

HAMPTON ROADS AREA STATEMENT OF SPECIAL INSPECTIONS

PROJECT

Marshall Courts Renovations - Phase IV
Newport News Redevelopment and Housing Auth.
Newport News, VA

PERMIT APPLICANT

PRIMARY RDP OF RECORD

Ms. Donna Phaneuf, VIA Design Architects, P.C.
150 Randolph St.
Norfolk, VA 23510, 757-627-1489

STRUCTURAL ENGINEER OF RECORD

Ms. Mary Lou Mortimer, NRW Engineering, P.C.
748 Lord Dunmore Dr. Suite 101
Va Beach, VA 23464, 757-474-0612

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the International Building Code (IBC) as stated in the Virginia Uniform Statewide Building Code (USBC). 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 Building Official, 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 Building Official and appropriate RDP(s). Interim reports shall be submitted to the Building Official, Owner, Contractor, and the appropriate RDP(s) according to the *Hampton Roads Regional Special Inspection Guidelines and Procedures*.

Jobsite safety is solely the responsibility of the contractor. 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 Uniform Statewide Building Code, and their area of expertise.**

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: _____

SER of Record :(Review and Acceptance of Schedule)

Signature / date: M. L. Mortimer 5/30/17

Printed Name: Mary Lou Mortimer

Building Official's Acceptance:

Signature / date: _____

Printed Name: _____

SCHEDULE OF SPECIAL INSPECTIONS PREPARED BY:



Virginia RDP Seal of SSI Preparer

Mary Lou Mortimer

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

Special Inspector:

Signature / date: M. L. Mortimer 5/30/17

Printed Name: Mary Lou Mortimer

SI Company Name: NRW Engineering, P.C.

SCHEDULE OF SPECIAL INSPECTIONS

MATERIAL/ACTIVITY	TYPE OF INSPECTION	APPLICABLE TO THIS PROJECT		
		Y/C/P/N	EXTENT/REFERENCE	AGENT COMPLETED
GENERAL				
Pre-construction conference	Meeting with parties listed in Section 6 of HRRSIGP to discuss Special Inspection procedures	Y	Scheduled by SI with the Contractor prior to commencement of work	1, 2
EARTHWORK				
Site preparation (building)	Field testing and inspection	P	Field Review; IBC 1705.6	2
Fill material (building)	Review submittals, field testing and inspection	P	Field Review; IBC 1705.6	2
Fill compaction (building)	In-place density tests, lift thickness	C	Field Review; IBC 1705.6	2
Excavation	Field inspection and verification of proper depth	P	Field Review; IBC 1705.6	2
Foundation sub-grade	Field inspection of foundation subgrade prior to placement of concrete	P	Field Review; IBC 1705.6	2
DEEP FOUNDATION ELEMENTS				
Materials	Review product, sizes, and lengths	N	Submittal and Field Review; IBC 1705.7, 1705.8, 1705.9	
Test piles	Monitor driving of test piles	N	Field Review; IBC 1704.8, .9 or .10	
Installation	Monitor drilling, placement, plumbness, driving of piles, including recording blows per foot, cut off, and tip elevation	N	Field Review; IBC 1705.2, 1705.3, 1705.7	
Load test	Monitor pile load test	N	Field Review; IBC 1704.8, .9 or .10	
CONCRETE				
Materials	Review product supplied versus certificates of compliance and mix design	Y	Submittal & Field Review; IBC 1705.3; ACI 318: Ch. 4 and 5; IBC 1904.2, 1910.2, 1903.3	1
Installation of reinforcing steel, including prestress tendons and anchor bolts as well as welding	Field inspection of placement	P	Submittal and Field Review; ACI 318:3.5, 3.5.2 3.8.6 & Ch. 7 8.1.3 and 21.2.8; AWS D1.4; IBC 1705.3, 1908.5, 1909.1, 1910.4	1
Formwork installation	Field inspection	P	Field Review; ACI 318: 6.1.1; IBC 1705.3	1
Concreting operations and placement	Field inspection of placement/sampling	C	Field Review; ACI 318: 5.6, 5.8, 5.9-10; ASTM C 172, C 31; IBC 1705.3, 1910.6, 1910.7, 1910.8, 1910.10	2
Concrete curing	Field inspection of curing process	P	Field Review; ACI 318: 5.11-13; IBC 1705.3, 1910.9	2
Concrete strength	Evaluation of concrete strength	P	Laboratory Testing; ACI 318: 6.2; IBC 1705.3	2
Application of forces for prestressed concrete	Field inspection	N	Field Review; ACI 318: 18.20; IBC 1705.3	
Grouting of prestress tendons	Field inspection	N	Field Review; ACI 318: 18.18.4; IBC 1705.3	

