



STATEMENT OF SPECIAL INSPECTIONS
DIVISION OF PLANNING AND PERMITTING
FREDERICK COUNTY, MARYLAND
Department of Permits and Inspections
30 North Market Street - Frederick, Maryland 21701
Phone (301) 600-2313 Fax (301) 600-2309

PROJECT

PERMIT APPLICANT

PRIMARY RDP OF RECORD

STRUCTURAL ENGINEER OF RECORD

BUILDING PERMIT NO: _____

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the 2021 International Building Code (IBC). It includes a Schedule of Special Inspections applicable to this project as well as the name of the Special Inspector and the identity of other testing laboratories or agencies intended to be retained for conducting these inspections or tests.

The Special Inspector shall keep records of all inspections and shall furnish inspection reports to the Manager of Inspection Service, appropriate Registered Design Professional(s) (RDP(s)), Owner, and Contractor. All discrepancies shall be brought to the immediate attention of the Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the Manager of Inspection Services and appropriate RDP(s). Interim reports shall be submitted to the Manager of Inspection Services, Owner, Contractor, and the appropriate RDP(s).

Job-site safety is solely the responsibility of the contractor in accordance with IBC Chapter 33 and NFPA 1. Materials and activities to be inspected are not to include the contractor's equipment and methods used to erect or install the materials listed. **All fees/ costs related to the performance of Special Inspections shall be the responsibility of the Owner. Additionally, the undersigned (RDP or SER) are only acknowledging that the items enumerated on the Schedule of Special Inspections are consistent with the required design elements, the applicable sections of the International Building Code, NFPA 1, and their area of expertise.**

(Next Page)

REVIEW, AUTHORIZATION & ACCEPTANCE:

Permit Applicant *(General Contractor):*

Signature / date: _____

Printed Name: _____

Owner's Authorization:

Signature / date: _____

Printed Name: _____

Primary RDP of Record:(Review and Acceptance of Schedule)

Signature / date: _____

Printed Name: _____

Structural Engineer of Record:(Review and Acceptance of Schedule)

Signature / date: _____

Printed Name: _____

Frederick County Permits and Inspections Acceptance:

Signature / date: _____

Printed Name: _____

SCHEDULE OF SI PREPARED BY:

Maryland RDP Seal of SSI Preparer

Printed Name of the Preparer of the Schedule (on line above)

Special Inspector:

Signature / date: _____

Printed Name:

SI Company Name:

SCHEDULE OF SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	TYPE OF INSPECTION	APPLICABLE TO THIS PROJECT			
		Y/C/P/N	EXTENT/REFERENCE	AGENT	COMPLETED
GENERAL					
Pre-construction meeting	Meeting with parties listed in Section 9 of HRRSIGP to discuss Special Inspection procedures		Scheduled by SI with the Contractor prior to commencement of work		
EARTHWORK					
Site preparation (structure)	Field testing and inspection		Field Review; IBC 1705.6		
Fill material (structure)	Review submittals, field testing, and inspection		Field Review; IBC 1705.6		
Fill compaction (structure)	In-place density tests, lift thickness		Field Review; IBC 1705.6		
Excavation	Field inspection and verification of proper depth		Field Review; IBC 1705.6		
Foundation subgrade (structure)	Field inspection of foundation subgrade prior to placement of concrete		Field Review; IBC 1705.6		
DEEP FOUNDATION/HELICAL PILE FOUNDATION ELEMENTS					
Materials	Review product, sizes, and lengths		Submittal and Field Review; 1705.7, 1705.8, 1705.9, 1705.10		
Test piles	Monitor driving of test piles		Field Review; IBC 1705.7, 1705.8 or 1705.9		
Installation	Monitor drilling, placement, plumbness, driving of piles, including recording installation torque, pressure, blows per foot, cut off, and tip elevation		Field Review; IBC 1705.7, 1705.8, 1705.9		
Load test	Monitor pile load test		Field Review; IBC 1705.7, 1705.8 or 1705.9		
CONCRETE					
Materials	Review product supplied versus certificates of compliance and mix design		Submittal & Field Review; ACI 318: Ch. 19, 26.4.3, 26.4.4; IBC 1705.3, 1903.2		
Installation of reinforcing steel, including welding, as well as prestress tendons, anchor bolts, and fiber-reinforcement	Field inspection of placement		Submittal and Field Review; ACI 318: Ch. 20, 25.2, 25.3, 26.5.1-26.5.3; AWS D1.4; IBC 1705.3, 1705.3.1, 1705.3.2, 1901.3		

Formwork installation	Field inspection		Field Review; ACI 318; IBC 1705.3		
Concreting operations and placement	Field inspection of placement/sampling		Field Review; ACI 318: 26.5.2, 26.12.3; ASTM C 172, C 31; IBC 1705.3		
Concrete curing	Field inspection of curing process		Field Review; ACI 318: 26.5.3, 26.5.4, 26.5.5; IBC 1705.3		
Concrete strength	Evaluation of concrete strength		Laboratory Testing; ACI 318: 26.12; IBC 1705.3		
Application of forces for prestressed concrete	Field inspection		Field Review; ACI 318: 26.10.2(e); IBC 1705.3		
Grouting of prestress tendons	Field inspection		Field Review; ACI 318: 19.4.1, 20.5.6, 26.13.3.2(b); IBC 1705.3		

