SPECIAL INSPECTION

FABRICATORS (IBC 1704.2.5)

	YES	NO		YES	NO
APPROVED FABRICATOR	X		UNAPPROVED FABRICATOR		X
REQUIRED IN-PLANT INSPECTIONS	YES	NO		YES	NO
STEEL CONSTRUCTION		X	CONCRETE CONSTRUCTION		X
COLD-FORMED CONSTRUCTION		X	WOOD CONSTRUCTION		X

STRUCTURAL STEEL (IBC 1705.2.1, 1705.11.1 & 1705.12.2)

ITEM	CONTINUOUS	PERIODIC	DETAILED INSTRUCTIONS AND FREQUENCIES
PRIOR TO WELDING (TABLE N5.4-1, AISC 360-10):			
VERIFY WELDING PROCEDURES (WPS) AND CONSUMABLE CERTIFICATES	X		
MATERIAL IDENTIFICATION		X	VERIFY TYPE AND GRADE OF MATERIAL.
WELDER IDENTIFICATION		X	A SYSTEM SHALL BE MAINTAINED BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED.
FIT-UP GROOVE WELDS		X	VERIFY JOINT PREPARATION, DIMENSIONS, CLEANLINESS, TACKING, AND BACKING.
ACCESS HOLES		X	VERIFY CONFIGURATION AND FINISH.
FIT-UP OF FILLET WELDS		X	VERIFY ALIGNMENT, GAPS AT ROOT, CLEANLINESS OF STEEL SURFACES, AND TACK WELD QUALITY AND LOCATION.
DURING WELDING (TABLE N5.4-2, AISC 360-10):			
USE OF QUALIFIED WELDERS		X	VERIFY THAT WELDERS ARE APPROPRIATELY QUALIFIED.
CONTROL AND HANDLING OF WELDING CONSUMABLES		X	VERIFY PACKAGING AND EXPOSURE CONTROL.
CRACKED TACK WELDS		X	VERIFY THAT WELDING DOES NOT OCCUR OVER CRACKED TACK WELDS.
ENVIRONMENTAL CONDITIONS		X	VERIFY WIN SPEED IS WITHIN LIMITS AS WELL AS PRECIPITATION AND TEMPERATURE.
WPS FOLLOWED		X	VERIFY ITEMS SUCH AS SETTINGS ON WELDING EQUIPMENT, TRAVEL SPEED, WELDING MATERIALS, SHIELDING GAS TYPE/FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED, AND PROPER POSITION.
WELDING TECHNIQUES		X	VERIFY INTERPASS AND FINAL CLEANING, EACH PASS IS WITHIN PROFILE LIMITATIONS, AND QUALITY OF EACH PASS.
AFTER WELDING (TABLE N5.4-3, AISC 360-10):			
WELDS CLEANED		X	VERIFY THAT WELDS HAVE BEEN PROPERLY CLEANED.
SIZE, LENGTH, AND LOCATION OF WELDS	X		
WELDS MEET VISUAL ACCEPTANCE CRITERIA	X		
ARC STRIKES	X		
K-AREA	X		
BACKING & WELD TABS REMOVED	X		
REPAIR ACTIVITIES	X		
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT/MEMBER	X		
NONDESTRUCTIVE TESTING (SECTION N5.5, AISC 360-10):			
CJP WELDS (RISK CAT. II)		X	ULTRASONIC TESTING SHALL BE PERFORMED ON 10% OF CJP GROOVE WELDS IN BUTT, T- AND CORNER JOINTS SUBJECT TO TRANSVERSELY APPLIED TENSION LOADING IN MATERIALS 5/16-INCH THICK OR GREATER. TESTING RATE MUST BE INCREASED IF > 5% OF WELDS TESTED HAVE UNACCEPTABLE DEFECTS.
CJP WELDS (RISK CAT. III OR IV)	X		A REDUCTION IN THE RATE OF ULTRASONIC TESTING IS ALLOWED PER SECTION N5.5E.
ACCESS HOLES (FLANGE > 2")	X		
WELDED JOINTS SUBJECT TO FATIGUE	X		
PRIOR TO BOLTING (TABLE N5.6-1, AISC 360-10):			
► *NOT REQUIRED IF ONLY SNUG-TIGHT JOINTS ARE SPECIFIED [PER SECTION N5.6(1) OF AISC 360-10].*			
CERTIFICATIONS OF FASTENERS	X		
FASTENERS MARKED		X	VERIFY THAT FASTENERS HAVE BEEN MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.
PROPER FASTENERS FOR JOINT		X	VERIFY GRADE, TYPE, AND BOLT LENGTH IF THREADS ARE EXCLUDED FROM THE SHEAR PLANE.
PROPER BOLTING PROCEDURE		X	VERIFY PROPER PROCEDURE IS USED FOR THE JOINT DETAIL.
CONNECTING ELEMENTS		X	VERIFY APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET REQUIREMENTS.
PRE-INSTALLATION VERIFICATION TESTING		X	OBSERVE AND DOCUMENT VERIFICATION TESTING BY INSTALLATION PERSONNEL FOR FASTENER ASSEMBLIES AND METHODS USED.
PROPER STORAGE		X	VERIFY PROPER STORAGE OF BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.
DURING BOLTING (TABLE N5.6-2, AISC 360-10):			
► *NOT REQUIRED IF ONLY SNUG-TIGHT JOINTS ARE SPECIFIED [PER SECTION N5.6(1) OF AISC 360-10].* ► *NOT REQUIRED FOR PRETENSIONED JOINTS USING TURN-OF-THE-NUT METHOD WITH MATCH-MARKING, DIRECT-TENSION-INDICATORS, OR TWIST-OFF TYPE TENSION CONTROL METHOD [PER SECTION N5.6(2) OF AISC 360-10].*			
FASTENER ASSEMBLIES		X	VERIFY THAT FASTENER ASSEMBLIES ARE OF SUITABLE CONDITION, PACED IN ALL HOLES, AND WASHERS ARE POSITIONED AS REQUIRED.
SNUG-TIGHT PRIOR TO PRETENSIONING		X	VERIFY THAT JOINTS ARE BROUGHT TO SNUG-TIGHT CONDITION PRIOR TO PRETENSIONING OPERATION.
FASTENER COMPONENT		X	VERIFY THAT FASTENER COMPONENT IS NOT TURNED BY WRENCH PREVENTED FROM ROTATING.
PRETENSIONED FASTENERS		X	VERIFY THAT FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.
AFTER BOLTING (TABLE N5.6-3, AISC 360-10):			
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	X		

