



# SCHEDULE OF SPECIAL INSPECTIONS

Code Enforcement Project No:		Permit No:	
Project Name:		Owner:	
Project Address:		Date:	
RDPIRC:			
SI FIRM:			

**Instructions for completing the Schedule of Special Inspections Form**

1. Indicate the Inspection Type (IT-#) required for this project per NCBC sections 1704 and 1705.
2. Indicate whether Special Inspections are Continuous (C), Periodic (P) or both by checking the appropriate box.
3. Insure the scope meets NCBC section 1704 and 1705 as well as other applicable standards for each Inspection Type.

**Note:** This form and the Statement of Special Inspections **must be included on a plan sheet** as part of the plan submittal for this project.

The following Special Inspections are required for this project:(C= continuous, P=periodic)

**IT-1 SPECIAL CASES** (Refer to NCBC Section 1705.1.1)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Construction materials and systems that are alternatives to materials and systems prescribed by the 2018 NCBC	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.1.1, #1	
<input type="checkbox"/>	Unusual design applications of materials described in the 2018 NCBC	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.1.1, #2	
<input type="checkbox"/>	Materials and systems required to be installed in accordance with additional manufacturer's instructions that prescribe requirements not contained in this code or in standards referenced by this code			NCBC 1705.1.1, #3	
<input type="checkbox"/>	Special Events (as decided / required by Code Enforcement)	<input type="checkbox"/>	<input type="checkbox"/>	Per Mecklenburg County Policy	
<input type="checkbox"/>	Retaining Walls	<input type="checkbox"/>	<input type="checkbox"/>		

**IT-2 STEEL CONSTRUCTION** (Refer to Section 1705.2 and the Exception; Table 1705.2.3)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Structural Steel	<input type="checkbox"/>	<input type="checkbox"/>	AISC 360	NCBC 1705.2.1 & Exception
<input type="checkbox"/>	Cold-formed Steel Deck	<input type="checkbox"/>	<input type="checkbox"/>	SDI QA/QC	NCBC 1705.2.2
<input type="checkbox"/>	Open-web Steel Joists and Joist Girders	<input type="checkbox"/>	<input type="checkbox"/>		NCBC 1705.2.3 & Table
	1. Installation of open-web steel joists and joist girders				
<input type="checkbox"/>	a. End connections – welding or bolted		<input type="checkbox"/>	SJI specifications listed in Section 2207.1	
	b. Bridging – horizontal or diagonal				
<input type="checkbox"/>	1. Standard bridging		<input type="checkbox"/>	SJI specifications listed in Section 2207.1	
<input type="checkbox"/>	2. Bridging that differs from the SJI specifications listed in Section 2207.1		<input type="checkbox"/>		
<input type="checkbox"/>	Cold-formed steel trusses spanning 60 feet or greater		<input type="checkbox"/>		NCBC 1705.2.4

**IT-3 CONCRETE CONSTRUCTION** (Refer to NCBC Section & Table 1705.3; Ch. 19)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	1. Inspect reinforcement, including pre-stressing tendons and verify placement	<input type="checkbox"/>	<input type="checkbox"/>	ACI 318 Ch 20, 25.2, 25.3, 26.6.1 – 26.76.3; & NCBC 1908.4	
<input type="checkbox"/>	2. Reinforcing Bar welding: a. Verify weldability of reinforcing bars other than ASTM A706; b. Inspect single-pass fillet welds, maximum 5/16" ; and c. Inspect all other welds.	<input type="checkbox"/>	<input type="checkbox"/>	AWS D1.4; ACI 318:26.6.4	
<input type="checkbox"/>	3. Inspect anchors cast in concrete.		<input type="checkbox"/>	ACI 318: 17.8.2	
<input type="checkbox"/>	4. Inspect anchors post-installed in hardened concrete members a. Adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads b. Mechanical anchors and adhesive anchors not defined in 4.a.	<input type="checkbox"/>	<input type="checkbox"/>	ACI 318: 17.8.2.4  ACI 318: 17.8.2	

