SEARI SUGGESTED STATEMENT OF SPECIAL INSPECTIONS

Project:	New Project
Location:	New Project Location
Owner:	Owner
Owners' Address:	Owner Address
	City, Stae, Zip
Architect of Record:	Arch. Firm
Structural Engineer of Record:	Eng. Firm
Building Code:	Rhode Island State Building Code SBC-1 (IBC 2006 with Amendments)

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection requirements of the State of RI Building Code. It includes a Schedule of Special Inspection Services applicable to this project as well as the name of the Special Inspections Administrator and the identity of other approved agencies intended to be retained for conducting these inspections.

The Special Inspections Administrator shall keep records of all inspections and shall furnish inspection reports to the Building Official, Structural Engineer of Record and Architect of Record. 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, Structural Engineer of Record and Architect of Record. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

Interim reports shall be submitted on a MONTHLY basis to the Building Official, Owner, Structural Engineer of Record and Architect of Record.

A Final Report of Special Inspections documenting completion of all required Special Inspections and correction of any discrepancies noted in the inspections shall be submitted 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.

Prepared by:

NAME
(Type or Print Name)

Date

Signature Date

Owner's Authorization:

Signature Date

Building Official's Acceptance:

Signature Date

The following sheets comprise the required schedule of special inspections for this project. The construction divisions which require special inspections for this project are as follows:

- Soils and Foundations
- Cast-in-Place Concrete
- Precast Concrete
- Masonry
- Structural Steel
- Cold-Formed Metal Framing
- Wood Construction
- Spray Fire Resistant Material
- Exterior Insulation and Finish System
- Special Cases

Inspection Agents	Firm	Address
1. Special Inspections Administrator	To be hired by the owner	
2. Testing Laboratory and Field Inspector	To be hired by the owner	
3. Geotechnical Engineer	To be hired by the owner	
4. Other		

Note: The qualifications of all personnel performing Special Inspection activities are subject to the approval of the Building Official.

The Special Inspections Administrator and testing agent 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.

The credentials of all inspectors, administrators and testing technicians shall be provided if requested.

It is recommended that the person administering the Special Inspections program be a Professional Engineer experienced in the design of buildings.

	Key for Minimum Qualifications of Inspection Agents (where indicated on Schedules)
PE	Professional Engineer - a licensed PE specializing in the design of building structures
GE	Geotechnical Engineer - a licensed PE specializing in soil mechanics and foundations
EIT	Engineering in Training
ACI-CFTT	American Concrete Institute Certified Concrete Field Testing Technician - Grade 1
ACI-CCI	American Concrete Institute Certified Concrete Construction Inspector
ACI-LTT	American Concrete Institute Certified Laboratory Testing Technician - Grades 1 and 2
AWS-CWI	American Welding Society Certified Welding Inspector
AWS/AISC-SSI	American Welding Society/American Institute of Steel Construction Structural Steel Inspector
ICC-SFSI	International Code Council (ICC) Certified Spray-Applied Fireproofing Special Inspector
EDI-EIFS	Exterior Design Institute - EIFS Third Party inspector
ASNT	American Society of Non-Destructive Testing - Level II or III

1. Qualifications of Inspection Agents may be indicated on the Schedule in instances where the Structural Engineer of Record deems such requirements are appropriate.
2. Individual Inspector qualification requirements may be waived at the discretion of the Special Inspections Administrator if the inspections are performed under the supervision of a licensed PE.

