

VIII. SPECIAL INSPECTIONS:

THE FOLLOWING SPECIAL INSPECTIONS SHALL BE PERFORMED PER CHAPTER 17 OF THE 2012 INTERNATIONAL BUILDING CODE:

GENERAL NOTES:

- INSPECTION OF FABRICATORS: SPECIAL INSPECTOR IS TO VERIFY THAT FABRICATORS MAINTAIN DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF THE WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- REFERENCE CURRENT STATE BUILDING CODE FOR APPLICABLE REFERENCED STANDARD SPECIFIC EDITION INFORMATION.
- SPECIAL INSPECTIONS FOR WIND REQUIREMENTS ARE ITEMIZED BELOW AND ARE REQUIRED EXCEPT WHERE EXEMPTED BY SECTION 1705.10:

- SPECIAL INSPECTIONS ARE REQUIRED FOR WIND IN THE FOLLOWING AREAS:
 - WIND EXPOSURE B WHERE THE V_{50d} AS DETERMINED WITH SECTION 1609.3.1 IS 120 MILES PER HOUR OR GREATER.
 - WIND EXPOSURE C OR D WHERE THE V_{50d} AS DETERMINED WITH SECTION 1609.3.1 IS 110 MILES PER HOUR OR GREATER.

- STRUCTURAL WOOD
 - CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM.
 - PERIODIC SPECIAL INSPECTIONS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS.
 - EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, WHERE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.

- COLD FORMED STEEL LIGHT-FRAME CONSTRUCTION
 - PERIODIC SPECIAL INSPECTION IS REQUIRED DURING WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM.
 - PERIODIC SPECIAL INSPECTION IS REQUIRED FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.
 - EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR COLD-FORMED LIGHT-FRAME SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS WHERE THE SHEATHING IS GYPSUM PANEL OR FIBERBOARD, OR THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.

- WIND RESISTING COMPONENTS
 - PERIODIC SPECIAL INSPECTION IS REQUIRED FOR THE FOLLOWING SYSTEMS AND COMPONENTS:
 - ROOF CLADDING
 - WALL CLADDING

- SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE ARE ITEMIZED BELOW AND ARE REQUIRED EXCEPT WHERE EXEMPTED BY SECTIONS 1704.2 OR 1705.11

- SPECIAL INSPECTIONS ARE REQUIRED FOR SEISMIC RESISTANCE FOR THE FOLLOWING:
 - THE SEISMIC FORCE RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E, OR F IN ACCORDANCE WITH SECTIONS 1705.11.1 THROUGH 1705.11.3, AS APPLICABLE.
 - DESIGNATED SEISMIC SYSTEMS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F IN ACCORDANCE WITH SECTION 1705.11.4.
 - ARCHITECTURAL, MECHANICAL AND ELECTRICAL COMPONENTS IN ACCORDANCE WITH SECTIONS 1705.11.5 AND 1707.11.6.
 - STORAGE RACKS IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORIES D, E, OR F IN ACCORDANCE WITH SECTION 1705.11.7.
 - SEISMIC ISOLATION SYSTEMS IN ACCORDANCE WITH SECTION 1705.11.8.

- SPECIAL INSPECTIONS FOR STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN REQUIREMENTS OF AISC 341.
 - SPECIAL INSPECTIONS OF STEEL ARE NOT REQUIRED IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C THAT ARE NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, WITH A R OF 3 OR LESS, EXCLUDING CANTILEVER COLUMN SYSTEMS.

- STRUCTURAL WOOD
 - CONTINUOUS SPECIAL INSPECTION IS REQUIRED DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM.
 - PERIODIC SPECIAL INSPECTIONS REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS.
 - EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO OTHER COMPONENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM, WHERE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.

- COLD FORMED STEEL LIGHT-FRAME CONSTRUCTION
 - PERIODIC SPECIAL INSPECTION IS REQUIRED DURING WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM.
 - PERIODIC SPECIAL INSPECTION IS REQUIRED FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.
 - EXCEPTION: SPECIAL INSPECTION IS NOT REQUIRED FOR COLD-FORMED LIGHT-FRAME SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS WHERE THE SHEATHING IS GYPSUM PANEL OR FIBERBOARD, OR THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY ONE SIDE OF THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.

- ARCHITECTURAL COMPONENTS REQUIRE PERIODIC SPECIAL INSPECTION DURING THE 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, UNLESS EXEMPTED BY SECTION 1705.11.5.

- ACCESS FLOORS REQUIRE PERIODIC SPECIAL INSPECTION FOR THEIR ANCHORAGE IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORIES D, E, OR F.

