

PRINCE WILLIAM COUNTY Department of Development Services – Building Development Division

STATEMENT OF SPECIAL INSPECTIONS

(Building/Other Structures other than Retaining Walls) Version 2020_0623

Building Permit Number: <u>BLD20</u> -	VUSBC Edit	ion:	
Project Name:	Group:	Constr	ruction Type:
Project Address:			
Building Owner's Name:			
Owner's Address:			
Architect of Record:			
Structural Engineer of Record:	Name & License		Company
Geotechnical Engineer of Record:	Name & License		Company
	Name & License		Company
Mechanical Engineer of Record:(Smoke Control Systems Only)	Name & License		Company
Special Inspections Engineer of Record:	rume & License		Company
opecial inspections Engineer of Records	Name & License		Company
Inspection and testing Agency:			
Con anal Contro atom	Company		Address
General Contractor:	Name & License		Company
Others:			
Responsible Party	Name & License		Company
This Statement of Special Inspections is submitted as a condition for permit is Code. The Special Inspections Schedule is an integral part of the Statement of The Special Inspections Engineer of Record shall keep records of specified spectating reports to the Prince William County Special Inspections Section (PW Record (RDPR), (e.g. the SER for building structural elements, MER for smooth approved plans and specifications and code violations observed during the contact of the Contractor for correction, to the attention of PWCSIS, and to completion of specified special inspections, correction of any discrepancies a PWCSIS prior to the building concealment inspection by the Building Constructions.	f Special Inspections (CSIS) and to the abke control system induct of special in the RDPR. A Finand observed code	and testing and shall fu appropriate Registered an, AR for EIFS and SFF anspections services shall al Report of Special Ins violations shall be sub-	nrnish copies of inspection and Design Professional(s) of RM). Discrepancies from the II be brought to the immediate spections, documenting
Prepared by:	G: 4 P -		
Reviewed and Approved by: Structural Engineer of Record:	Signature & Date		agree to electronically signing this form.
	Signature & Date	☐ By checking this box, I	agree to electronically signing this form.
Architect of Record (EIFS, SFRM, Mastic & Intumescent applications Only)	Signature & Date	☐ By checking this box, I	agree to electronically signing this form.
Mechanical Engineer of Record (Smoke Control Systems Only)	Signature & Date	☐ By checking this box, I	agree to electronically signing this form.
Building Owner's Authorization:	Signature & Date	☐ By checking this box, I	agree to electronically signing this form.
Building Official's Acceptance:			
Building Plan Reviewer		Special Inspection	ns Reviewer

	REQUIRED VERIFIC	CATION AND I	NSPECTION		-	Inspections	Start Date	Completion
Task, Vei	rification and Inspection	Frequency Of	Inspections	Referenc	e Criteria	By	of	Date of
		Continuous	Periodic	Ref. Std.	IBC Ref.		Inspection	Inspection
A. [SOILS				1705.6	SIER		
1.	Controlled fill placed under Site Permit (Submit Building Pad Certification in accordance with Building Development Division's Policy 1.4, Building Pad Certification)	_	_					
2. 🗌	Controlled fill placed under this Building Permit	X	_					
3.	Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	_	X					
4.	Verify excavations are extended to proper depth and have reached proper material.	_	X					
5. 🗌	Perform classification and testing of compacted fill materials.	_	X					
6.	Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	_					
7. 🗌	Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.	_	X					
8.	Verify installation of Drain tile (Gravity/ Mechanical)	_	X					
В. 🗌	CONCRETE CONSTRUCTION				1705.3	SIER		
1.	Inspection of reinforcing steel and placement, ☐ including prestressing tendons.	_	X	ACI 318: 3.5, 7.1-7.7	1910.4			
2.	Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b of this schedule of inspections.	_	_	AWS D1.4 ACI 318: 3.5.2				
3.	Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.		X	ACI 318: 8.1.3, 21.2.8	1908.5 1909.1			
4.	Inspection of anchors post-installed in hardened concrete members.	_	X	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1			
5. 🗌	Verifying use of required design mix.		X	ACI 318: Ch. 4, 5.2- 5.4	1904.2, 1910.2, 1910.3			

