

REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION - TABLE 1704.4				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD (a)	BC-NYS REFERENCE
1. INSPECTION OF REINFORCING STEEL INCLUDING, PRESTRESSING TENDONS, AND PLACEMENT	–	X	ACI 318: 3.5, 7.1-7.7	1913.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1704.3, ITEM 5B	–	–	AWS D1.4 ACI 318: 3.5.2	–
3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED	X	–	ACI 318: 8.1.3, 21.2.8	1911.5, 1912.1
4. INSPECTIONS OF ANCHORS INSTALLED IN HARDENED CONCRETE.	–	X	ACI 318: 3.6.6, 8.1.3, 21.2.8	1912.1
5. VERIFYING USE OF REQUIRED DESIGN MIX	–	X	ACI 318: Ch. 4, 5.2-5.4	1904.2.2, 1913.2, 1913.3
6. SAMPLING FRESH CONCRETE AND PERFORMING SLUMP, AIR CONTENT AND DETERMINING THE TEMPERATURE OF FRESH CONCRETE AT THE TIME OF MAKING SPECIMENS FOR STRENGTH TESTS	X	–	ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1913.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	–	ACI 318: 5.6, 5, 10	1913.6, 1913.7, 1913.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	–	X	ACI 318: 5.11-5.13	1913.9
9. INSPECTION OF PRESTRESSED CONCRETE:				
a. APPLICATION OF PRESTRESSING FORCES.	X	-	ACI: 318: 18.20	–
b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X	–	ACI 318: 18.18.4	–
10. ERECTION OF PRECAST CONCRETE MEMBERS	–	X	ACI 318: Ch. 16	–
11. 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	1906.2
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	–	X	ACI 318: 6.1.1	–

a. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION - TABLE 1704.3					
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD (a)	IBC REFERENCE	
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS AND WASHERS.					
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	–	X	AISC 360, SECTION A3.3 & APPLICABLE ASTM MATERIAL STANDARDS	–	
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	–	X	–	–	
2. INSPECTION OF HIGH STRENGTH BOLTING:					
a. SNUG-TIGHT CONNECTORS	–	X	AISC 360, SECTION M2.5	1704.3.3	
b. BEARING TYPE CONNECTORS	–	X			
c. SLIP-CRITICAL CONNECTIONS	X	–			
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND COLD-FORMED STEEL DECK:					
a. FOR STRUCTURAL STEEL, IDENTIFICATION MARKINGS TO CONFORM TO AISC 360	–	X	AISC 360, SECTION M2.5	–	
b. FOR OTHER STEEL, IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS	–	X	APPLICABLE ASTM MATERIAL STANDARDS		
c. MANUFACTURER'S CERTIFIED TEST REPORTS	–	X	–		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:					
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS	–	X	AISC 360, SECTION A3.5 AND APPLICABLE AWS AS DOCUMENTS	–	
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	–	X	–	–	
5. INSPECTION OF WELDING:					
a. STRUCTURAL STEEL AND COLD-FORMED STEEL DECK			AWS D1.1	1704.3.1	
1. COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	X	–			
2. MULTI-PASS FILLET WELDS	X	–			
3. SINGLE-PASS FILLET WELDS > 5/16"	X	–			
4. PLUG AND SLOT WELDS	X	–			
4. SINGLE-PASS FILLET WELDS < 5/16"	–	X		AWS D1.3	–
5. FLOOR AND DECK WELDS	–	X			
b. REINFORCING STEEL			AWS D1.4 ACI 318: 3.5.2	–	
1. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706	–	X			
2. REINFORCING STEEL-RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL WALLS OF CONCRETE, AND SHEAR REINFORCEMENT	X	–			
3. SHEAR REINFORCEMENT	X	–			
4. OTHER REINFORCING STEEL	–	X			
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE:					
a. DETAILS SUCH AS BRACING AND STIFFENING	–	X	–	1704.3.2	
b. MEMBER LOCATIONS	–	X			
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION	–	X			

a. WHERE APPLICABLE, SEE ALSO SECTION 1707.1, SPECIAL INSPECTION FOR SEISMIC RESISTANCE.