Soils and Foundations

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Shallow Foundations	3 (PE/GE)	Inspect soils below footings for adequate bearing capacity and consistency with Geotechnical Report.	C
2. Controlled Structural Fill	3 (PE/GE)	Perform sieve tests (ASTM D422 and D1140) and modified Proctor tests (ASTM D1557) of each source of fill material. Inspect placement, lift thickness, and compaction of controlled fill. Test density of each lift of fill by nuclear methods (ASTM D2922).	P
3. Pile Foundations	3 (PE/GE)	Verify pile materials, sizes and lengths comply with the construction documents and Geotechnical Report. Determine capacites of test piles and conduct additional load test, as required. Observe driving operations and maintian complete and accurate records for each pile. Verify placement locations and plumbness, confirm type and size of hammer, record number of blows per foot of penetration, determine required penetrations to achieve design capacity, record tip and butt elevations, and document any pile damage.	C
4. Pier Foundations	3 (PE/GE)	Observe drilling operations and maintain complete and accurate records for each pier and/or footing. Verify placement locations and plumbness, confirm pier diameters, bell diameters (if applicable), lengths, embedments into bedrock (if applicable), and adequate end bearing strata capacity.	C
4. Other Reports	N/A	N/A	N/A

NOTES:
Inspection frequency:

P: Periodic inspections. Inspection frequency shall be determined by the Geotechnical Engineer. During ongoing soil & foundation operations, daily (minimum) inspections shall be performed.

C: Continuous

Cast-in-Place Concrete

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Mix Design	2 (ACI-CCI)	Review concrete batch tickets and verify compliance with approved mix design.	C
2. Material Certification	2 (ACI-CCI)	Review mill certificates for conformance with specifications requirements.	C
3. Reinforcement Installation	2 (ACI-CCI)	Inspect size, spacing, positioning, and grade of reinforcing steel. Verify that reinforcing bars are free from oil or other deleterious material.	P1 P1
4. Post-Tensioning Operations	N/A	N/A	
5. Welding of Reinforcement	2 (AWS-CWI)	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel. Inspect preheating of steel when required.	C
6. Anchor Rods	2 (ACI-CCI)	Inspect positioning and embedment of anchor rods.	C
7. Concrete placement	2 (ACI-CCI)	Inspect placement of concrete.	C
8. Sampling and Testing of Concrete	2 (ACI-CFTT) (ACI-LTT)	Test concrete compressive strength (ASTM C31 and C39), slump (ASTM C143), air content (ASTM C231 or C173) and temperature (ASTM C1064).	P2
9. Curing and Protection	2 (ACI-CCI)	Inspect curing, cold weather protection and hot weather protection procedures.	P3
10. Other Reports	N/A	N/A	N/A

NOTES:
Special inspections are not required for the following concrete elements:

1) Isolated spread concrete footings of buildings three stories or less in height that are fully supported on earth or rock.
2) Continuous concrete footings supporting walls of buildings three stories or less in height that are fully supported on earth or rock where the footings support walls of light frame construction
3) Nonstructural concrete slabs supported directly on the ground.
4) Concrete foundation walls constructed in accordance to IBC Table 1805.5(1,2,3, 4 or 5)
5) Concrete patios, driveways and sidewalks on grade.

Inspection frequency:
C: Continuous
P: Periodic Inspections:
All periodic inspections shall be performed in accordance with "Cast-In-Place Concrete" Specification of the project specifications. Additional requirements are as follows:

P1 - Inspect before concrete placement.
P2 - Per "Cast-In-Place Concrete" Specification
P3 - Daily when required by weather conditions. (see also ACI 305R, ACI 306R, ACI 306.1)

Precast Concrete

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Plant Certification and Quality Control Procedures	1, 2 (ACI-CCI)	Review plant quality control program.	P1
2. Mix Design	2 (ACI-CCI)	Review plant's mixes.	P1
3. Material Certification	1, 2 (ACI-CCI)	Review plant quality control program.	P1
4. Reinforcement Installation	2 (ACI-CCI)	Inspect for compliance with precast concrete shop drawings and contract documents during periodic plant visits.	P1
5. Prestress Operations	2 (ACI-CCI)	Application of prestressing forces. Grouting of bonded prestressing tendons in the seismic-force-resisting system.	P1
6. Connections/Embedded Items	2 (ACI-CCI)	Inspect for compliance with precast concrete shop drawings and contract documents during periodic plant visits.	C
7. Formwork Geometry	2 (ACI-CCI)	Inspect form sizes for accuracy with concrete shop drawings and contract documents.	P2
8. Concrete Placement	2 (ACI-CCI)	Inspect for compliance with precast concrete shop drawings and contract documents during periodic plant visits.	P1
9 Evaluation of Concrete Strength	1, 2 (ACI-CFTT)	Plant to submit testing reports based on quality control program.	P2
10. Curing and Protection	2 (ACI-CCI)	Review plant procedures.	P1
11. Erected Precast Elements	1 (AWS-CWI)	Provide ultrasonic testing of min. 25% of welds. Perform visual inspection of all welded plate	C
12. Other Reports	N/A	N/A	N/A

