



STAFFORD COUNTY DEPARTMENT OF PUBLIC WORKS

BUILDING AND PERMITS DIVISION STATEMENT OF SPECIAL INSPECTIONS

VCC 2009/ CHAPTER 17

PROJECT: _____ AP# _____

ADDRESS: _____ VCC EDITION _____

CONSTRUCTION TYPE: _____

Height Stories	Total Area ft ²	Sprinkler (Y/N)	Fire Alarm (Y/N)	Occupancy Category	1604.5	Seismic Des. Cat	Prepared Fill (Y/N)	Problem Soils (Y/N)
_____	_____	_____	_____	_____	_____	_____	_____	_____

OWNER: _____ PHONE: _____

ADDRESS: _____ E-MAIL: _____

ARCHITECT: _____ LICENSE # _____

STRUCTURAL ENGINEER: _____ LICENSE# _____

GEOTECHNICAL ENGINEER: _____ LICENSE# _____

GENERAL CONTRACTOR: _____ LICENSE# _____

SPECIAL INSPECTIONS

ENGINEER OF RECORD: _____ LICENSE# _____

INSPECTION AND TESTING AGENCY: _____

This statement of special inspections is submitted as a condition for permit issuance in accordance with the Virginia *Construction Code*. It includes a schedule of special inspection applicable to this project.

The special inspections engineer of record shall keep records of specified inspections and testing and shall furnish copies of inspections and testing reports to Stafford County, VA. Building Official and to the appropriate register design professional of record.

Discrepancies from the approved plans and specifications and code violations observed during the conduct of special inspection services shall be brought to the immediate attention of the contractor for correction, to the attention of the Stafford County Building Official, and to the appropriate design professional of record.

A final completion report of special inspections documenting the specified special inspections and correction of any discrepancies and observed code violations noted in the inspection and testing reports shall be submitted to the Building Official prior to the final building inspection approved by County staff.

Prepared by _____ signature & date _____

Reviewed by Registered Design Professional: _____ signature & date _____

Building Owner's authorization: _____ signature & date _____

Building Official's acceptance: _____ signature & date _____

SPECIAL INSPECTION SCHEDULE

SCOPE OF SEVICE FOR VERIFICATION AND INSPECTION	Ref. Std.	IBC Ref.	Continuous (C) Periodic (P)	Start / Completion Date	Problem/ Corrective Action
Activity, Verification and Inspection					
<p><u>STEEL CONSTRUCTION</u></p> <p>1. HIGH STRENGTH BOLTS, NUT & WASHERS</p> <p>a.) ___ Identification markings to conform to ASTM standards specified in the approved construction documents.</p> <p>b.) ___ Manufacturer’s certificate of compliance required.</p>	AISC 360, Sec A3.3/ Applicable ASTM Std.	1704.3	(P)		
<p>2. HIGH STRENGTH BOLTING</p> <p>a.) ___ Bearing-type connections.</p> <p>b.) ___ Slip critical connections</p>	AISC 360, Sec M2.5	1704.3	(P) (C) (P)		
<p>3. STRUCTURAL STEEL</p> <p>a.) ___ Identification markings to conform to ASTM standards specified in the approved construction documents.</p> <p>b.) ___ Manufacturer’s certified mill tests reports</p>	ASTM A 6 ASTM- A568	1704.3	(P)		
<p>4. Weld Filler</p> <p>a.) ___ Identification markings to conform to ASTM standards specified in the approved construction documents.</p> <p>b.) ___ Manufacturer’s certificate of compliance required.</p>	AISC 360, Sec A3.5		(P)		
<p>5. WELDING</p> <p>a.) Structural Steel:</p> <p>1. ___ Complete and partial penetration groove welds</p> <p>2. ___ Multipass fillet welds.</p> <p>3. ___ Single pass fillet weld > 5/16”</p> <p>4. ___ Single pass fillet welds <= 5/16”</p> <p>5. ___ Floor and roof deck welds.</p> <p>b.) Reinforcing Steel:</p> <p>1. ___ Verification of weldability of reinforcing steel other than ASTM A70.</p> <p>2. ___ reinforcing steel-resisting flexural and axial forces intermediate and special moment frames and boundry elements of special reinforced concrete shear walls and shear reinforcement.</p> <p>3. ___ Shear reinforcement</p> <p>4. Other reinforcement</p>	AWS D1.1 AWS D1.3	1703.3.	1.) (C) 2.) (C) 3.) (C) 4.) (P) 5.) (P) ---- 2.) (C) 3.) (C) ----		
<p>6. STEEL FRAME JOIST DETAILS</p> <p>a.) ___ Details such as bracing and stiffening</p> <p>b.) ___ Member locations.</p> <p>c.) ___ Application of joint details at each connection.</p>		1704.3	(P)		
<p>7. STEEL FABRICATION</p> <p>a. ___ Fabricator is AISC certified.</p> <p>b. ___ Verify that fabricator maintains detailed fabrication and quality control procedures</p>		1704.2			

