

STATEMENT OF SPECIAL INSPECTIONS

City of Salem, Virginia
COMMUNITY DEVELOPMENT
Building Inspection

DATE: _____

PROJECT TITLE: _____

PROJECT ADDRESS: _____

BUILDING PERMIT #: _____

REGISTERED DESIGN PROFESSIONAL: _____

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 Virginia Construction Code (VCC). It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection Coordinator and the identity of other approved agencies to be retained for conducting inspections and tests. This **Statement of Special Inspections** encompasses the following disciplines:

- Structural Mechanical/Electrical/Plumbing
 Architectural Other: _____

The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge. 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 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 Registered Design Professional in Responsible Charge.

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 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 General Contractor (GC).

Interim Report Frequency: _____

Prepared by: _____
(Type or print name and date)

Signature: _____
(Design Professional Stamp)

Owner Authorization: _____ Building Official: _____
(Print name and date) (Print name and date)

Owner Signature: _____ Building Official Signature: _____

STATEMENT OF SPECIAL INSPECTIONS

City of Salem, Virginia
COMMUNITY DEVELOPMENT
Building Inspection

Schedule of Inspection and Testing Agencies

This Statement of Special Inspections / Quality Assurance Plan includes the following building systems (see attached list)

Special Inspection Agencies	Firm	Address, Telephone, e-mail
1. Special Inspection Coordinator		
2. Inspector		
3. Inspector		
4. Testing Agency		
5. Testing Agency		
6. Other		

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.

STATEMENT OF SPECIAL INSPECTIONS

City of Salem

Community Development

Building Inspections

QUALITY ASSURANCE PLAN

VCC sections 1704 and 1705 require quality assurance plans to be submitted for certain seismic and/or wind requirements. Please review the requirements, as applicable, for the City of Salem.

Quality Assurance for Seismic Resistance

Seismic Design Category

Quality Assurance Plan Required (Y/N)

Description of seismic force resisting system and designated seismic systems:

Quality Assurance for Wind Requirements

Basic Wind Speed (3 second gust)

Wind Exposure Category

Quality Assurance Plan Required (Y/N)

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

Statement of Responsibility

Each contractor responsible for the construction or fabrication of a system or component designated above must submit a Statement of Responsibility.

STATEMENT OF SPECIAL INSPECTIONS

City of Salem

Community Development

Building 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 and must meet the qualifications listed in Section 1704 of the VCC. 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 or the City of Salem Building Official 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.

Registered Design Professionals

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
PE/FPE	Fire Protection Engineer - a licensed PE specializing in design of fire protection systems *
PE/ME	Mechanical Engineer - a licensed PE specializing in design of mechanical systems *
EIT	Engineer-In-Training – a graduate engineer who has passed Fundamentals of Engineering exam