NOTES:

1) Special inspections of fabricator are not required if fabricator is approved per IBC section 1704.2.2.
2) Inspection frequency:

C: Continuous

P: Periodic Inspections:

All periodic inspections shall be performed in accordance with the "Structural Pre-Cast Concrete Hollow Core Planks" Specification and any Precast Specification of the project specifications. Additional requirements are as follows:

P1 - If all requirements are met, only one inspection is required.

P2 - While construction operations are ongoing, daily inspections shall be performed on all precast elements. This inspection frequency may be increased or decreased at the Special Inspections Administrator discretion for reasons such as construction schedule or quality of work observed.

Masonry

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Material Certification	1, 2 (EIT)	Review test reports and materials documentation for conformance to construction documents.	C
2. Mixing of Morar And Grout	2 (EIT)	Inspect proportioning, mixing, and retempering of mortar and grout.	C
3. Installation of Masonry	2 (EIT)	Inspect size, layout, bonding, and placement of masonry units.	C
4. Mortar Joints	2 (EIT)	Inspect construction of mortar joints including tooling and filling of head joints.	C
5. Reinforcement Installation	2 (AWS-CWI)	Inspect placement and lapping of all reinforcing steel. Inspect welding of reinforcing steel.	C
6. Grouting Operations	2 (EIT)	Inspect grouting of masonry. Inspect masonry cleanouts for high lift grouting.	C
7. Weather Protection	2 (EIT)	Inspect cold weather protection and hot weather protection procedures.	C
8. Evaluation of Masonry Strength	2 (EIT)	Test compressive strength of mortar and grout cube samples (ASTM C780). Test compressive strength of masonry prisms as required by construction documents (ASTM C1314).	C C
9. Anchors and Ties	2 (EIT)	Inspect size, location, and embedment of anchors and ties.	C
10. Continuous/Periodic Inspections	2 (EIT)	Provide continuous and/or periodic inspections during all operations per Table 1704.5.1 (Level 1) of the International Building Code (IBC)	C/P
11. Other Reports	N/A	N/A	N/A

NOTES:

1) Inspection frequency:

C: Continuous

P: Periodic Inspections:

All periodic inspections shall be performed in accordance with the "Concrete Masonry Unit" Specification and any masonry related specification of the project specifications. Additional requirements are as follows:

P1 - If all requirements are met, only one inspection is required.

P2 - While steel erection operations are ongoing, daily inspections shall be performed, unless noted otherwise. This inspection frequency may be increased or decreased at the Special Inspections Advisor's discretion for reasons such as steel erection schedule or quality of work observed.