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<input type="checkbox"/>	5. Verify use of required design mix.		<input type="checkbox"/>	ACI 318: Ch. 19, 26.4.3, 26.4.4, NCBC 1904.1, 1904.2. 1908.2, 1908.3	
<input type="checkbox"/>	6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete		<input type="checkbox"/>	ASTM C 172; ASTM C 31; ACI 318: 26.4, 26.12	
<input type="checkbox"/>	7. Inspect concrete and shotcrete placement for proper application techniques		<input type="checkbox"/>	ACI 318: 26.5, NCBC 1908.6, 1908.7. 1908.8	
<input type="checkbox"/>	8. Verify maintenance of specified curing temperature and techniques		<input type="checkbox"/>	ACI 318: 26.5.3-26.5.5 NCBC 1908.9	
<input type="checkbox"/>	9. Inspect of pre-stressed concrete for: a. Application of pre-stressing forces; and b. Grouting of bonded pre-stressing tendons		<input type="checkbox"/> <input type="checkbox"/>	ACI 318: 26.10	
<input type="checkbox"/>	10. Inspect erection of precast concrete members		<input type="checkbox"/>	ACI 318: Ch. 26.8	
<input type="checkbox"/>	11. Verify 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		<input type="checkbox"/>	ACI 318: 26.11.2	
<input type="checkbox"/>	12. Inspect formwork for shape, location and dimensions of the concrete members being formed		<input type="checkbox"/>	ACI 318:26.11.1.2(b)	

**IT-4 MASONRY** (Refer to NCBC Section 1705.4)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Masonry Construction	<input type="checkbox"/>	<input type="checkbox"/>	TMS 402/ ACI 530/ ASCE 5 and TMS 602/ACI 530.1/ASCE 6,	See NCBC 1705.4 Exceptions
<input type="checkbox"/>	Empirically designed masonry (per 2109), glass unit masonry (per 2110) or masonry veneer (per Ch 14) in Risk Category IV	<input type="checkbox"/>	<input type="checkbox"/>	TMS 402/ ACI 530/ ASCE 5, Level B Quality Assurance	

**IT-5 WOOD** (Refer to NCBC Section 1705.5)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Prefabricated wood structural elements and assemblies to be in accordance with	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1704.2.5	

	the requirements set forth in NCBC Section 1704.2.5				
<input type="checkbox"/>	High Load Diaphragms	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.5.1 & 1704.2	
<input type="checkbox"/>	Temp & permanent bracing on metal-plate-connected trusses spanning $\geq 60'$	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.5.2	

### IT-6 SOILS (Refer to NCBC Table 1705.6 & Section 1705.6)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	1. Verify materials below shallow foundation are adequate to achieve the design bearing capacity		<input type="checkbox"/>	NCBC 1705.6; geotechnical report & construction documents from RDPIRC	See NCBC 1705.6 exception
<input type="checkbox"/>	2. Verify excavations are extended to proper depth and have reached proper material		<input type="checkbox"/>	NCBC 1705.6; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	3. Perform classification and testing of compacted fill materials		<input type="checkbox"/>	NCBC 1705.6; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill	<input type="checkbox"/>		NCBC 1705.6; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	5. Prior to placement of compacted fill, inspect sub-grade and verify that site has been prepared properly		<input type="checkbox"/>	NCBC 1705.6; geotechnical report & construction documents from RDPIRC	

### IT-7 DRIVEN DEEP FOUNDATIONS (Refer to NCBC Section 1705.7)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	1. Verify element materials sizes and lengths comply with the requirements	<input type="checkbox"/>		NCBC 1705.7; geotechnical report & construction documents from RDPIRC	