CONT. (STRUCTURAL STEEL)

ITEM	CONTINUOUS	PERIODIC	DETAILED INSTRUCTIONS AND FREQUENCIES
OTHER STEEL INSPECTIONS (SECTION N5.7, AISC 360-10; TABLES J8-1 & J10-1, AISC 341-10):			
STRUCTURAL STEEL DETAILS		X	ALL FABRICATED STEEL OR STEEL FRAMES SHALL BE INSPECTED TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN IN THE CONSTRUCTION DOCUMENTS, SUCH AS BRACES, STIFFENERS, MEMBER LOCATIONS, AND PROPER APPLICATION OF JOINT DETAILS AT EACH CONNECTION.
ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL		X	SHALL BE ON THE PREMISES DURING THE PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS. VERIFY THE DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDDED ITEM, AND THE EXTENT OR DEPTH OF EMBEDMENT PRIOR TO PLACEMENT OF CONCRETE.
REDUCED BEAM SECTIONS (RBS)		X	VERIFY CONTOUR AND FINISH AS WELL AS DIMENSIONAL TOLERANCES (SEE TABLE J8-1 OF AISC 341-10).
PROTECTED ZONES		X	VERIFY THAT NO HOLES OR UNAPPROVED ATTACHMENTS ARE MADE WITHIN THE PROTECTED ZONE (SEE TABLE J8-1 OF AISC 341-10).
H-PILES		X	VERIFY THAT NO HOLES OR UNAPPROVED ATTACHMENTS OCCUR WITHIN THE PROTECTED ZONES OF PILING (SEE TABLE J10-1 OF AISC 341-10).
STEEL ELEMENTS OF COMPOSITE CONSTRUCTION (TABLE N6.1, AISC 360-10; TABLES J9-1 THRU J9-3, AISC 341-11):			
PLACEMENT AND INSTALLATION OF STEEL DECK	X		
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X		
DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS	X		
REINFORCING STEEL		X	VERIFY APPROPRIATE REINFORCEMENT SIZE, SPACING, AND ORIENTATION; THAT IT HAS NOT BEEN RE-BENT IN FIELD; THAT IT IS CORRECTLY TIED AND SUPPORTED; AND THAT REQUIRED STEEL CLEARANCES HAVE BEEN PROVIDED.