SPECIAL INSPECTION SCHEDULE

SCOPE OF SEVICE FOR VERIFICATION AND INSPECTION	Ref. Std. Used	IBC Ref.	Continuous (C) Periodic (P)	Start / Completion Date	Problem/ Corrective Action
MASONRY CONSTRUCTION 1704.5					
MASONRY LEVEL 1 SPECIAL INSPECTIONS	ACI 530/ ASCE 5/ TMS 402	1704.5			
1. As masonry construction begins, ensure compliance:			1.)- (P)		
a.__ Proportions of site-prepared for mortar. b.__ Construction of mortar joints. c.__ Location of reinforcement, connectors d.__ prestressed technique. e.__ Grade and size of prestressing tendon and anchorage.			a.)- (P) b.)- (P) c.)- (P) d.)- (P) e.)- (P)		
2. The inspection shall verify:					
a.__ Size and location of structural elements. b.__ Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction. c.__ Specific size, grade and type of reinforcement. d.__ Welding of reinforcing bars. e.__ Protection of masonry during cold weather (below 40F) or hot weather (above 90F). f.__ Application and measurement of prestressing force.		2104.3 2104.4	a.)- (P) b.)- (P) c.)- (P) d.)- (C) e.)- (P) f.)- (P)		
3. Prior to grout, verify the following to ensure compliance:					
a.__ Grout space is clean. b.__ Placement of reinforcement and connectors and prestressing tendons and anchorage. c.__ Proportions of site-prepared grout and prestressing grout for bonded tendons. d.__ Construction of mortar joints.			a.)- (P) b.)- (P) c.)- (P) d.)- (P)		
4. Grout placement verified to ensure compliance with code and construction document provisions.			(C)		
5. Preparation of any required grout or mortar specimens, and/or prisms shall be observed.			(C)		
6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.			(P)		

SPECIAL INSPECTION SCHEDULE

SCOPE OF SEVICE FOR VERIFICATION AND INSPECTION	Ref. Std. Used	IBC Ref.	Continuous (C) Periodic (P)	Start / Completion Date	Problem/ Corrective Action
MASONRY CONSTRUCTION 1704.5					
MASONRY LEVEL 2 SPECIAL INSPECTIONS	ACI 530/ ASCE 5/ TMS 402	1704.5			
1. From the beginning of masonry construction, the following shall be verified:					
a. __Proportions off site-prepared mortar, grout and prestressing grout for bonded tendons. b. __Placement of reinforcement, connectors and prestressing tendons and anchorages. c. __Placement of masonry units and construction of mortar joints. d. __Grout space prior to grouting e. __Placement of grout. F. __Placement of prestressed grout.			a.)- (P) b.)- (P) c.)- (P) d.)- (C) e.)- (C) f.)- (C)		
2. The inspection program shall verify:					
a. __ Size and location of structural steel. b. __ Type, size and location of anchors, including other details of anchorage of masonry to structural members, frames or other construction. c. __ Specific size, grade and type of reinforcement. d. __ Welding of reinforcing bars. e. __Protection of masonry during cold weather (below 40F) or hot weather (above 90F). f. __Application and measurement of prestressing force.			a.)- (P) b.)- (P) c.)- (P) d.)- (C) e.)- (P) f.)- (P)		
3. __Preparation of any required grout or mortar specimens and/or prism shall be observed.			(C)		
4. __Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.					
5. __Others					