<input type="checkbox"/>	2. Determine capacities of test elements and conduct additional load tests as required.	<input type="checkbox"/>		NCBC 1705.7; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	3. Inspect driving operations and maintain complete and accurate records for each element	<input type="checkbox"/>		NCBC 1705.7; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	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 damage to foundation element	<input type="checkbox"/>		NCBC 1705.7; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	5. For steel elements, perform additional inspections in accordance with Section 1705.2			NCBC 1705.7; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	6. For concrete elements and concrete-filled elements, perform tests and additional special inspections in accordance with Section 1705.2			NCBC 1705.7; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	7. For specialty elements, perform additional inspections as determined by the registered design professional in responsible charge			NCBC 1705.7; geotechnical report & construction documents from RDPIRC	

### IT 8 CAST-IN-PLACE DEEP FOUNDATIONS (Refer to NCBC Section 1705.8)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	1. Inspect drilling operations and maintain complete and accurate records for each element	<input type="checkbox"/>		NCBC 1705.8; geotechnical report & construction documents from RDPIRC	
<input type="checkbox"/>	2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if	<input type="checkbox"/>		NCBC 1705.8; geotechnical report &	

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	applicable), lengths, embedment into bedrock (if applicable) and adequate end-bearing strata capacity. Record concrete or grout volumes			construction documents from RDPIRC	
<input type="checkbox"/>	3. For concrete elements, perform tests and additional special inspections in accordance with section 1705.3	<input type="checkbox"/>		NCBC Section 1705.8; geotechnical report & construction documents from RDPIRC	

### IT 9 HELICAL PILES (Refer to NCBC Sections 1705.9)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Inspect during installation. Record: <ol style="list-style-type: none"> <li>Installation equipment used</li> <li>Pile dimensions</li> <li>Tip elevations</li> <li>Final depth</li> <li>Final installation torque</li> <li>Other pertinent installation data as req'd by RDPIRC</li> </ol>	<input type="checkbox"/>		NCBC Section 1705.9; geotechnical report & construction documents from RDPIRC	

### IT 10 FABRICATED ITEMS (Refer to NCBC Sections 1705.10 & 1704.2.5)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Inspect during fabrication <ol style="list-style-type: none"> <li>Structural,</li> <li>Load-bearing or</li> <li>Lateral load-resisting members or assemblies</li> </ol>	<input type="checkbox"/>	<input type="checkbox"/>	NCBC Section 1705.10 or 1704.2.5.	SI are not required if the fabricator meets 1704.2.5, #1 or #2; or if the fabricator is approved per 1704.2.5.1

### IT 11 WIND RESISTANCE (Refer to NCBC Sections 1705.11; 1705.11.1 – 1705.11.3; & 1609.3.1)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
	Only required in the following instances: <ol style="list-style-type: none"> <li>In wind Exposure Category B, where <math>V_{asd}</math> is <math>\geq</math> 120 MPH (per 1609.3.1), or</li> <li>In wind Exposure Category Cor D, where <math>V_{asd}</math> is <math>\geq</math> 110 MPH (per 1609.3.1)</li> </ol>				
<input type="checkbox"/>	Structural Wood <ul style="list-style-type: none"> <li>Gluing elements of the main windforce-resisting system</li> </ul>	<input type="checkbox"/>		NCBC 1705.11.1	Not required for wood shear walls, shear panels and

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	<ul style="list-style-type: none"> <li>Nailing, bolting, anchoring, etc of elements of the main windforce-resisting system</li> </ul>		<input type="checkbox"/>		diaphragms, including nailing, bolting, anchoring and other fastening to other elements of the MWR system, where the fastener spacing of the sheathing is > 4" oc
	<p>Cold-formed steel light frame constr.</p> <ul style="list-style-type: none"> <li>Welding operations of elements of the MWRS</li> <li>Screw attachment, bolting, anchoring and other fastening of elements of the MWRS including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs</li> </ul>		<input type="checkbox"/> <input type="checkbox"/>	NCBC 1705.11.2	Not required for shear walls and diaphragms, where either of the following applies: <b>#1.</b> Sheathing is gypsum bd or fiberboard; <b>#2.</b> Sheathing is wood structural panel or steel sheets on one side of the shear wall, panel or diaphragm assembly and the fastener spacing of the sheathing is > 4" o.c.
<input type="checkbox"/>	<p>Wind-resisting components</p> <ol style="list-style-type: none"> <li>Roof covering, roof deck and roof framing connections</li> <li>Exterior wall covering and wall connections to roof and floor diaphragms and framing</li> </ol>		<input type="checkbox"/> <input type="checkbox"/>	NCBC 1705.11.3	