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	Pre-stressed 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
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2015 VUSBC SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	TYPE OF TEST/INSPECTION	Needed? Y / N	EXTENT/ REFERENCE *	AGENCY # (QUALIF.)	SCOPE
GENERAL					
Pre-construction Conference	Meeting with parties listed to discuss Special Inspection procedures	Y	City of Salem SI Guidelines	ALL agencies	Schedule by SI w/ Contractor prior to commencement of work
QUALITY ASSURANCE					
Seismic	Quality Assurance Plan		1704.3.2	PE/SE/ME	Seismic Classification (C,D,E,F)
Wind	Quality Assurance Plan		1704.3.3	PE/SE/ME	Wind Speed > 115 mph
STEEL CONSTRUCTION					
Steel Member Fabricator	Plant Certification/Quality control of Manufacturer <input type="checkbox"/> Fabricator Exempt		1704.2.5	AWS/AISC- SSI ICC-SWSI	Review shop fabrication and quality control procedures
Material Certification	Mfr's Certificate of Compliance Structural Steel		AISC 360-10	AWS/AISC- SSI ICC-SWSI	Review certified mill reports and identification markings for wide-flange shapes
Material Certification	Mfr's Certificate of Compliance Bolts, nuts, washers & connectors		AISC 360-10	AWS/AISC- SSI ICC-SWSI	Review certified mill reports and identification markings for high-strength bolts, nuts and welding electrodes
Material Certification	Weld Materials - Manufacturer's Certificate of Compliance		AISC 360-10		
Metal Decking	Welding to supports		1705.2.2	AWS-CWI	Inspect welding and side lap fastening of metal roof and floor deck
Metal Decking	Manufacturer's Certificate of Compliance		1705.2.2		
Open Web Steel Joists			1705.2.3	AWS/AISC- SSI ICC-SWSI	Inspect installation, field welding and bridging of joists
Steel Framing Drawings	Shop drawings review		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Erection-Bolting	Installation of High-strength Bolts		AISC 360-10	AWS/AISC- SSI ICC-SWSI	Inspect installation and tightening of high- strength bolts. Verify that splines have sep- arated from tension control bolts. Verify proper tightening sequence.
Erection-Bolting	Installation of Slip-critical Bolts		AISC 360-10	AWS/AISC- SSI ICC-SWSI	Inspect installation and tightening of high- strength bolts. Verify that splines have sep- arated from tension control bolts. Verify proper tightening sequence. Continuous inspection of bolts in slip critical connec.
Erection-Welding	Welding		AISC 360-10	AWS-CWI ASNT	Visually inspect all welds. Inspect pre-heat, post-heat and surface preparation between passes. Verify size and length of fillet weld Ultrasonic testing of all full-penetration welds
Erection-Shear Connections	Steel Framing and Connections		AISC 360-10	AWS/AISC- SSI ICC-SWSI	Inspect size, number, positioning and weld- ing of shear connectors. Inspect studs for full 360 degree flash. Ring test all shear connectors with a 3lb hammer. Bend test all questionable studs to 15 degrees
Other					
CONCRETE CONSTRUCTION					
Concrete	Ready-mix Plant quality control		Specs, ACI, 1704.2.5	ACI CCI ICC- RCSI	Review concrete batch tickets and verify compliance with approved mix design. Verify that water added at the site does not exceed that allowed by the mix design, as permitted by ASTM C94.
Concrete	Mix design tests and certificates		Specs, 1705.3		Submit appropriate cert.

Reinf. Steel	Shop drawings of reinforcing steel		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Reinf. Steel	Placement of reinforcing steel		1705.3	ACI CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free from oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
Reinf. Steel	Welding		1705.2.2	AWS-CWI	Visually inspect all reinforcing steel welds. Verify weldability of reinforcing steel, Inspect preheating of steel when required
Reinf. Steel	Special Construction		1704.5.7		
Formwork	Design, placement & shoring		1705.3	ACI CCI ICC-RCSI	Visually inspect placement, bracing, and general construction of formwork; review design of formwork
Formwork	Removal and reshoring		1705.3	ACI CCI ICC-RCSI	Ensure implementation of shoring removal schedule is established and controlled
Concrete	Sampling and Testing		1705.3.2, Section 1903	ACI-CFTT ACI-STT	Test concrete compressive strength (ASTM C31 & C39), slump (ASTM C143), air- content (ASTM C231 or C173) and temperature (ASTM C1064)
Concrete	Mix proportions & Mix on Delivery Tickets		1705.3	ACI CCI ICC-RCSI	Verify use
Concrete	Slump Test		1705.3		
Concrete	Placement procedures		1705.3	ACI CCI ICC-RCSI	Inspect placement of concrete. Verify that concrete conveyance and depositing avoids segregation or contamination. Verify that concrete is properly consolidated
Concrete	Curing temperatures & techniques		1705.3	ACI CCI ICC-RCSI	Inspect curing, cold weather & hot weather protection procedures
Prestressed	Prestressing procedures & forces		1705.3	ICC-PCSI	Inspect placement, stressing, grouting and protection of post-tensioning tendons. Verify that tendons are correctly positioned, supported, tied, and wrapped. Record tendon elongations
Prestressed	Shop drawings of prestressed units		Specs	PE/SE	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Precast	Quality Control of Manufacturer		1704.2.5	ACI CCI ICC-RCSI	Review plant operations and quality control procedures
Precast	Shop drawings of precast		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Precast	Erection of precast		1705.3, Table 1705.3	PE/SE	Inspect erection of precast concrete including member configuration, connections, welding and grouting
Precast	Inspection of Connections		1705.3	PE/SE	Inspect size, positioning and embedment of connections. Inspect concrete placement and consolidation around anchors
Shotcrete	Reinforcing Steel - Test Panel		1908.5, 1705.21, 1909		
Anchor Rods	Anchors cast in concrete		Specs, 1705.2.1, Table 1705.3	ACI CCI ICC-RCSI	Inspect size, positioning and embedment of anchor rods. Inspect concrete placement and consolidation around anchors
Other					
MASONRY CONSTRUCTION		Required Inspection Level: 1 2			