SCOPE OF SERVICE FOR VERIFICATION AND INSPECTION	IBC Ref.	Continuous (C) Periodic (P)	Start / Completion Date	Problem/ Corrective Action
SOILS 1704.7	1704.7			
1. __ Controlled fill placed under Site Permit . 2. __ Controlled fill placed under This Permit. 3. __ Verify materials below footings are adequate to achieve the design bearing capacity. 4. __ Verify excavations are extended to proper depth and have reached proper material. 5. __ Perform classification and testing of controlled fill materials. 6. __ Verify use of proper materials, densities and lift thicknesses during placement and compaction of controlled fill. 7. __ Prior to placement of controlled fill, observe sub-grade and verify that the site has been prepared properly.		1.)- (---) 2.)- (---) 3.)- (P) 4.)- (P) 5.)- (P) 6.)- (C) 7.)- (P)		
Footings and Foundations				
1. __ Verify Subgrade bearing, footing depth, footing dimensions. 2. __ Verify installations of Drain tile-(gravity/ mechanical).		1.)- (P) 2.)- (P)		
Pile Foundations	1704.8			
1. __ Verify pile materials, sizes and length comply with requirements. 2. __ Determine capacities of test piles and the conduct additional load tests, as required. 3. __ Observe driving operations and maintain complete and accurate records as required. 4. __ 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. 5. __ For steel piles perform additional inspections in accordance with Section 1704.3 6. __ For concrete piles and concrete- filled piles, perform additional inspections in accordance with Section 1704.4. 7. __ for specialty piles, perform additional inspections as determined by registered designed professional in responsible charge. 8. __ For augered uncased piles and caisson piles, perform inspections in accordance with Section 1704.9.		1.)- (C) 2.)- (C) 3.)- (C) 4.)- (C) 5.)- (---) 6.)- (---) 7.)- (---) 8.)- (---)		
Pier Foundations	1704.9			
1. __ Observe drilling operations and maintain complete and accurate records for each pier. 2. __ Verify placement locations and plumbness, confirm pier diameters, bell diameters, length, embedment into bedrock and adequate end of bearing strata capacity. 3. __ For concrete piers, perform additional inspections in accordance with Section 1704.4. 4. __ For masonry piers, perform additional inspections in accordance with Section 1704.5.		1.)- (C) 2.)- (C) 3.)- (---) 4.)- (---)		

SPECIAL INSPECTION SCHEDULE

SCOPE OF SEVICE FOR VERIFICATION AND INSPECTION	Ref. Std. Used	IBC Ref	Continuous (C) Periodic (P)	Start / Completion Date	Problem/ Corrective Action
SPRAYED FIRE-RESISTANT MATERIALS		1704.10.			
1. __verify structural member surface conditions. 2. __Verify application of materials per manufacturer’s instructions. 3. __Verify thickness and density of applied materials. 4. __ verify the bond strength of applied materials.			1.)-(P) 2.)-(C) (P) 3.)-(P) 4.)-(P)		
MASTIC AND INTUMESCENT FIRE-RESISTANT COATINGS		1704.11			
1. __ Verify structural member deck surface conditions. 2. __Verify application of materials per manufacturer’s instructions. 3. __Verify thickness of applied materials. 4. __Verify the bond strength/ adhesion of applied materials.			1.)-(P) 2.)-(C) (P) 3.)-(P) 4.)-(P)		
EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS).		1704.12			
1. __ Install per County approved construction documents. 2. __ EIFS Contractor Card, prepared and signed by the EIFS installer after installation of the EIFS, must be attached to the Final Report of Special Inspections.			1.)-(---) 2.)-(---)		
SMOKE CONTROL SYSTEMS		1704.16			
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 1704.14			N/A		
5. __Others					
At the time of these inspections, 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, the erosion and sedimentation was found to be controlled and properly installed or maintained in accordance with the following (Check appropriate) <input type="checkbox"/> Approved lot grading plan. <input type="checkbox"/> Approved lot grading plan and sound engineering practice. <input type="checkbox"/> Sound engineering practice (only retaining walls that do not require lot grading plans). <input type="checkbox"/> Sound engineering practice (additions, alterations/ repairs).					
1.)Special Inspections Engineer of Record: _____ <div style="display: flex; justify-content: space-between; width: 80%; margin: 0 auto;"> Name company address </div> 2.)Inspection and Testing Agency: _____					