## IT-12 SEISMIC RESISTANCE (Refer to NCBC Sections 1705.12)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
	<p>SI in sections 1705.12.1 – 1705.12.9 are not required for structures designed and constructed in accordance with one of the following:</p> <ol style="list-style-type: none"> <li>Structure is light-frame construction, <math>S_{DS}</math> is not greater than 0.5; and building height is not greater than 35'.</li> <li>SFRS of the structure is reinforced masonry or reinforced concrete, <math>S_{DS}</math> is not greater than 0.5; and building height is not greater than 25'.</li> </ol>				
<input type="checkbox"/>	Structural steel in the seismic force-resisting systems of buildings and structures assigned to SDC B, C, D, E or F	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.12.1.1; AISC 341	Not required in the SFRS of buildings or structures in SDC B or C not specifically detailed for seismic resistance, with

					response modification coefficient, $R, \leq 3$
<input type="checkbox"/>	Structural steel elements in the seismic force-resisting systems of buildings or structures assigned to SDC B, C, D, E or F other than those covered in Section 1705.12.1.1, including struts, chords and foundation elements	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.12.1.2; AISC 341	Not required in the SFRS of buildings and structures in SDC B or C with response modification coefficient, $R, \leq 3$
<input type="checkbox"/>	Structural Wood in the seismic force-resisting systems of structures assigned to SDC C, D, E or F			NCBC 1705.12.2	These SI are not required for wood shear walls, shear panels and diaphragms, including nailing, bolting, anchoring and other fastening to other elements of the SFRS when the fastener spacing of the sheathing is $> 4''$ oc
<input type="checkbox"/>	1. Field gluing operations of elements of seismic force-resisting system	<input type="checkbox"/>			
<input type="checkbox"/>	2. Nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system		<input type="checkbox"/>		Includes wood shear walls, wood diaphragms, drag struts braces, panels & hold-down's.
<input type="checkbox"/>	Cold-formed steel light frame construction in the SFRS of structures in SDC C, D, E, or F			NCBC 1705.12.3	Not required for shear walls and diaphragms, including screw installation, bolting, anchoring and other fastening to components of the SFRS where either of the following applies: <b>#1.</b> Sheathing is gypsum bd or fiberboard; <b>#2.</b> Sheathing is wood structural panel or steel sheets on one side of the shear wall, panel or diaphragm assembly and the fastener spacing of the sheathing is $> 4''$ o.c
<input type="checkbox"/>	1. Welding operations of elements of the SFRS		<input type="checkbox"/>		
<input type="checkbox"/>	2. Screw attachment, bolting, anchoring, and other fastening of elements of the SFRS including shear walls, braces, diaphragms, collectors (drag struts) and hold-downs		<input type="checkbox"/>		
<input type="checkbox"/>	Designated seismic systems for structures assigned to Seismic Design Category C, D, E or F	<input type="checkbox"/>	<input type="checkbox"/>	ASCE 7, Section 13.2.2	