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705.2.2)

ITEM	CONTINUOUS	PERIODIC	DETAILED INSTRUCTIONS AND FREQUENCIES
STEEL ROOF AND FLOOR DECKS (IBC TABLE 1705.2.2):			
MATERIAL VERIFICATION OF COLD-FORMED STEEL DECK		X	CONFIRM THAT IDENTIFICATION MARKINGS ARE PROVIDED TO CONFORM TO ASTM STANDARDS SPECIFIED ON CONSTRUCTION DOCUMENTS.
FLOOR AND ROOF DECK WELDS		X	VISUAL INSPECTION IS REQUIRED TO CONFIRM THAT WELD MEETS ACCEPTANCE CRITERIA OF AWS D1.3. WELDER QUALIFICATIONS SHOULD ALSO BE VERIFIED.
WELDING OF REINFORCING STEEL (IBC TABLE 1705.2.2):			
VERIFICATION OF WELDABILITY		X	VERIFY WELDABILITY OF REINFORCING STEEL BASED UPON CARBON EQUIVALENT AND IN ACCORDANCE WITH AWS D1.4.
REINFORCING STEEL IN INTERMEDIATE OR SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALLS	X		
SHEAR REINFORCEMENT	X		
OTHER REINFORCING STEEL		X	VISUALLY INSPECT ALL WELDS IN ACCORDANCE WITH AWS D1.4.
COLD-FORMED STEEL CONSTRUCTION (IBC 1705.2.2.1.1, 1705.10.3, AND 1705.11.3):			
TRUSSES SPANNING > 60-FEET		X	VERIFY THAT TEMPORARY AND PERMANENT TRUSS BRACING IS INSTALLED IN ACCORDANCE WITH APPROVED TRUSS PACKAGE. PERFORMED BY CODE INSPECTION FIRM.
WIND-FORCE-RESISTING SYSTEMS OR SEISMIC-FORCE-RESISTING SYSTEMS		X	PERIODIC INSPECTIONS OF WELDING OPERATIONS. IF FASTENER SPACING IS < 4" O.C.: VERIFY THAT PROPER SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF SHEAR WALLS, DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLDOWNS HAS OCCURRED. PERFORMED BY CODE INSPECTION FIRM.

SOILS CONSTRUCTION (IBC 1705.6)

ITEM	CONTINUOUS	PERIODIC	DETAILED INSTRUCTIONS AND FREQUENCIES
VERIFY SUBGRADE IS ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY		X	PRIOR TO PLACEMENT OF CONCRETE.
VERIFY EXCAVATIONS EXTEND TO PROPER DEPTH AND MATERIAL		X	PRIOR TO PLACEMENT OF COMPACTED FILL OR CONCRETE.
VERIFY THAT SUBGRADE HAS BEEN APPROPRIATELY PREPARED PRIOR TO PLACING COMPACTED FILL		X	PRIOR TO PLACEMENT OF COMPACTED FILL.
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X	ALL MATERIALS SHALL BE CHECKED AT EACH LIFT FOR PROPER CLASSIFICATIONS AND GRADATIONS NOT LESS THAN ONCE FOR EACH 10,000FT² OF SURFACE AREA.
VERIFY PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION	X		