MATERIAL/ACTIVITY	TYPE OF INSPECTION	APPLICABLE TO THIS PROJECT			
		Y/C/P/N	EXTENT/REFERENCE	AGENT	COMPLETED
PRECAST CONCRETE					
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures**	Y	Submittal or Field Review; IBC 1705.3		
Erection and installation	Review submittals and as-built assemblies; Field inspection of in-place precast	Y	Submittal and Field Review; ACI 318; Ch. 16; IBC Table 1705.3		
MASONRY					
Materials	Review of products supplied versus certificate of compliance and material submitted	Y	Submittal & Field Review; ACI 530/ASCE 5; ACI 530.1/ASCE 6; IBC 1705.4, 1708		
Strength	Testing/review of strength	Y	Submittal & Field Review; ACI 530/ASCE 5; ACI 530.1/ASCE 6; IBC 1705.4, 2105.2.2, 2105.3		
Mortar and Grout	Inspection of proportioning and mixing. Placement of mortar only.	Y	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Grout placement, including prestressing grout	Verification to ensure compliance	Y	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Grout space	Verification to ensure compliance	Y	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6; TMS 602		
Mortar, grout, and prism specimens	Observe Preparation	Y	Field Review; IBC 1704.5, ACI 530.1; ASCE 6;		
Reinforcement, prestressing tendons, and connections	Inspect condition, size, location, and spacing	Y	Field Review; IBC 1704.5; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Welding of reinforcing bars	Inspection and testing of welds	Y	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Prestressing force	Verify application and measurement	Y	Field Review; IBC 1705.4; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Protection	Inspect procedures for protection during cold and hot weather	Y	Field Review; IBC 1705.4.; ACI 530/ASCE 5; ACI 530.1/ASCE 6		
Anchorage	Inspection of anchorages	Y	Field Review; ACI 530.1/ASCE 6, ASCE 6; IBC 1705.4; ACI 530/ASCE 5		
Masonry installation	Inspection of placement of masonry and joints	Y	Field Review; ACI 530/ASCE 5; ACI 530.1/ASCE 6; IBC 1705.4		

