspections (Continued)

Special Inspector's/Agent's Final Report

Project: *Building Addition – Portland Sports Complex*

Special Inspector or Agent:

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.

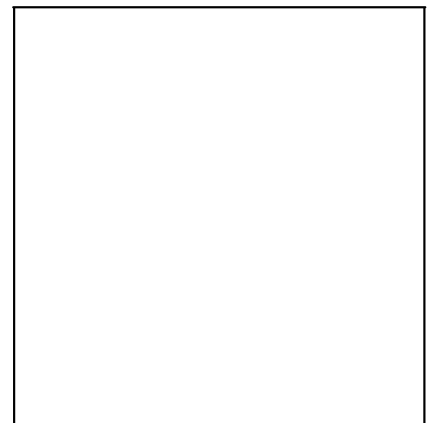
Interim reports submitted prior to this final report form a basis for and are to be considered an integral part of this final report.

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 - STEEL CONSTRUCTION

VERIFICATION AND INSPECTION	Y/N	EXTENT : CONTINUOUS,	COMMENTS	AGENT	AGENT QUALIFICATION
IBC Section 1704.3					
1. Material verification of high-strength bolts, nuts and washers:					
a. Identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	AISC 360, Section A3.3 and applicable ASTM material Standards	SII	PE/SE or EIT
b. Manufacturer's certificate of compliance required.	Y	S		SII	PE/SE or EIT
2. Inspection of high-strength bolting					
a. Snug-tight joints	Y	P	AISC 360, Section M2.5 IBC 1704.3.3	SII	AWS/AISC-SSI
b. Pretensioned and slip-critical joints using turn-of-nut with matchmarking, twist-off bolt or direct tension indicator methods of installation	Y	P			AWS/AISC-SSI
c. Pretensioned and slip-critical joints using turn-of-nut without matchmarking or calibrated wrench methods of installation	Y	C			AWS/AISC-SSI
3. Material verification of structural steel and cold-formed steel deck.					
a. For structural steel, identification markings to conform to AISC 360	Y	S	AISC 360, Section M5.5	SII	PE/SE or EIT
b. For other steel, identification markings to conform to ASTM standards specified in the approved construction documents.	Y	S	Applicable ASTM material standards	SII	PE/SE or EIT
b. Manufacturers' certified mill test reports.	Y	S	ASTM A 6 or ASTM A 568 IBC Sect 1708.4	SII	PE/SE or EIT
4. Material verification of weld filler materials:					
a. Identification markings to conform to AWS specification in the approved construction documents.	Y	S	AISC 360, Section A3.5 and applicable AWS A5 documents	SII	PE/SE or EIT
b. Manufacturer's certificate of compliance required.	Y	S		SII	PE/SE or EIT
5. Submit current AWS D1.1 welder certificate for all field welders who will be welding on this project.	Y	S	AWS D1.1	SII	PE/SE or EIT
6. Inspection of welding					
a. Structural steel and cold-formed steel deck:					
1) Complete and partial penetration groove welds.	NA	C	AWS D1.1 IBC 1704.3.1		AWS-CWI
2) Multipass fillet welds.	NA	C			AWS-CWI
3) Single-pass fillet welds > 5/16"	NA	C			AWS-CWI
4) Single-pass fillet welds < 5/16"	NA	P			AWS D1.1 IBC 1704.3.1

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VERIFICATION AND INSPECTION	Y/N	EXTENT : CONTINUOUS,	COMMENTS	AGENT	AGENT QUALIFICATION
IBC Section 1704.3					
5) Floor and roof deck welds.	NA	P	AWS D1.3		AWS-CWI
b. Reinforcing steel:					
1) Verification of weldability of reinforcing steel other than ASTM A706.	NA	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.	NA	C	AWS D1.4 ACI 318: 3.5.2		AWS-CWI
3) Shear reinforcement.	NA	C			AWS-CWI
4) Other reinforcing steel.	NA	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	IBC 1704.3.2	SII	PE/SE or EIT
b. Member locations.	Y	P			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	SII	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	SII	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 1 of 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.	NA	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	NA	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	NA	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	NA	N	IBC 1707.8		