

# SPECIAL INSPECTIONS SCHEDULES

RELEASED FOR CONSTRUCTION AND PERMIT

## 1704.2.5 Inspection of Fabricators

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
Verify fabrication/quality control procedures	In-plant review (3)	Y	Periodic - If fabricator is not AISC certified, (structural steel) or certified by the standard code/spec. for the fabricated assembly or material, special inspection required as indicated within structural steel welding portion of this document or applicable code/specification. If fabricator is approved as specified in section 1704.2.5.2, fabricator inspection is not required. At completion of fabrication, fabricator shall submit certificate of compliance to building official in accordance with Section 1704.2.5.2.	1

## 1705.1.1 Special Cases

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
HY-150 (or equal epoxy system/anchor)	The special inspector must record product description (including product name), adhesive expiration date, concrete or masonry type and strength, anchor diameter and steel grade, compliance of drill bit with this report, hole diameter and location, cleanliness of hole and anchor adhesive application, and anchor embedment. Additionally, the special inspector must state in the report supplied to the building official whether the anchor installation is in accordance with the manufacturer's published instructions and this evaluation report.	Y	Continuous during the first 36-hour period of anchor installation for each anchor type (special inspector must be on site and observing installation of operations while installations are taking place). Remaining anchor installations: periodic - random 25% of anchor installation inspected. If any installations do not meet specifications, all anchors/installations will be inspected (anchors installed and remaining anchors to be installed). Inspectors may require continuous inspection if required by building official - special inspector to confirm prior to inspections.	1
Kwik Bolt 3 (or equal wedge/expansion anchor system/anchor)	The special inspector must record product description (including product name), masonry type and condition, anchor type, diameter and steel grade, compliance of the drill bit with this report, hole diameter and location, and anchor embedment. Additionally, the special inspector must state in the report supplied to the building official whether the anchor installation is in accordance with the manufacturer's published instructions and this evaluation report.	Y	Continuous during the first 36-hour period of anchor installation for each anchor type (special inspector must be on site and observing installation of operations while installations are taking place). Remaining anchor installations: periodic - random 25% of anchor installation inspected. If any installations do not meet specifications, all anchors/installations will be inspected (anchors installed and remaining anchors to be installed). Inspectors may require continuous inspection if required by building official - special inspector to confirm prior to inspections.	1