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2021 IBC Edition

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PRECAST CONCRETE					
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures**		Submittal or Field Review; IBC 1704.2.5, 1705.3		
Erection and installation	Review submittals and as-built assemblies; Field inspection of in-place precast		Submittal & Field Review; ACI 318; IBC Table 1705.3		
MASONRY (Level ____; Building Risk Category ____)					
Materials	Review of products supplied versus certificate of compliance and material submitted		Submittal & Field Review; IBC 1705.4, 1709; TMS 402/602		
Strength	Testing/review of strength		Submittal & Field Review; IBC 1705.4, 2105; TMS 402/602		
Mortar and Grout	Inspection of proportioning and mixing. Placement of mortar only		Submittal & Field Review; IBC 1705.4; TMS 402/602		
Grout placement, including prestressing grout	Verification to ensure compliance		Field Review; IBC 1705.4; TMS 402/602		
Grout space	Verification to ensure compliance		Field Review; IBC 1705.4; TMS 402/602		
Mortar, grout, and prism specimens	Observe preparation		Field Review; IBC 1705.4; TMS 402/602		
Reinforcement, prestressing tendons, and connections	Inspect condition, size, location, and spacing		Field Review; IBC 1705.4; TMS 402/602		
Welding of reinforcing bars	Inspection and testing of welds		Field Review; IBC 1705.3.1, 1705.4; TMS 402/602		
Prestressing force	Verify application and measurement		Field Review; IBC 1705.4; TMS 402/602		
Protection	Inspect procedures for protection during cold and hot weather		Field Review; IBC 1705.4; TMS 402/602		
Anchorage	Inspection of anchorages		Field Review; IBC 1705.4; TMS 402/602		
Masonry installation	Inspection of placement of masonry and joints		Field Review; IBC 1705.4; TMS 402/602		
STRUCTURAL STEEL					
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures** or submit Certificate of Compliance		Submittal or Field Review; IBC 113.5, 1704.2.5, 1704.2.5.1, 1705.2		

Bolts, nuts, and washers – materials	Material identification markings; Review of Certificate of Compliance		Submittal & Field Review; IBC 1705.2.1; AISC 360 Section A3.3		
Bolts, nuts, washers – installation	Inspection of in-place high-strength bolts, snug-tight joints, pre-tensioned and bearing type, and slip critical connections		Submittal & Field Review; IBC 1705.2.1, 2204.2; AISC 360 Section M2.5		
Structural steel – materials	Material identification markings and review of Certificate of Compliance		Submittal & Field Review; IBC 1705.2.1; ASTM A6, A568; AISC 360 Section A3.1		
Structural steel details – installation	Inspection of member locations, structural details for bracing, connections, and stiffening		Submittal & Field Review; IBC 1705.2.1; AISC 360		
Open-web steel joists and joist girders – installation	Inspection of end connections and bridging		Submittal & Field Review; IBC 1705.2.3; SJI-100		
Weld filler materials and welder certification	Review of identification markings, certificate of compliance, and welder certifications		Submittal & Field Review; AISC 360 A3.5		

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Welds	Inspection and testing of welds		Field Review; IBC 1705.2, 2204.1; AWS D1.1, D1.3		
Cold-formed metal deck – materials	Review of identification marking manufacturer's certified test results		Submittal & Field Review; IBC 1705.2.2		
Cold-formed metal deck – installation	Review laps and welds		Submittal & Field Review; IBC 1705.2.2; AWS D1.3; SDI		
Cold-formed light frame construction – welds	Review welding operation		Field Review; IBC 1705.12.2, 1705.12.3		
Cold-formed light frame construction wind resistance – screws	Review screw attachment bolting, anchoring hold downs, bracing, diaphragms, struts		Field Review; IBC 1705.12.2, 1705.12.3		
Cold-formed steel trusses spanning 60' or greater	Inspection of temporary and permanent restraints/bracing		Submittal & Field Review; IBC 1705.2.4		
WOOD					
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures** or submit Certificate of Compliance		Submittal or Field Review; IBC 113.5, 1704.2.5, 1704.2.5.1, 1705.5, 2303.4.7		
Metal plate connected wood/metal trusses spanning 60' or more	Review approved submittal and installation of restraint/bracing		Submittal & Field Review; IBC 1704.2.5, 1704.2.5.1, 1705.5, 1705.5.2		
Joist hangers – materials/installation	Review manufacturer's material and test standards		Field Review; ASTM D 1761		
High-load diaphragms - installation	Review submittal and as-built assemblies; Inspection of sheathing, framing size, nail and staple diameter and length, number of fastener lines, and fastener spacing		Submittal & Field Review; IBC 1705.5, 1705.5.1		
Wood shear walls – installation	Review nailing, bolting, anchoring, fastening, diaphragms, struts, braces, and hold downs when fasteners are $\leq 4"$ on center		Field Review; IBC 1705.12.1		
Mass timber – anchorage	Review installation of anchorage to timber deep foundation		Field Review; IBC 1705.3, Table 1705.5.3		
Mass timber – erection	Inspection of member locations and structural details for bracing		Submittal & Field Review; IBC 1705.3, Table 1705.5.3		