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	Verify the label, anchorage and mounting conform to the certificate of compliance				
<input type="checkbox"/>	Architectural components – erection and fastening of exterior cladding, interior and exterior nonbearing walls and interior and exterior veneer in structures assigned to Seismic Design Category D, E or F		<input type="checkbox"/>	NCBC 1705.12.5	Not required for: #1. Exterior cladding, interior and exterior nonbearing walls and interior and exterior veneer ≤ 30' in height above grade or walking surface #2. Exterior cladding and interior and exterior veneer weighing 5 psf or less #3. Interior nonbearing walls weighing 15 psf or less
<input type="checkbox"/>	Access floors – anchorage in structures assigned to Seismic Design Category D, E or F		<input type="checkbox"/>	NCBC 1705.12.5.1	
<input type="checkbox"/>	Plumbing, Mechanical and electrical components:				
<input type="checkbox"/>	Seismic Design Categories C, D, E or F:		<input type="checkbox"/>	NCBC 1705.12.6, #1	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Anchorage of electrical equipment for emergency and standby power</li> </ul>		<input type="checkbox"/>	NCBC 1705.12.6, #3	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Installation and anchorage of piping systems for Hazardous materials and associated mechanical units</li> </ul>		<input type="checkbox"/>	NCBC 1705.12.6, #4	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Installation and anchorage of ductwork for Hazardous materials</li> </ul>		<input type="checkbox"/>	NCBC 1705.12.6, #5	
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Installation and anchorage of vibration isolation systems where the required clearance is ≤ 1/4" between the equipment support frame and restraint</li> </ul>		<input type="checkbox"/>	NCBC 1705.12.6, #2	
<input type="checkbox"/>	Seismic Design Categories E or F:				
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Anchorage of other electrical equipment</li> </ul>		<input type="checkbox"/>		
<input type="checkbox"/>	Storage racks ≥ 8' in height in Seismic Design Categories D, E or F		<input type="checkbox"/>	NCBC 1705.12.7	
<input type="checkbox"/>	Seismic isolation systems in seismically isolated structures assigned to SDC B, C, D, E, or F		<input type="checkbox"/>	NCBC 1705.12.8	
<input type="checkbox"/>	Installation of cold-formed steel special bolted moment frames in the SFRS of structures assigned to SDC D, E, or F		<input type="checkbox"/>	NCBC 1705.12.9	

**IT 13 TESTING FOR SEISMIC RESISTANCE (Refer to Section 1705.13)**

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Structural Steel <ul style="list-style-type: none"> <li>Nondestructive testing for seismic resistance for SFRS for buildings assigned to SDC B, C, D, E or F</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.13.1  NCBC 1705.13.1.1 or AISC 341	Exception: SDC B or C buildings with a response modification coefficient $\leq 3$
<input type="checkbox"/>	Structural Steel Elements <ul style="list-style-type: none"> <li>Nondestructive testing for seismic resistance of structural steel elements in the SFRS of buildings and structures assigned to SDC B, C, D, E or F if not covered in 1705.13.1.1.</li> </ul>	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.13.1.2  AISC 341	Exception: SDC B or C buildings with a response modification coefficient $\leq 3$ .
<input type="checkbox"/>	Nonstructural Components for structures assigned to SDC B, C, D, E or F where the requirements of Section 13.2.1 of ASCE 7 for nonstructural components, supports or attachments are met by seismic qualification as specified in Item 2 therein, the RDPIRC shall specify on the approved construction documents the requirements for seismic qualification by analysis, testing or experience data.	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.13.2	
<input type="checkbox"/>	Designated seismic systems for structures assigned to SDC C, D, E or F that are subject to the requirements of Section 13.2.2 of ASCE 7 for certification, the RDPIRC shall specify on the approved construction documents the requirements to be met by analysis, testing or experience data.	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.13.3	
<input type="checkbox"/>	Seismic Isolation Systems in Seismically isolated structures assigned to SDC B, C, D, E, or F			NCBC 1705.13.4; ASCE 7, section 17.8	

**IT-14 SPRAYED FIRE-RESISTANT MATERIALS (Refer to NCBC Sections 1705.14)**

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Sprayed fire-resistant materials				
<input type="checkbox"/>	1. Floor, roof and wall assemblies	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.14.4.2 & ASTM E605	4/1000sf
<input type="checkbox"/>	2. Cellular Decks	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.14.4.3	4 @12"x12"
<input type="checkbox"/>	3. Fluted Decks	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.14.4.4	4 @12"x12"
<input type="checkbox"/>	4. Structural members	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.14.4.5	25%
<input type="checkbox"/>	5. Beams and Girders	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.14.4.6	9@12"
<input type="checkbox"/>	6. Joists and Trusses	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.14.4.7	7@12"