SPECIAL INSPECTION, MATERIAL TESTING & STRUCTURAL OBSERVATION ITEMS REQUIRED BY CHAPTER 17 OF THE 2015 IBC

INDICATE ITEMS REQUIRING SPECIAL INSPECTION, STRUCTURAL TESTING, OR STRUCTURAL OBSERVATIONS BY CHECKING THE APPROPRIATE BOX. ALL ITEMS NOT REQUIRING INSPECTION/TESTING SHOULD BE REMOVED FROM THE LIST. FOR ITEMS REQUIRING CONTINUOUS INSPECTION, A SPECIAL INSPECTOR MUST BE PRESENT ONSITE DURING THE PERFORMANCE OF THAT TASK. IN "PERIODIC" INSPECTIONS/TESTS SHALL BE PERFORMED PRIOR TO COMMENCING THE TASK, INTERMITTENTLY DURING THE TASK, AND AT THE COMPLETION OF THE TASK, UNLESS NOTED OTHERWISE. THE "DETAILED INSTRUCTIONS & FREQUENCY" PROVIDES A DESCRIPTION OF THE PRESUMED REQUIREMENTS FOR TASKS REQUIRING "PERIODIC" INSPECTIONS.

SPECIAL INSPECTORS SHALL:

- BE APPROVED BY THE BUILDING OFFICIAL PRIOR TO PERFORMING ANY DUTIES.
- PROVIDE PROOF OF LICENSURE AS A SPECIAL INSPECTOR IN THE PROJECT'S STATE FOR EACH TYPE OF INSPECTION.
- INSPECTION REPORTS ARE TO MEET THE REQUIREMENTS OF IBC 1704.2.4 AND LOCAL AHJ STANDARDS.
- INSPECTION REPORTS ARE TO BE SUBMITTED TO THE ARCHITECT, ENGINEER, OWNER/PROJECT MANAGER, AHJ PROJECT MANAGER, AND THE STATE BUILDING OFFICIAL WITHIN 48 HOURS OF PERFORMING INSPECTIONS.
- A FINAL INSPECTION REPORT SHALL BE SUBMITTED FOLLOWING COMPLETION OF THE PROJECT DOCUMENTING THE TYPES OF SPECIAL INSPECTIONS PERFORMED AND A STATEMENT INDICATING THAT THE STRUCTURE IS IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS AND APPLICABLE CODES (SEE IBC 1704.2.4).

ASSUMED MANPOWER FOR SPECIAL INSPECTION ITEMS, TO BE DISCUSSED AND VERIFIED WITH OWNER:

- THE SAME INDIVIDUAL INSPECTORS SHALL BE USED FOR THE PROJECT TO MAINTAIN CONTINUITY WITHIN THE PROJECT.
  - SPECIAL INSPECTION AGENCY SHALL BE RESPONSIBLE FOR PROVIDING THE COORDINATION OF PERSONNEL ACCEPTABLE TO OWNER
- FOR REMOTE SITES, THE SPECIAL INSPECTORS SHOULD BE LICENSED IN MULTIPLE DISCIPLINES FOR SPECIAL INSPECTION IN ORDER TO LIMIT THE NUMBER IN INDIVIDUALS TRAVELING TO THE PROJECT SITE.
- 1 FULL TIME INSPECTOR SHALL BE PRESENT AND DEDICATED TO INSPECTING ALL MASONRY CONSTRUCTION.
  - INSPECTOR SHALL INSPECT OTHER SPECIAL INSPECTION ITEMS AS ABLE WHILE ONSITE, BUT SHALL NOT ALLOW OTHER SPECIAL INSPECTION ITEMS TO DEFER TIME FROM MASONRY INSPECTIONS WHILE MASONRY CONSTRUCTION IS ONGOING.
  - ADDITIONAL SPECIAL INSPECTORS SHALL BE BROUGHT ON SITE FOR CONTINUOUS SPECIAL INSPECTION ITEMS AS REQUIRED.

STRUCTURAL OBSERVER'S SHALL:

- PROVIDE PROOF OF LICENSURE AS A LICENSED PROFESSIONAL/STRUCTURAL ENGINEER IN THE PROJECT'S STATE.
- IF STRUCTURAL OBSERVATIONS ARE PERFORMED BY INDIVIDUALS OTHER THAN THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, THEY SHOULD FIRST BE APPROVED BY THE BUILDING OFFICIAL.
- AT THE CONCLUSION OF WORK, A FINAL STRUCTURAL OBSERVATION REPORT MUST BE SUBMITTED TO THE BUILDING OFFICIAL NOTING ANY DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED (SEE IBC 1704.5).

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SE18-195

Date:	09/19/2018
Drawn By:	TJN
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SPECIAL INSPECTION

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