- MECHANICAL AND ELECTRICAL COMPONENTS REQUIRE SPECIAL INSPECTION AS FOLLOWS:
 - PERIODIC SPECIAL INSPECTION DURING THE ANCHORAGE OF ELECTRICAL EQUIPMENT FOR EMERGENCY AND STANDBY POWER SYSTEMS IN STRUCTURES ASSIGNED TO SDC (SEISMIC DESIGN CATEGORY) C, D, E, OR F.
 - PERIODIC SPECIAL INSPECTION DURING THE INSTALLATION OF ANCHORAGE OR OTHER ELECTRICAL EQUIPMENT IN STRUCTURES ASSIGNED TO SDC E, OR F.
 - PERIODIC SPECIAL INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF PIPING SYSTEMS DESIGNED TO CARRY HAZARDOUS MATERIALS AND THEIR ASSOCIATED MECHANICAL UNITS IN STRUCTURES ASSIGNED TO SDC (SEISMIC DESIGN CATEGORY) C, D, E, OR F.
 - PERIODIC SPECIAL INSPECTION DURING THE INSTALLATION OF HVAC DUCTWORK DESIGNED TO CARRY HAZARDOUS MATERIALS IN STRUCTURES ASSIGNED TO SDC (SEISMIC DESIGN CATEGORY) C, D, E, OR F.
 - PERIODIC SPECIAL INSPECTION DURING THE INSTALLATION AND ANCHORAGE OF VIBRATION ISOLATION SYSTEMS IN STRUCTURES ASSIGNED TO SDC (SEISMIC DESIGN CATEGORY) C, D, E, OR F WHERE THE CONSTRUCTION DOCUMENTS REQUIRE A NOMINAL CLEARANCE OF X'' OR LESS BETWEEN THE EQUIPMENT SUPPORT FRAME AND RESTRAINT.
 - STORAGE RACKS REQUIRE PERIODIC SPECIAL INSPECTION FOR ANCHORAGE OF STORAGE RACKS 8 FEET OR GREATER IN HEIGHT IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORIES D, E, OR F.

- THE SPECIAL INSPECTOR SHALL EXAMINE DESIGNATED SEISMIC SYSTEMS REQUIRING SEISMIC QUALIFICATION IN ACCORDANCE WITH 1705.12.3 AND VERIFY THAT THE LABEL, ANCHORAGE OR MOUNTING CONFORMS TO THE CERTIFICATE OF COMPLIANCE.

- PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE FABRICATION AND INSTALLATION OF ISOLATOR UNITS AND ENERGY DISSIPATION DEVICES.

- STRUCTURAL TESTING FOR SEISMIC RESISTANCE
 - THE TESTING AND QUALIFICATION SPECIFIED IN SECTIONS 1705.12.1 THROUGH 1705.12.4, UNLESS EXEMPTED FROM SPECIAL INSPECTIONS BY THE EXCEPTIONS OF SECTIONS 1704.2 ARE REQUIRED AS FOLLOWS:
 - THE SEISMIC FORCE RESISTING SYSTEMS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F AS DETERMINED IN SECTION 1613 SHALL MEET THE REQUIREMENTS OF SECTIONS 1705.12.1 AND 1705.12.2 AS APPLICABLE.
 - DESIGNATED SEISMIC SYSTEMS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F SUBJECT TO THE SPECIAL CERTIFICATION REQUIREMENTS OF AISC 7 SECTION 13.2.2 ARE REQUIRED TO BE TESTED IN ACCORDANCE WITH SECTION 1705.12.3.
 - ARCHITECTURAL, MECHANICAL, AND ELECTRICAL COMPONENTS IN STRUCTURES ASSIGNED TO SDC C, D, E, OR F WHERE THE REQUIREMENTS OF AISC 7 SECTION 13.2.1 ARE MET BY THE SUBMITTAL OF MANUFACTURER'S CERTIFICATION, IN ACCORDANCE WITH ITEM 2 THEREIN, SHALL COMPLY WITH SECTION 1705.12.3.
 - SEISMIC ISOLATION SYSTEM IN SEISMICALLY ISOLATED STRUCTURES SHALL MEET THE TESTING REQUIREMENTS OF SECTION 1705.12.4.

- CONTRACTOR RESPONSIBILITY:
 - EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WINDFORCE-RESISTING SYSTEM OR DESIGNATED SEISMIC SYSTEM OR A WIND-OR SEISMIC-RESISTING COMPONENT PROVIDED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE DESIGNER AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAIRED IN THE STATEMENT OF SPECIAL INSPECTIONS.