LEVEL 1 REQUIRED VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION - TABLE 1704.5.1					
VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS	PERIODIC	IBC SECTION	TMS 402/ACI 530/ASCE 5(a)	TMS 602/ACI 530.1/ASCE 6(a)
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS SHALL BE VERIFIED	–	X	–	–	Art. 1.5
2. VERIFICATION OF F _m AND F _{3ac} PRIOR TO CONSTRUCTION EXCEPT WHERE SPECIFICALLY EXEMPTED BY THIS 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, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. PROPORTIONS OF SITE PREPARED MORTAR	–	X	–	–	Art. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS	–	X	–	–	Art. 3.3B
c. LOCATION OF REINFORCEMENT, CONNECTORS, PRESTRESSING TENDONS, & ANCHORAGES	–	X	–	–	Art. 3.4, 3.6A
d. PRESTRESSING TECHNIQUE	–	X	–	–	Art. 3.6B
e. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES	–	X	–	–	Art. 2.4B, 2.4H
5. DURING CONSTRUCTION THE INSPECTION PROGRAM SHALL VERIFY:					
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	–	X	–	–	Art. 3.3F
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	–	X	–	Sec. 1.2.2(e), 1.16.1	–
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES	–	X	–	Sec. 1.15	Art. 2.4, 3.4
d. WELDING OF REINFORCING BARS	X	–	–	Sec. 2.13.7.2 AND 3.3.3.4(b)	–
e. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE 40 DEGREES F) OR HOT WEATHER (TEMPERATURE ABOVE 90 DEGREES F)	–	X	Sec 2104.3, 2104.4	–	Art. 1.8C, 1.8D
f. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	–	–	–	Art. 3.6B
6. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. GROUT SPACE IS CLEAN	–	X	–	–	Art. 3.2D
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES	–	X	–	Sec. 1.13	Art. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	–	X	–	–	Art. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS	–	X	–	–	Art. 3.3B
7. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE:	X	–	–	–	Art. 3.5
a. GROUTING OF PRESTRESSING BONDED TENDONS	X	–	–	–	Art. 3.6C
8. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	X	–	Sec. 2105.2.2, 2105.3	–	Art. 1.4

a. THE SPECIFIC STANDARDS REFERENCED ARE THOSE LISTED IN CHAPTER 35.

LEVEL 2 REQUIRED VERIFICATION INSPECTION OF MASONRY CONSTRUCTION - TABLE 1704.5.3					
VERIFICATION AND INSPECTION	FREQUENCY OF INSPECTION		REFERENCE FOR CRITERIA		
	CONTINUOUS	PERIODIC	IBC SECTION	ACI 530.1/ASCE 5/ TMS 402(a)	ACI 530.1/ ASCE 6/ TMS 602(a)
1. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS	–	X	–	–	Art. 1.5
2. VERIFICATION OF F _m AND F _{3ac} PRIOR TO CONSTRUCTION EVERY 5000 SQUARE FEET DURING CONSTRUCTION	–	X	–	–	Art. 1.4B
3. VERIFICATION OF PROPORTIONED OF MATERIALS IN PREMIXED OR PREBLENDED MORTAR AND GROUT AS DELIVERED TO THE SITE.	–	X	–	–	Art. 1.5B
4. VERIFICATION OF SLUMP FLOW AND VSI AS DELIEVERED TO THE SITE FOR SELF-CONSOLIDATING GROUT.	X	–	–	–	Art. 1.5B,1.b.3
5. THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:					
a. PROPORTIONS OF SITE-PREPARED MORTAR, GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	–	X	–	–	Art. 2.6A
b. PLACEMENT OF MASONRY UNITS AND CONSTRUCTION OF MORTAR JOINTS	–	X	–	–	Art. 3.3B
c. PLACEMENT OF REINFORCEMENT, CONNECTORS AND PRESTRESSING TENDONS AND ANCHORAGES	–	X	–	Sec. 1.15	Art. 3.4, 3.6A
d. GROUT SPACE PRIOR TO GROUTING	X	–	–	–	Art. 3.2D
e. PLACEMENT OF GROUT	X	–	–	–	Art. 3.5
f. PLACEMENT OF PRESTRESSING GROUT	X	–	–	–	Art. 3.6C
g. SIZE AND LOCATION OF STRUCTURAL ELEMENTS	–	X	–	–	Art. 3.3F
h. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	X	–	–	Sec. 1.2.2(e), 1.16.1	–
i. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT, ANCHOR BOLTS, PRESTRESSING TENDONS AND ANCHORAGES	–	X	–	Sec. 1.15	Art. 2.4, 3.4
j. WELDING OF REINFORCING BARS	X	–	–	Sec. 2.13.7.2, 3.3.3.4(b)	–
k. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F)	–	X	Sec. 2104.3, 2104.4	–	Art. 1.8C, 1.8D
l. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	X	–	–	–	Art. 3.6B
8. APPLICATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED	X	–	Sec. 2105.2.2, 2105.3	–	Art. 1.4