Mass timber – threaded fasteners	Inspection of installation equipment, pre-drilled holes, and screws, including diameter, length, head type, spacing, installation angle, and depth		Submittal & Field Review; IBC 1705.3, Table 1705.5.3		
Mass timber – adhesive anchors	Installation of drilled hole depth and preparation; Review material and installation of adhesive anchors		Submittal & Field Review; IBC 1705.3, Table 1705.5.3		
Mass timber – bolted connections	Review materials and installation of bolts, nuts, and washers		Field Review; IBC 1705.3, Table 1705.5.3		
Mass timber – concealed connections	Review materials and installation of fasteners in all concealed locations		Field Review; IBC 1705.3, Table 1705.5.3		
MAIN WIND FORCE RESISTING SYSTEM					
Wind requirements	Review of the system components and installation for wood construction, cold-formed steel light frame construction, components, and cladding		Submittal & Field Review; IBC 1609.2, 1705.12		

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		Y/C/P/N	EXTENT/REFERENCE	AGENT	COMPLETED
SEISMIC FORCE RESISTING SYSTEMS					
Seismic requirements	Review of the designated seismic systems and seismic force resistance systems		Submittal & Field Review; IBC 1613, 1704.6, 1705.13, 1705.14; ASCE 7		
SMOKE CONTROL					
Special Inspection of smoke control systems	Leakage testing and recording of device location; Pressure difference testing, flow measurement and detection, and control verification		Field Review; IBC 1705.19, 1705.19.1, 1705.19.2		
SPRAYED FIRE RESISTIVE MATERIAL, FIRE RESISTANT PENETRATIONS; JOINTS, MASTIC AND INTUMESCENT FIRE RESISTANT COATING					
Structural member surface conditions	Field review of surface conditions prior to application		AWCI 12-B; IBC 1705.15, 1705.15.1, 1705.15.2		
Application/thickness/density/bond strength	Field review of application operations, thickness, and density		ASTM E605; AWCI 12-B; IBC 1705.15.1, 1705.15.2, 1705.15.3, 1705.15.4, 1705.15.5, 1705.15.6		
Mastic & intumescent fire resistant coating	Field review of application operations and thickness		AWCI 12-B; IBC 1705.16		
Mass timber sealant or adhesives	Field review of application of sealant or adhesives		ASTM C920, D3498; IBC 703.7, 1705.20		
EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)					
Application	Field Review of application/installation		ASTM E2570; IBC 1407.6, 1705.17		
SPECIAL CASES					
Retaining walls	Field review of installation of pre-manufactured structural components, drainage, and compaction		Field Review; IBC 113.4, 1705.1.1		
MEP Sprinkler system hangers/supports	Field review of placement and anchorage		Field Review; IBC 903.3.1.1, 1705.1.1; NFPA 13: 9.2		
Alternative materials and systems	As requested by Building Official, review system and installation		IBC 112.2, 112.3, 113.4, 1705.1.1		

INSPECTION AGENTS	FIRM		ADDRESS	TELEPHONE	
1. Special Inspector:					
2. Materials and Testing Laboratory:					
3. Special Inspector Smoke Control System:					
4. (Additional Agents)					

Note:

* The Qualifications of the Special Inspector and Testing Laboratories are subject to the approval of the Frederick County Maryland Permits and Inspections Division.

** Inspection of quality control procedures required only if fabricator is not regularly inspected by an *Approved* independent inspection agency or a referenced standard that provides requirements for quality control. **See Section 5.**

***For construction projects in seismic regions, the Schedule of Special Inspections shall be expanded to include Architectural, Mechanical, and Electric components, as well as Storage Racks and Isolation Systems. Items in IBC Section 1705.13

Building Permit No: _____

FREDERICK COUNTY MARYLAND STATEMENT OF SPECIAL INSPECTIONS - 2021 IBC

FINAL REPORT OF SPECIAL INSPECTIONS

PROJECT

PERMIT APPLICANT

PRIMARY RDP OF RECORD

STRUCTURAL ENGINEER OF RECORD

BUILDING PERMIT NO: _____

To the best of my information, knowledge, and belief, the Special Inspections required for this project, as itemized in the Statement of Special Inspections submitted for permit, have been completed. Attached to this final report are the Certificates of Compliance for shop fabricated load bearing members and assemblies. (Include this statement only if applicable).

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

Signature

Date

Type or Print Name (Agent 1)

Seal of SI

Upon completion of all Special Inspections and testing, the SI shall submit a Final Report of Special Inspections to the Frederick County Permits and Inspections for review and approval. Review and approval is required prior to final building inspection approval or issuance of a Certificate of Occupancy.