Quality Assurance	Indicate Quality Assurance Level: A, B or C		ACI 530 - Table 1.19.1.2.3		
Material Certification	Certificates, Tests & technical data		ACI 530, Table 1.19.1	PE/SE	For clay and/or concrete masonry-submittal and field review meeting all specifications Fire Resistant rated assemblies included
Reinf. Steel	Shop Drawings		Specs, ACI	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Reinf. Steel	Condition, Size, Location, Spacing of Reinf Steel		Tables 1.19.1, 2	ICC-SMSI AWS-CWI	Inspect size, location, condition, spacing and lapping or reinforcing steel Inspect welding of reinforcing steel
Anchors & Ties	Manufacturer's data, placement of devices		ACI 530, Table 1.19.2	ICC-SMSI	Inspect size, location, spacing and embedment of dowels, anchors, and ties
Accessories	Manufacturer's data		Specs		
Mixing of Mortar and Grout	Mix design and data		Specs	ICC-SMSI	Inspect proportioning, mixing, and retempering of mortar and grout
Installation of Masonry	Application & Installation		ACI 530, Table 1.19.2	ICC-SMSI	Inspect size, layout, bonding and placement of masonry units
Weather Protection	Protection of masonry work		ACI 530, Table 1.19.2	ICC-SMSI	Inspect curing, cold weather & hot weather protection procedures. Verify that wall cavities are protected against precipitation
Evaluation of mortar and grout strength	Field samples and testing, placement		ACI 530.1		
Evaluation of Masonry Strength	Testing/review of strength		ACI 530.1	ICC-SMSI	Test compressive strength of mortar (ASTM C780) and grout specimen samples (ASTM C1019). Test compressive strength per unit strength method (ASTM C140)
Other					
WOOD CONSTRUCTION					
Wood Pre-Fabrication	Plant Certification/Quality control of Manufacturer <input type="checkbox"/> Fabricator Exempt		1704.2.5		Inspect shop fabrication and quality control procedures for wood truss plant
Material Grading	Grade stamp		Specs, 1703.5		
Connections	Fastening per code and drawings		Specs		
Framing and Details			Specs, Section 2308		
Diaphragms and Shearwalls			1705.5.1		Inspect size, configuration, blocking, and fastening of shearwalls and diaphragms. Verify panel grade and thickness
Trusses	Shop drawings		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Trusses	Truss placement, fastening & anchorage		Specs, 1705.5		
Laminates	Shop drawings		Specs	PE/SER	Verify compliance with specified design loads and specifications; verify on-site conditions match shop drawing details
Laminates	Identification per shop drawings		Specs		
Plywood	Grade stamp & thickness		Specs, 1705.2.5		
SOILS AND FOUNDATION					
Soil	Classify and test Existing Soils and Fill Materials		Specs, 1705.6		
Soil	Compaction of Fill Materials		Specs, 1705.6	PE/GE	Perform sieve tests and modified Proctor tests of each source of fill material, per ASTM standards Inspect placement, lift thickness and compaction of controlled fill Test density of lift of fill by nuclear meth. Verify extent and slope of fill placement