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	REQUIRED VERIFIC	CATION AND IN	SPECTION			Inspections	Start Date	Completion
Task, Veri	ification and Inspection	Frequency Of		Referenc	e Criteria	By	of	Date of
	-	Continuous	Periodic	Ref. Std.	IBC Ref.		Inspection	Inspection
В. 🗌	CONCRETE CONSTRUCTION Continued.					SIER		
6.	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump, air content tests, and determine the temperature of the concrete.	Х	_	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10			
7. 🗌	Inspection of concrete and shotcrete placement for proper application techniques.	X	_	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8			
8. 🗌	Inspection for maintenance of specified curing temperature and techniques.	_	X	ACI 318: 5.11-5.13	1910.9			
9. <u> </u>	Inspection of prestressed concrete: Application of prestressing forces.	X	_	ACI 318: 18.20	_			
9b. 🗌	Grouting of bonded prestressing tendons in the seismic-force-resisting system.	X	_	ACI 318: 18.18.4	_			
10.	Verification of in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.		X	ACI 318: 6.2	_			
11.	Inspect formwork for shape, location and dimensions of the concrete member being formed, shoring and reshoring.	_	X	ACI 318: 6.1.1				
12. <u> </u>	Precast/Tilt-Up Concrete Panel elements Erection of precast concrete members	_	X	ACI 318: Chap. 16				
12b. 🗌	Verify that manufacturer of precast structural elements is under the supervision of a registered design professional and plant maintains detailed quality control procedures.	_	X	ACI 318: Chap. 16				
12c.	Manufacturer is PCI/NPCA Certified.		X					
12d. 🗌	Fabrication of Tilt-Up Concrete Panel members	_	X					
12e.	Erection of Tilt-Up Concrete Panel members	_	X					
	Others							
13.								
14.								
15.								

	REQUIRED V	ERIFICATION	N AND INSPE	CTION			Inspections	Start Date	Completion
Task, V	erification and Inspection		f Inspections		Reference Cri		By	of	Date of
		Continuous	Periodic	IBC Ref	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6		Inspection	Inspection
C. 🗌	MASONRY CONSTRUCTION - LEVEL 1			1705.4			SIER		
1.	Verify compliance with the approved submittals	_	X	_	_	Art. 1.5			
2.	Verification of f'_m and f'_{AAC} prior to construction except where specifically exempted by the code.	_	X	_	_	Art. 1.4B			
3.	Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X	_	_	_	Art. 1.5B.1.b.3			
4.	As masonry construction begins, verify that the following are in compliance:								
4a. 🗌	Proportions of site-prepared mortar.	_	X	_	_	Art. 2.6A			
4b. 🗌	Location of reinforcement, connectors, and prestressing tendons and anchorages.	_	X	_	_	Art. 3.4, 3.6A			
4c.	Prestressing technique.	_	X	_	_	Art. 3.6B			
4d. 🗌	Grade and size of prestressing tendons and anchorages.	_	X	_	_	Art. 2.4B, 2.4H			
5. 🗌	Verify during construction:								
5a. 🗌	Size and location of structural elements.	_	X	_	_	Art. 3.3F			
5b. 🗌	Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	_	X	_	Sec. 1.16.4.3, 1.17.1	_			
5c. 🗌	Welding of reinforcing bars.	X	_	_	Sec. 2.1.7.7.2, 3.3.3.4(c), 8.3.3	_			
5d. 🗌	Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	_	X	2104.4	_	Art. 1.8C, 1.8D			
5e. 🗌	Application and measurement of prestressing force.	X	_	_	_	Art. 3.6B			
5f. 🗌	Placement of grout, and Prestressing grout for bonded tendons is in compliance.	X	_	_		Art. 3.5, Art. 3.6C			