## 1705.2 Steel Construction

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
1. Fabricator and erector documents (Verify reports and certificates as listed in AISC 360, chapter N, paragraph 3.2 for compliance with construction documents)	Submittal Review	Y	Each submittal	1&2
2. Material verification of structural steel	Shop (3) and field inspection	Y	Periodic	
3. Embedments (Verify diameter, grade, type, length, embedment. See 1705.3 for	Field inspection	Y	Periodic	1
4. Verify member locations, braces, stiffeners, and application of joint details at each connection comply with construction documents	Field inspection	Y	Periodic - random selection of 25% of all frame joints.	1
5. Structural steel welding:				
a. Inspection tasks Prior to Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-1)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)	1
b. Inspection tasks During Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-2)	Shop (3) and field inspection	Y	Observe (4)	1
c. Inspection tasks After Welding (Observe, or perform for each welded joint or member, the QA tasks listed in AISC 360, Table N5.4-3)	Shop (3) and field inspection	Y	Observe or Perform as noted (4)	1
d. Nondestructive testing (NDT) of welded joints: see Commentary				
1) Complete penetration groove welds 5/16" or greater in risk category III or IV	Shop (3) or field ultrasonic testing - 100%	N	Periodic	1
2) Complete penetration groove welds 5/16" or greater in risk category II	Shop (3) or field ultrasonic testing - 10% of welds	Y	Periodic	1
3) Thermally cut surfaces of access holes when material t > 2"	Shop (3) or field magnetic Particle or Penetrant testing	N	Periodic	1
4) Welded joints subject to fatigue when required by AISC 360, Appendix 3, Table A-3.1	Shop (3) or field radiographic or Ultrasonic testing	N	Periodic	1
5) Fabricator's NDT reports when fabricator performs NDT	Verify reports	N	Each submittal (5)	1
6. Structural steel bolting:				
a. Inspection tasks Prior to Bolting (Observe, or perform tasks for each bolted connection, in accordance with QA tasks listed in AISC 360, Table N5.6-1)	Shop (3) and field inspection	N	Observe or Perform as noted (4)	1
b. Inspection tasks during bolting (observe the QA tasks listed in AISC 360, Table N5.6-2)	Shop (3) and field inspection	Y	Observe (4)	1
1) Pre-tensioned and slip-critical joints				
a) Turn-of-nut with matching markings	Shop (3) and field inspection	Y	Periodic - observe all connections, minimum 10% of connections	1
b) Direct tension indicator	Shop (3) and field inspection	N	Periodic - observe all connections	1
c) Twist-off type tension control bolt	Shop (3) and field inspection	Y	Periodic - observe all connections	1
d) Turn-of-nut without matching markings	Shop (3) and field inspection	N	Continuous	1
e) Calibrated wrench	Shop (3) and field inspection	N	Periodic	1
2) Snug-tight joints	Shop (3) and field inspection	N	Perform (4)	1
c. Inspection tasks After Bolting (Perform tasks for each bolted connection in accordance with QA tasks listed in AISC 360, Table N5.6-3)	Shop (3) and field inspection	N	Perform (4)	1
7. Inspection of steel elements of composite construction prior to concrete placement in accordance with QA tasks listed in AISC 360, Table N6.1	Shop (3) and field inspection and testing	N	Observe or Perform as noted (4)	1

## 1705.2.2 Steel Construction Other Than Structural Steel

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
1. Material verification of cold-formed steel deck:				
a. Identification markings	Field inspection	Y	Periodic	1
b. Manufacturer's certified test reports	Submittal Review	Y	Each submittal	1
2. Connection of cold-formed steel deck to supporting structure:				
a. Welding	Shop (3) and field inspection	Y	Periodic - inspect all deck welds & side laps	1
b. Other fasteners (in accordance with AISC 360, Section N5.4)				
1) Verify fasteners are in conformance with approved submittal	Shop (3) and field inspection	Y	Periodic	1
2) Verify fastener installation is in conformance with approved submittal and manufacturer's recommendations	Shop (3) and field inspection	Y	Periodic	1
3. Reinforcing steel				
a. Verification of weldability label other than ASTM A706	Shop (3) and field inspection	Y	Periodic - verify correct, specified weld electrodes and reinforcing steel for each material shipment. Verify compliance with specified connection, construction for each connection type at the start of construction for that connection type.	1
b. Reinforcing steel resisting flexural and/or torsional forces in intermediate and special moment regions, boundary elements, special concrete structural walls and shear walls	Shop (3) and field inspection	N	Continuous	1
c. Welder reinforcement	Shop (3) and field inspection	N	Continuous	1
d. Other reinforcing steel	Shop (3) and field inspection	N	Periodic - verify correct, specified weld electrodes and reinforcing steel for each material shipment. Verify compliance with specified connection, construction for each connection type at the start of construction for that connection type.	1
4. Cold-formed steel trusses spanning 60 feet or greater				
a. Verify temporary and permanent restraint/bracing are installed in accordance with the approved truss submittal package	Field inspection	N	Periodic	1