Soil	Bearing at bottom of footing excavations		Specs/1705.6	PE/GE	Inspect soils below footings for adequate bearing capacity and consistency with geotechnical report Inspect removal of unsuitable material and preparation of subgrade prior to placement of controlled fill
Soil / Rock	Bottom of Caissons		1705.3, 1705.8	PE/GE	
Piles	Driving records, tip & cutoff elevations		1705.7, 1705.9	PE/GE	Inspect and log pile driving operations Record pile driving resistance and verify compliance with driving criteria Inspect piles for damage from driving & plum. Verify pile size, length and accessories Inspect installation of drilled pier foundations Verify pier diameter, bell diameter, lengths, embedment into bedrock and suitability
Piles	Load Test		1705.7	PE/GE	Monitor pile load test
Helical Pile	Load Test		1705.9	PE/GE	Monitor pile load test
Reinf. Bars	Size & placement in foundations		ACI, 1705.3	ACI CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free from oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
Piers	Size & placement of Reinf. Bars		ACI, 1705.3	ACI CCI ICC-RCSI	Inspect size, spacing, cover, positioning and grade of reinforcing steel. Verify that reinforcing bars are free from oil or other deleterious materials. Inspect bar laps and mechanical splices. Verify that bars are adequately tied and supported on chairs or bolsters
SEISMIC FORCE RESISTANCE INSPECTIONS					
Structural steel	Welding and bolting		1705.12.1.1		
Wood	Field glueing		1705.12.2		
Wood	Fastening of Seismic Force Resistance System		1705.12.2		
Light gauge steel	Fastening		1705.12.3		
Components	Mechanical and Electrical - anchorage and labeling		1705.12.4, 1705.12.6		
Components	Architectural Exterior Cladding		1705.12.5		
Components	Access Floors		1705.12.5.1		
Components	Storage Racks		1705.12.7		
SEISMIC RESISTANCE TESTING					
Structural steel	Steel systems and elements		1705.13.1, AISC 341		
Non-structural steel	Components - Manufacturer's Certificate of Compliance		1705.13.2		
Non-structural steel	Designated Systems - Certificate of Compliance		1705.13.3		
Structural steel	Isolation Systems		1705.13.4		
Other					
SPRAY FIRE RESISTANT MATERIAL (SFRM)					
Material Specifications	Manufacturer's data		Specs	PE/SE/FPE	
Laboratory Tested Fire Resistance Design			1705.14	ICC-SFSI	Review Third-party fire resistive design assembly (eg. UL, FM, etc.) for each rated beam, column, or assembly
Thickness			1705.14.4	ICC-SFSI	Review approved thickness schedule
Surface Preparation	Surface Conditions		1705.14.2	ICC-SFSI	Inspect surface preparation of steel prior to application of SFRM
Application			1705.14.3	ICC-SFSI	Inspect application of SFRM
Density			1705.14.5	ICC-SFSI	Test density of SFRM material (ASTM E605)
Bond Strength			1705.14.6	ICC-SFSI	Test the cohesive/adhesive bond strength of SFRM (ASTM E736). Perform not less than one test for each 10,000 SF.

MASTIC and INTUMESCENT FIRE-RESISTIVE COATINGS					
Application	Inspect mastic and intumescent fire-resistant coatings applied to structural elements and decks, in accordance with AWCI 12-B.		1705.15	ICC-SFSI	Verify thickness and application of coatings prescribed in fire-resistant design.
EXTERIOR INSULATION and FINISH SYSTEMS (EIFS)					
Material Submittal			Specs	EDI-EIFS	
Condition of Substrate			Specs, 1705.16.1	EDI-EIFS	
Application			Specs, 1705.16.1	EDI-EIFS	
SMOKE CONTROL					
Ducts	Device location and air duct leakage		1705.18.1	PE/FPE/ME	
System	Pressure difference, flow measurements & detection testing		1705.18.1	PE/FPE/ME	
Controls	Activation sequence		1705.18.1	PE/FPE/ME	
Other					
EARTH RETAINING STRUCTURES >10 FT. UNBALANCED FILL					
Footing, Foundation	Inspect placement of foundation system		Specs, City Pol.	PE/SE/GE	
Backfill Information	Confirm type of soil and height		Specs, City Pol.	PE/SE/GE	
Guard Rail	Load Test		Specs, City Pol.	PE/SE/GE	
Wall Geometry	Verify dimensions of wall per appr. Plans		Specs, City Pol.	PE/SE/GE	
Compaction Testing	Compaction of Fill Materials		Specs, City Pol.	PE/SE/GE	
Layout Information			Specs, City Pol.	PE/SE/GE	
Other					
SPECIAL CASES					
Alternative Materials & Sys.	As requested by Building Official, review and installation		1703.4		
System Commissioning	Commissioning Systems for LEED certified projects, etc.				
Note:					