	REQUIRED V	ERIFICATION	N AND INSPE	CTION			Inspections	Start Date	Completion
Task, Ve	rification and Inspection	Frequency (Of Inspection		Reference Cri	teria	By	of	Date of
		Continuous	Periodic	IBC Ref.	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6		Inspection	Inspection
C. 🗌	MASONRY CONSTRUCTION - LEVEL 1 Continued.			1705.4			SIER		
6.	Prior to grouting, verify the following are in compliance:								
6a. 🗌	Grout space is clean.	_	X	_	_	Art. 3.2D, 3.2F			
6b. 🗌	Grade, Type and size of reinforcement and anchor bolts, and, prestressing tendons and anchorages.	_	X	_	Sec. 1.16	Art. 2.4, 3.4			
6c. 🗌	Placement of reinforcement and connectors, and prestressing tendons and anchorages.	_	X	_	Sec. 1.16	Art. 3.4E, 3.4, 3.6A			
6d. 🗌	Proportions of site-prepared grout and Prestressing grout for bonded tendons.	_	X	_	_	Art. 2.6B			
6e. 🗌	Construction of mortar joints.		X	_	_	Art. 3.3B			
7.	Observe preparation of grout specimens, mortar specimens and/or prisms.	_	X	Sec. 2105.2. 2, 2105.3	_	Art. 1.4B.2a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4			
8.									
D. [MASONRY CONSTRUCTION - LEVEL 2			1705.4			SIER		
1.	Verify compliance with the approved submittals.	_	X	_	_	Art. 1.5			
2. 🗌	Verification of f_m and f_{AAC} prior to construction and for every 5,000 square feet during construction.	_	X	_	_	Art. 1.4B			
3.	Verification of proportions of materials in premixed or pre-blended mortar and grout as delivered to the site.	_	X	_	_	Art. 1.5B			
4.	Verification of slump flow and VSI as delivered to the site for self-consolidating grout.	X	_	_	_	Art. 1.5B.1.b.3			

REQUIRED VERIFICATION AND INSPECTION							Inspections	Start Date	Completion
	rification and Inspection	Frequency Of			Reference Crite		By	of	Date of
Verificati	on And Inspection	Continuous	Periodic	IBC Section	TMS 402/ACI 530/ASCE 5	TMS 602/ACI 530.1/ASCE 6		Inspection	Inspection
D. 🗌	MASONRY CONSTRUCTION -								
	LEVEL 2 – Continued.			1705.4			SIER		
5. 🗌	Verify that the following are in compliance:								
5a. 🗌	Proportions of site-prepared mortar, grout and \square prestressing grout for bonded tendons.	_	X	_	_	Art. 2.1, 2.6A- C, 2.4G.1.b			
5b. 🗌	Grade, Type and size of reinforcement and anchor bolts, and, prestressing tendons and anchorages.	_	X	_	Sec. 1.16	Art. 2.4, 3.4			
5c. 🗌	Placement of masonry units and construction of mortar joints.	_	X	_	_	Art. 3.3B			
5d. 🗌	Placement of reinforcement, connectors and, \square prestressing tendons and anchorages.	_	X	_	Sec. 1.16	Art. 3.2E,3.4, 3.6A			
5e. 🗌	Grout space prior to grouting.	X		_	_	Art. 3.2D, 3.2F			
5f. 🗌	Placement of grout and prestressing grout for bonded tendons.	X	_	_	_	Art. 3.5, Art. 3.6C			
5g. 🗌	Size and location of structural elements.	_	X	_	_	Art. 3.3F			
5h. 🗌	Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction.	X	_	_	Sec., 1.16.4.3, 1.17.1	_			
5i. 🗌	Specified size, grade and type of reinforcement, anchor bolts and Prestressing tendons and anchorages.		X	_	Sec. 1.15	Art. 2.4, 3.4			
5j. 🗌	Welding of reinforcing bars.	X	_	_	Sec. 2.17.7.2, 3.3.3.4 (b), (c).	_			
5k. 🗌	Preparation, construction and protection of masonry during cold weather (temperature below 40°F) or hot weather (temperature above 90°F).	_	X		_	Art. 1.8C, 1.8D			
51.	Application and measurement of prestressing force.	X	_	_	_	Art. 3.6B			
6.	Observe preparation of grout specimens, and/or prism.	X	_		_	Art. 1.4B.2a.3, 1.4B.2.b.3, 1.4B.2.c.3, 1.4B.3, 1.4B.4			