Structural Steel

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Fabricator's Certification and Quality Control Procedures	1, 2 See Note 5	Review shop fabrication and quality control procedures (See Note 3).	P1
2. Material Certification	2 See Note 5	Review certified mill test reports and identification markings on wide-flange shapes, high strength bolts, nuts and welding electrodes.	P2
3. Open Web Steel Joists	1, 2 See Note 5	Review shop fabrication and quality control procedures (See Note 3).	P1
4. Bolting	2 See Note 5	Inspect installation and tightening of high strength bolts. Provide continuous inspection of bolts in slip-critical connections. Inspect per Section 9 of the RCSC "specification for Structural Joints using A325 or A490 bolts.	P2 C
5. Welding	2 (AWS/AISC-SSI)	Visually inspect all welds. Inspect pre-heat, post-heat, and surface preparation between passes. Field Fillet Welds: 100% visual, 15% Witness Shop Fillet Welds: 25% Visual, 5% Witness Full Penetration: 100% via UT Provide continuous inspection of all complete and partial penetration groove welds; all multipass fillet welds, and all single pass fillet welds > 5/16" (see Notes 1 and 2 for additional requirements)	C (as indicated)
6. Shear Connectors	2 (AWS/AISC-SSI)	Inspect size, number, positioning and welding of shear connectors. Ring test all shear connectors.	C
7. Structural Details	1,2 (EIT)	Inspect steel frame for compliance with structural drawings, including bracing, member configuration, and connection details.	P2
8. Metal Deck	2 (AWS-CWI)	Inspect welding and sidelap fastening of metal roof and floor decks for conformance to approved shop drawings and construction documents.	P2
9. Other Reports	1 (PE)	Continuous monitoring of tests and inspections to assure conformance to construction documents, notify SER of any discrepancies immediately.	C

See the following page for Structural Steel Notes

NOTES:

1) Review material identification and manufacturer certificates for conformance of weld filler material with AWS Standards and AISC Manual of Steel Construction, LRFD/ASD, 13th ed., Section A3.5.
2) Base metal exceeding 1.5 inches in thick and subject to through-thickness weld shrinkage shall be ultrasonically tested for discontinuities behind and adjacent to the welds after joint welding.
3) Special inspections of fabricator are not required if fabricator is approved per IBC section 1704.2.2.
4) Inspection frequency:

   C: Continuous

   P: Periodic Inspections:

   All periodic inspections shall be performed in accordance with the "Structural Steel" Specification of the project specifications. Additional requirements are as follows:

   P1 - If all requirements are met, only one inspection is required.

   P2 - While steel erection operations are ongoing, daily inspections shall be performed, unless noted otherwise. This inspection frequency may be increased or decreased at the Special Inspections Advisor's discretion for reasons such as steel erection schedule or quality of work observed.
5) Inspector shall have minimum of 5 years experience in the inspection of steel structures.

Cold-Formed Metal Framing

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Fabricator's Certification and Quality Control Procedures	1,2 (EIT)	Review fabricator's quality control procedures, review procedures for completeness and adequacy (See Note 1).	P1
2. Material Certification	1,2 (EIT)	Review for conformance to contract documents.	P2
3. Fabrication Inspection	2 (EIT)	Inspect in-plant fabrication or on-site fabrication (See Note 1)	P1
4. Installation	2 (EIT)	Verify that type, size, quantity, location, details, and connections of framing members conform to SER approved submittals, and the contract documents.	P2
5. Welding	2 (AWS-CWI)	Check welder's qualifications. Verify that welding conforms to AWS specifications, SER approved submittals, and the contract documents. Visually inspect welds.	C
6. Other Fasteners	2 (EIT)	Verify fastener type and installation procedures. Verify that fasteners conform to SER approved submittals and the contract documents. Verify that fasteners are installed tightly.	P2
7. Other Reports	N/A	N/A	N/A

NOTES:

1) Special inspections of fabricator are not required if fabricator is approved per IBC section 1704.2.2.
2) Inspection frequency:

C: Continuous

P: Periodic Inspections:

All periodic inspections shall be performed in accordance with the "Structural Steel" Specification and any cold-formed related specification of the project specifications. Additional requirements are as follows:

P1 - If all requirements are met, only one inspection is required.

P2 - While construction operations are ongoing, daily inspections shall be performed on roof truss and exterior wall framing. This inspection frequency may be increased or decreased at the Special Inspections Administrator discretion for reasons such as construction schedule or quality of work observed.