STRUCTURAL STEEL						
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures** or submit Certificate of Compliance	Y	IBC 1704.2.5, IBC 1704.2.5.1, 1704.2.5.2, 1705.2	1		
Bolts, nuts, and washers – materials	Material identification markings Review of Certificate of Compliance	Y	Submittal & Field Review; IBC 1705.2.1; IBC 1705.2.2; IBC 1706; ASTM; AISC 360, Section A3.3	1		
Bolts, nuts, washers – installation	Inspection of in-place high-strength bolts, snug-tight joints, pre-tensioned and bearing type, and slip critical connections	N	Submittal & Field Review; IBC 1705.2.1, 1705.2.2., AISC 360 Section M2.5			
Structural steel – materials	Material identification markings and review of Certificate of Compliance	Y	Submittal & Field Review; IBC 1705.2.1, 1705.2.2, 1706; ASTM A6, A568	1		
Structural steel details – installation	Inspection of member locations, structural details for bracing, connections, stiffening	P	Submittal & Field Review; IBC 1705.2.1, 1705.2.2, AISC 360	1		
Weld filler materials and welder certification	Review of identification markings, certificate of compliance, and welder certifications	Y	Submittal & Field Review; ASTM AISC 360 A3.5	1		
Welds	Inspection and testing of welds	P	Field Review; IBC 1705.2.2.1: AWS D1.1, D1.3	2		
Cold-formed metal deck – materials	Review of identification marking manufacturer's certified test results	Y	Submittal and Field Review; IBC 1705.2.2; ASTM			
Cold-formed metal deck – installation	Review laps and welds	N	Submittal and Field Review; IBC 1705.2.2, AWS D1.3			
Cold-formed light frame construction – welds	Review welding operation	N	IBC 1705.10, 1705.10.2, 1705.10.3			
Cold form light frame construction wind resistance – screws	Review screw attachment bolting, anchoring hold downs, bracing, diaphragms, struts	N	Field Review; IBC 1705.10, 1705.10.2, 1705.10.3			
Cold-formed steel trusses spanning 60' or greater	Inspection of temporary and permanent restraints/bracing	N	Field review IBC 1705.2.2.2			
WOOD						
Verify fabrication/quality control procedures	In-plant inspection of fabrication/quality control procedures** or submit Certificate of Compliance	Y	Submittal or Field Review; IBC 1704.2.5, 1705.5, 1705.5.2	1		
Metal plate connected wood/metal trusses spanning 60' or more	Review approved submittal and installation of restraint/bracing	Y	Field Review; IBC 1704.2.5, 1705.5, 1705.2			
Joist Hangers – Materials/Installation	Review manufacturer's material and test standards, review submittal and as-built assemblies; Inspection of sheathing, framing size, nail and staple diameter and length, number of fastener lines, and fastener spacing.	Y	Field Review; IBC 1711, ASTM D 1761 IBC 1705.5, 1705.5.1	1		
High-Load Diaphragms – Installation		N				
Wood Shear Walls – installation	Review nailing, bolting, anchoring, fastening, diaphragms, struts, braces, and hold downs when fasteners are ≤ 4" on center.	N	Field Review; IBC 1705.10.1			

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	Y	Submittal and Field Review; IBC 1609.1.2, 1704.5.2, 1705.10, 1705, 1705.4, 1705.4.1, 1705.4.2, 1710
SEISMIC FORCE RESISTING SYSTEMS			
Seismic requirements	Review of the designated seismic systems and seismic force resistance systems	Y	Submittal and Field Review; IBC 1613, 1704.5.1, 1705.11, 1705.12; 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	Y	Field Review; IBC 1705.17, 1705.17.1, 1705.17.2
SPRAYED FIRE RESISTIVE MATERIAL, FIRE RESISTANT PENETRATIONS; JOINTS, MASTIC AND INTERMESCENT FIRE RESISTANT COATING			
Structural member surface conditions	Field Review of surface conditions prior to application	Y	AWCI 12-B; IBC 1705.13, 1705.13.2
Application/thickness/density/bond strength	Field review of application operations, thickness, and density	Y	ASTM E605, AWCI 12-B; IBC 1705.13.2; 1705.13.1, 1705.13.3, 1705.13.4; IBC 1705.13.5, 1705.13.6
Mastic & Intumescent Fire Resistant Coating	Field review of application operations and thickness	Y	AWCI 12-B; IBC 1705.14
EXTERIOR INSULATION AND FINISH SYSTEMS (EIFS)			
Application	Field Review of application/installation	P	ASTM E2570, IBC 1705.15
SPECIAL CASES			
Alternative Materials and Systems	As requested by Building Official, review system and installation	Y	IBC 1705.1.1
INSPECTION AGENTS			
1. Special Inspector:	<i>NRW Engineering, P.C.</i>	FIRM	ADDRESS
2. Materials and Testing Laboratory:	<i>NRW Engineering, P.C.</i>	<i>NRW Engineering, P.C.</i>	<i>718 Lead Director Dr. VABead, WA 294164</i>
3. Special Inspector Smoke Control System:			<i>777-474-0612</i>
4. (Additional Agents?)			

Note: * The Qualifications of the Special Inspector and Testing Laboratories are subject to the Approval of the Building Official.

** Inspection of quality control procedures required only if fabricator is not regularly inspected by an independent inspection agency.

***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 VCC Section 1705.11