SPECI	AL INSPECTIONS SCHEDULE			Buil	ding Permit N	Number: BLI)20	
	REQUIRED VERIFI	CATION AND	INSPECTION			Inspections	Start Date	Completion
Task, Ver	rification and Inspection	Frequency Of Inspections		Reference Criteria		By	of	Date of
		Continuous	Periodic	Ref. Std.	IBC Ref.	7	Inspection	Inspection
E. 🗌	STRUCTURAL STEEL				1705.2.1	SIER		
1.	Structural Steel			AISC 360,				
	Structural steel inspections shall be in			Chapter N				
	accordance with the quality assurance							
	inspection requirements of AISC 360							
2a. 🗌	Verify that fabricator AISC Certified				1704.2			
2b. 🗌	Verify that fabricator maintains detailed				1704.2			
	fabrication and quality control procedures				1704.2			
3. 🗌	Fabricator is certified with International							
	Accreditation Service for Pre-engineered				1704.2			
	metal Buildings.							
4. 📙	Material verification of cold-formed steel				1705.2.2			
	deck:							
4a. 🗌	Identification markings to conform to			Applicable				
	ASTM standards specified in the approved		X	ASTM				
	construction documents.			material standards				
4h 🗆	Manufacturer's contified test rements			standards				
4b. ∐	Manufacturer's certified test reports.	_	X					
5.	Inspection of welding:				1705.2.2.1			
5a.	Cold-formed steel deck:				1705.2.2.1.2			
5b.	Floor and roof deck welds.		X	AWS D1.3	1703.2.2.1.2			
6.	Reinforcing steel:		71	11115 11.5	1705.2.2.1.2			
	· · ·				1703.2.2.1.2			
6a. 🗌	Verification of weldability of reinforcing		X					
	steel other than ASTM A 706.							
6b 🗌	Reinforcing steel resisting flexural and			AWS D1.4				
	axial forces in intermediate and special	X		ACI 318:				
	moment frames, and boundary elements of special structural walls of concrete and	Λ	_	Section	_			
	shear reinforcement.			3.5.2				
6c.	Shear reinforcement.	X						
6d.	Other reinforcing steel.		X					
7.			71	1	1705.2.2.2	SIER		
'. 🗀	or greater				1,03.2.2.2			
7a. 🗌	Verify that temporary installation							
	restraint/bracing is installed in accordance							
	with the approved truss submittal package.							
7b. 🗌	Verify that permanent installation of							
	individual truss member restraint/bracing							
	is installed in accordance with the							
I		1		i	I	I	l	I

approved truss submittal package.

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	REQUIRED VERIFICAT	TION AND INS	SPECTION			Inspections	Start Date	Completion
Task, Ver	ification and Inspection	Frequency O		Reference Criteria		By	of	Date of
,	•	Continuous	Periodic	Ref. Std.	IBC Ref.		Inspection	Inspection
F. 🗌	DRIVEN DEEP FOUNDATION ELEMENTS				1705.7	SIER		
1.	Verify element materials, sizes and lengths	V						
	comply with the requirements.	X	_					
2.	Determine capacities of test elements and	V						
	conduct additional load tests, as required.	X	_					
3.	Observe driving operations and maintain	X						
	complete and accurate records for each element.	Λ						
4.	Verify placement locations and plumbness,							
	confirm type and size of hammer, record number							
	of blows per foot of penetration, determine	X						
	required penetrations to achieve design capacity,	Α						
	record tip and butt elevations and document any							
	damage to foundation element.							
5. 🗌	For steel elements, perform additional							
	inspections in accordance with IBC Section on	_	_		1705.2			
	steel construction.							
6. 🗌	For concrete elements and concrete-filled	_						
	elements, perform additional inspections in		_		1705.3			
	accordance with IBC section on concrete				1700.0			
]	construction.							
7. 🗌	For specialty elements, perform additional							
	inspections as determined by the registered	_	_					
~ □	design professional of record.				1505.0	CIED		
G. 🗌	CAST-IN-PLACE DEEP FOUNDATION				1705.8	SIER		
	ELEMENTS							
1.	Observe drilling operations and maintain	***						
	complete and accurate records for each element.	X	_					
	Specify element :							
2. 🗌	Verify placement locations and plumbness;							
	confirm element diameters, bell diameters (if	v						
	applicable), lengths, embedment into bedrock (if	X	_					
	applicable) and adequate end-bearing strata							
2 🗆	capacity. Record concrete or grout volumes. For concrete elements, perform additional							
3. 🗌	inspections in accordance with IBC section on				1705.3			
	concrete construction.	_	_		1/03.3			
4.	For steel elements, perform additional				1705.2		1	
4. 🗀	inspections in accordance with IBC section on				1703.2			
	steel construction.							
	steer construction.							