- STRUCTURAL OBSERVATIONS
 - WHERE REQUIRED BY THE PROVISIONS OF SECTIONS 1704.5.1 OR 1704.5.2, THE OWNER SHALL EMPLOY A REGISTERED DESIGN PROFESSIONAL TO PERFORM STRUCTURAL OBSERVATIONS AS REQUIRED BY SECTION 1702. STATEMENTS SHALL BE SUBMITTED BY THE STRUCTURAL OBSERVER TO THE BUILDING OFFICIAL PRIOR TO THE COMMENCEMENT OF WORK AND A CONCLUSION OF WORK AS INDICATED IN SECTION 1704.5.
 - SEISMIC RESISTANCE STRUCTURAL OBSERVATIONS ARE REQUIRED FOR STRUCTURES ASSIGNED TO SDC D, E, OR F, WHERE ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST:
 - THE STRUCTURE IS CLASSIFIED AS RISK CATEGORY III OR IV IN ACCORDANCE WITH TABLE 1604.5
 - THE HEIGHT OF THE STRUCTURE IS GREATER THAN 75 FEET ABOVE THE BASE.
 - THE STRUCTURE IS ASSIGNED TO SDC E IS CLASSIFIED AS RISK CATEGORY I OR II IN ACCORDANCE WITH TABLE 1604.5 AND IS GREATER THAN TWO STORIES ABOVE GRADE PLANE.
 - WHEN DESIGNATED BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE STRUCTURAL DESIGN.
 - WHEN SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.

- STRUCTURAL OBSERVATIONS FOR WIND REQUIREMENTS ARE REQUIRED WHERE V_{50d} AS DETERMINED IN ACCORDANCE WITH SECTION 1609.3.1 EXCEEDS 110 MPH, WHERE ONE OR MORE OF THE FOLLOWING CONDITIONS EXIST:
 - THE STRUCTURE IS CLASSIFIED AS RISK CATEGORY III OR IV IN ACCORDANCE WITH TABLE 1604.5.
 - THE BUILDING HEIGHT OF THE STRUCTURE IS GREATER THAN 75 FEET.
 - WHEN DESIGNATED BY THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE STRUCTURAL DESIGN.
 - WHEN SPECIFICALLY REQUIRED BY THE BUILDING OFFICIAL.

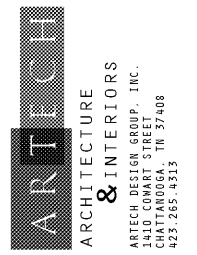
IBC 2012 SECTION 1705.2.1 REQUIRED VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION				
1. SPECIAL INSPECTION FOR STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE QUALITY CONTROL AND QUALITY ASSURANCE REQUIREMENTS OF THE LATEST EDITIONS OF AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND THE COMMENTARY OF AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.				

IBC 2012 TABLE 1705.3 REQUIRED VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION				
VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD	IBC REFERENCE
1. INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT.	-	X	ACI 318: 3.5, 7.1-7.7	1910.4
2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE WITH TABLE 1705.2.2, ITEM 2B.	-	-	AWS D1.4 ACI 318:3.5.2	-
3. INSPECTION OF ANCHORS CAST IN CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED OR WHERE STRENGTH DESIGN IS USED.	-	X	ACI 318: 8.1.3, 21.1.8	1908.5 1909.1
4. INSPECTION OF ANCHORS POST-INSTALLED IN HARDENED CONCRETE.	-	X	ACI 318: 3.8.6, 8.1.3, 21.1.8	1909.1
5. VERIFYING USE OF REQUIRED DESIGN MIX.	-	X	ACI 318: CH 4, 5.2.5.4	1904.2, 1910.2, 1910.3
6. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	-	ASTM C172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7. INSPECTION OF CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	X	-	ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	-	X	ACI 318: 5.11-5.13	1910.9
9. INSPECTION OF PRESTRESSED CONCRETE: a. APPLICATION OF PRESTRESSING FORCES b. GROUTING OF BONDED PRESTRESSING TENDONS IN THE SEISMIC-FORCE-RESISTING SYSTEM.	X X	-	ACI 318:18.20 ACI 318:18.16.4	-
10. ERECTION OF PRECAST CONCRETE MEMBERS	-	X	ACI 318: CH 16	-
11. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO STRESSING OF TENDONS IN POSTTENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	-	X	ACI 318: 6.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	-	X	ACI 318: 6.1.1	-

IBC 2012 TABLE 1705.6 REQUIRED VERIFICATION AND INSPECTION OF SOILS		
VERIFICATION AND INSPECTION	CONTINUOUSLY DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	-	-
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	-	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	-	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	-
5. PRIOR TO PLACEMENT OF COMPACTED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	-	X

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ISSUE DATES	
INITIAL	09-04-2020
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SCHEDULES & NOTES