Wood Construction

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Fabricator's Certification and Quality Control Procedures	1, 2 (EIT)	Review fabricator's detailed fabrication and quality control program.	P1
2. Material Certification	1, 2 (EIT)	Review fabricator's quality control program.	P1
3. Wood Diaphragms	1, 2 (EIT)	Verify nominal framing members at adjoining panel edges Verify nail or staple diameter and length. Verify number of fastener lines and that the spacing between fasteners in each line and at edge margins agree with contract documents and specifications.	C
4. Installation	2 (EIT)	Verify that grade, thickness, type, size, quantity, location, details, and connections of framing members conform to SER approved submittals, and the contract documents.	P2
5. Other Fasteners	2 (EIT)	Verify fastener type and installation procedures. Verify that fasteners conform to SER approved submittals and the contract documents. Verify that fasteners are installed tightly.	P2
6. Other	N/A	N/A	N/A

NOTES:

1) Special inspections of fabricator are not required if fabricator is approved per IBC section 1704.2.2.
2) Inspection frequency:

C: Continuous

P: Periodic Inspections:

All periodic inspections shall be performed in accordance with "Rough Carpentry" Specification and any wood construction related specification of the project specifications. Additional requirements are as follows:

P1 - If all requirements are met, only one inspection is required.

P2 - While construction operations are ongoing, daily inspections shall be performed on roof truss and exterior wall framing. This inspection frequency may be increased or decreased at the Special Inspections Administrator discretion for reasons such as construction schedule or quality of work observed.

Spray-Applied Fire Resistant Material

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Material Specifications	2 (ICC-SFSI)	Review material for conformance with specifications requirements.	P
2. Laboratory Tested Fire Resistance Design	2 (ICC-SFSI)	Review UL fire resistive design for each rated beam, column, or assembly.	P
3. Schedule of Thickness	2 (ICC-SFSI)	Review approved thickness schedule.	P
4. Surface Preparation	2 (ICC-SFSI)	Inspect surface preparation of steel prior to application of fireproofing.	P
5. Application	2 (ICC-SFSI)	Inspect application of fireproofing.	P
6. Curing and Ambient Condition	2 (ICC-SFSI)	Verify ambient air temperature and ventilation is suitable for application and curing of fireproofing.	P
7. Thickness	2 (ICC-SFSI)	Test thickness of fireproofing (ASTM E605). Perform a set of thickness measurements for every 1000 SF of floor and roof assemblies and on not less than 25% of rated beams and columns.	P
8. Density	2 (ICC-SFSI)	Test the density of fireproofing material (ASTM E605).	P
9. Bond Strength	2 (ICC-SFSI)	Test the cohesive/adhesive bond strength of fireproofing ASTM E736). Perform not less than one test for each 10,000 SF.	P
10. Other	N/A	N/A	N/A

NOTES:

P: Periodic inspections shall be performed daily (minimum) during application operations, unless otherwise indicated.

Exterior Insulation & Finish System (EIFS)

Item	Agent No. (Qualif.)	Scope	Inspection Frequency
1. Material Submittals	1 (EDI-EIFS)	Verify conformance with Construction Documents	P
2. Condition of Substrate	1 (EDI-EIFS)	Verify conformance with Construction Documents	P
3. Application of Foam Plastic Board	1 (EDI-EIFS)	Verify conformance with Construction Documents	P
4. Application of Coatings	1 (EDI-EIFS)	Verify conformance with Construction Documents	P
5. Application of Mesh	1 (EDI-EIFS)	Verify conformance with Construction Documents	P
6. Ambient Condition and Curing	1 (EDI-EIFS)	Verify conformance with Construction Documents	P
7. Flashing and Joint Details	1 (EDI-EIFS)	Verify conformance with Construction Documents	P
8. Sealants/Caulks	1 (EDI-EIFS)	Verify conformance with Construction Documents	P
10. Other	N/A	N/A	N/A

NOTES:

P: Periodic inspections shall be performed daily (minimum) during application operations, unless otherwise indicated.