	REQUIRED VERIFICA	ATION AND IN	SPECTION		Inspections	Start Date	Completion	
Task, Veri	fication and Inspection	Frequency O		Referenc	e Criteria	By	of	Date of
	•	Continuous	Periodic	Ref. Std.	IBC Ref	1	Inspection	Inspection
Н. 🗌	HELICAL PILE FOUNDATIONS (Helical Piers)	X			1705.9	SIER	_	
I. 🗌	VERTICAL MASONRY FOUNDATION ELEMENTS (Defined as Foundation piers – Chap 21)	X			1705.2, 1704.5, Chap. 21	SIER		
J. [SPRAYED FIRE-RESISTANT MATERIALS – Special Inspections shall be performed after the rough installation of electrical, automatic sprinkler, mechanical and plumbing systems and suspended systems for ceilings, where applicable.				1705.13	SIER		
1.	Verify structural member surface conditions	_	X		1705.13.2			
2. 🗌	Verify application of materials per manufacturer's instructions	X	X		1705.13.3			
3. 🗌	Verify thicknesses and density of applied materials	_	X		1705.13.4 1705.13.5			
4.	Verify the bond strength of applied materials	_	X		1705.13.6			
5.	Verify Condition of finished application.				1705.13			
К. 🗌	MASTIC AND INTUMESCENT FIRE- RESISTANT COATINGS			AWCI 12-B	1705.14	SIER		
1.	Verify structural elements/deck surface conditions	_	X					
2.	Verify application of materials per manufacturer's instructions	X	X					
L. [EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)				1705.15	SIER		
1.	Installed per County approved construction documents	_	_					
2. 🗌	Water-resistive Barrier Coating complying with ASTM E 2570 installed over a sheathing substrate							
М. 🗌	SMOKE CONTROL SYSTEMS				1705.17	SIER		
1.	Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	_	_					
2.	Please submit a detailed scope of services, including a protocol of inspections to comply with 1705.17							

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REQUIRED VERIFICA	TION AND INS	PECTION		Inspections	Start Date	Completion	
Task, Verification and Inspection	Frequency O		Referen	ce Criteria	By	of	Date of
•	Continuous	Periodic	Ref. Std.	IBC Ref		Inspection	Inspection
N. WOOD CONSTRUCTION				1705.5	SIER		_
1. Verify fabrication of wood structural elements and assembly				1704.2.5			
1a. Verify fabrication of wood structural element. Specify element:		X					
1b. Verify the assembly of structural elements		X					<u> </u>
1c. Verify fabrication of site-built assemblies.	X	X					
2. High-Load Diaphragms designed in accordance with Table 2306.2.1(2)				1705.5.1, 2306.2.1(2)	SIER		
2a. Verify grade and thickness of wood structural panel sheathing as shown on the approved building plans.		X					
2b. Verify the nominal size of framing members at adjoining panel edges, the nail or staple diameter and length, the number of fastener lines and the spacing between fasteners in each line and edge margins per approved building plans.		X					
3. Metal-plate-connected wood trusses spanning 60ft or greater				1705.5.2	SIER		
3a. Verify that temporary installation restraint/bracing is installed in accordance with the approved truss submittal package.		X					
3b. Verify that permanent installation of individual truss member restraint/bracing is installed in accordance with the approved truss submittal package.		X					
O. SPECIAL CASES AS REQUIRED BY THE BUILDING OFFICIAL					SIER		
1.							
2. 🗌							
3.							
4. 🗆							
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At the time of these inspection, all items inspected were in accordance with the County approved building plans and the Virginia Uniform Statewide Building Code; a copy of the required building permit was posted on the construction site. Additionally, the erosion control devices were properly installed and maintained; or the department of Public Works was notified within one business day of the erosion control deficiency in accordance with Policy 1.16 Third Party Inspection Certification Program.