a. THE SPECIFIC STANDARDS REFERENCED ARE THOSE LISTED IN CHAPTER 35.

SPECIAL INSPECTION REQUIREMENTS - IBC 2009

1. THE QUALIFIED AGENCY AND PERSONNEL RETAINED FOR THESE SPECIAL INSPECTION SERVICES SHALL BE APPROVED BY THE OWNER, THE ARCHITECT AND THE ENGINEER OF RECORD PRIOR TO START OF CONSTRUCTION. AN OUTLINE OF THE SCOPE OF SERVICES TO BE PERFORMED BY THE INSPECTING AGENCY IS TO BE SUBMITTED PRIOR TO START OF CONSTRUCTION.
2. IN ACCORDANCE WITH SECTION 1704 OF THE INTERNATIONAL BUILDING CODE, 2009 EDITION, PERIODIC AND/OR CONTINUOUS INSPECTIONS OF THE CONSTRUCTION PROGRESS SHALL BE MADE BY AN INDEPENDENT APPROVED AGENCY IN ACCORDNCE WITH THE FOLLOWING REQUIREMENTS:

STEEL CONSTRUCTION	TABLE 1704.3
CONCRETE CONSTRUCTION	TABLE 1704.4
MASONRY CONSTRUCTION	TABLE 1704.5.1 & 1704.5.3
SOILS	TABLE 1704.7
PILE FOUNDATION	TABLE 1704.9

REQUIRED VERIFICATION AND INSPECTION OF SOILS - TABLE 1704.7			
VERIFICATION AND INSPECTION TASK	FREQUENCY OF INSPECTION		
	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED	
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	–	X	
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	–	X	
3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS.	–	X	
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF FILL.	X	–	
5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	–	X	

REQUIRED VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS - TABLE 1704.9		
VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT.	X	-
2. VERIFY PLACEMENT LOCATION AND PLUMBNESS, CONFIRM ELEMENT DIAMETERS, BELL DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END-BEARING STRATA CAPACITY. RECORD CONCRETE OR GROUT VOLUMES.	X	-
3. FOR CONCRETE ELEMENTS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1704.4.	-	-

RIVERHOUSE AT Odette's

274 SOUTH RIVER ROAD
NEW HOPE, PA 18938

OWNER/ OPERATOR:
GATEWAY TO NEW HOPE, LLC
274 South River Road
New Hope, PA 18938

ARCHITECT:
STOKES ARCHITECTURE
2103 Sansom Street
Philadelphia, PA 19103
tel: (215) 523-9190

INTERIOR DESIGNER
BALONGUE DESIGN INC
707 Mansford Road
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CIVIL ENGINEER:
VAN CLEEF ENGINEERING
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STRUCTURAL ENGINEER:
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701 Market Street Suite 6000
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Project No. 0411.0046.00

MEP ENGINEER:
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LIGHTING DESIGNER
BRIAN ORTER LIGHTING DESIGN LLC
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SEAL

ALL DIMENSIONS AND RELATIONSHIPS MUST BE VERIFIED BY CONTRACTOR. THE ARCHITECT IS TO BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE CONSTRUCTION. DO NOT SCALE FROM DRAWINGS.

PROJECT #: 1351
FILENAME: Author
DRAWN: Checker
CHECKED: 08/18/18
DATE:

CONSTRUCTION SET

SPECIAL INSPECTIONS

DRAWING

S0.3

ISSUED FOR CONSTRUCTION
10/26/18