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<input type="checkbox"/>	7. Wide-flanged columns	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.14.4.8	12@12"
<input type="checkbox"/>	8. Hollow structural section and pipe columns	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.14.4.9	4@12"

**IT 15 MASTIC AND INTUMESCENT FIRE-RESISTANT COATING 1705.15**

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Mastic and Intumescent fire-resistant coating applied to structural elements and decks	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.15; AWCI 12-B	

**IT-16 EXTERIOR INSULATION & FINISH SYSTEM (EIFS)**

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	EIFS application	<input type="checkbox"/>	<input type="checkbox"/>		Not required for: 1. EIFS applications installed over a water-resistive barrier that drains to the exterior 2. EIFS applications installed over masonry or concrete walls
<input type="checkbox"/>	Water-resistive barrier coating when installed over a sheathing substrate	<input type="checkbox"/>	<input type="checkbox"/>	ASTM E2570	

**IT 17 FIRE-RESISTANT PENETRATIONS AND JOINTS** (Refer to NCBC Sections 1705.17; 1705.17.1; & 1705.17.2)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
	Applies to all new high-rise buildings and all new buildings in Risk Category III or IV. Additions, Changes of Use, NCEBC Ch 14 evaluated buildings and Level 3 Alterations within existing high-rises and / or Risk Category III or IV buildings will also require these special inspections.				
<input type="checkbox"/>	Inspection of tested and listed penetration firestop systems:	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.17.1; ASTM E2174-10ae1	
<input type="checkbox"/>	a. Through penetrations:				
<input type="checkbox"/>	1. Verify materials before installation				
<input type="checkbox"/>	2. Verify against design (Cutsheet or EJ)				

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<input type="checkbox"/>	3. For <b>each type</b> of firestop,				10% of installations per floor or per area. Area = 1sf – 10,000 sf
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Witness 10% of installations, or</li> </ul>				
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Destructive testing on 2% of installations</li> </ul>				2% of installations per floor or per area. Area = 1sf – 10,000 sf
<input type="checkbox"/>	4. Verify all firestops are installed				
<input type="checkbox"/>	b. Membrane penetrations:				
<input type="checkbox"/>	1. Verify materials before installation				
<input type="checkbox"/>	2. Verify against design (Cutsheet or EJ)				
<input type="checkbox"/>	3. For <b>each type</b> of firestop,				10% of installations per floor or per area. Area = 1sf – 10,000 sf
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Witness 10% of installations or</li> </ul>				
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Destructive testing on 2% of installations</li> </ul>				2% of installations per floor or per area. Area = 1sf – 10,000 sf
<input type="checkbox"/>	4. Verify all firestops are installed				
<input type="checkbox"/>	Installation of tested and listed fire-resistant joint systems:	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.17.2; ASTM E2393-10a	
<input type="checkbox"/>	1) Verify materials before installation				
<input type="checkbox"/>	2) Verify against design (cutsheet or EJ)				
<input type="checkbox"/>	3) For <b>each type</b> of joint system,				
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Witness installation of 5% min of total lineal feet of joint system being installed, or</li> </ul>				
<input type="checkbox"/>	<ul style="list-style-type: none"> <li>Destructive testing, disassembly or visual inspection at the rate of at least 1 sample for every 500 lineal feet of the joint system</li> </ul>				

**IT-18 SMOKE CONTROL** (Refer to NCBC Section 1705.18)

Check if required	Inspection Task	C	P	Standard	Notes / Comments
<input type="checkbox"/>	Inspection of smoke control system	<input type="checkbox"/>	<input type="checkbox"/>	NCBC 1705.18	