## 1705.3 Concrete Construction

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
1. Inspection of reinforcing steel installation (see 1705.2.2 for welding)	Shop (3) and field inspection	Y	Periodic - before each concrete pour of fgs., walls, columns, and elevated slabs with sufficient time allowed for inspection of completed installed reinforcing prior to pour.	1
2. Inspection of prestressing steel installation	Shop (3) and field inspection	Y	Periodic - before each concrete pour of fgs., walls, columns, and elevated slabs with sufficient time allowed for inspection of completed installed reinforcing prior to pour.	1
3. Inspection of anchors cast in concrete where allowable loads have been increased per Section 1908.5 or where strength design is used	Shop (3) and field inspection	N	Periodic	
4. Inspection of anchors and reinforcing steel post-installed in hardened concrete. Per research reports including verification of anchor type, anchor dimensions, hole dimensions, hole cleaning procedures, anchor spacing, edge distances, concrete minimum thickness, anchor embedment and tightening torque	Field inspection	Y	Periodic or as required by the research report issued by approved source	1
5. Verify use of approved design mix	Shop (3) and field inspection	Y	Periodic	1 & 2
6. Fresh concrete sampling, perform slump and air content tests and determine temperature of concrete	Shop (3) and field inspection	Y	Continuous - every 30 cubic yds of each day (which have a casting time and each change in concrete strength)	1
7. Inspection of concrete and shotcrete placement for proper application techniques	Shop (3) and field inspection	Y	Continuous	1
8. Inspection for maintenance of specified curing temperature and techniques	Shop (3) and field inspection	Y	Continuous	1
9. Inspection of prestressed concrete:				
a. Application of prestressing force	Shop (3) and field inspection	Y	Continuous	1
b. Grouting of bonded prestressing tendons in the seismic-force-resisting system	Shop (3) and field inspection	Y	Continuous	1
10. Erection of precast concrete members				
a. Inspect in accordance with construction documents	Field inspection	N	In accordance with construction documents - 1) Sample grout (3) test samples every day of masonry construction for first three days of masonry construction with additional (3) samples every 30 cubic yards placed/once per week/every 5000 SF of wall, whichever is most stringent. 2) Inspect erection, bearing conditions and general conformance to erection drawings (2) times per week minimum.	1
b. Perform inspections of welding and bolting in accordance with Section 1705.2	Field inspection	N	In accordance with Section 1705.2 - (1) time per week minimum	1
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	Field testing and laboratory reports	Y	Periodic - additional cylinder for 3-day/7-day tests (contractor's option) on time of testing with same sampling frequency as typical fresh concrete sampling. Verify that adequate concrete strength has been obtained on concrete test cylinders.	1
12. Inspection of formwork for shape, lines, location, and dimensions	Field inspection	Y	Periodic - inspect prior to each concrete placement	1
13. Concrete strength testing and verification of compliance with construction documents	Field testing and review of laboratory reports	Y	Periodic	1 & 2

## 1705.6 Soils

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity	Field inspection	Y	Periodic	1
2. Verify excavations are extended to proper depth and have reached proper material.	Field inspection	Y	Periodic	1
3. Verify classification and testing of controlled fill materials.	Field inspection	Y	Periodic	1
4. Verify proper materials, densities, and lift thicknesses during placement and compaction of controlled fill	Field inspection	Y	Continuous	1
5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly	Field inspection	Y	Periodic	1

## 1705.11.1 Structural Steel Special Inspections for Seismic Resistance

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
Inspection of structural steel in accordance with AISC 341	Shop (3) and field inspection	Y	In accordance with AISC 341	1

## 1705.11.4 Designated Seismic Systems Verification (SDC = C, D, E, or F)

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
Inspect and verify that the component label, anchorage or mounting conforms to the certificate of compliance in accordance with Section 1705.12.3	Field inspection	Y	Periodic	1

## 1705.12.2 Structural Steel Testing and Qualification for Seismic Resistance

MATERIAL / ACTIVITY	SERVICE	APPLICABLE TO THIS PROJECT		
		Y/N	EXTENT	AGENT* DATE COMPLETED
Test in accordance with the quality assurance requirements of AISC 341	Shop (3) and field testing	Y	Per AISC 341	1

### \*Inspection Agents

FIRM	ADDRESS	TELEPHONE NO.
1. Special Inspector (TBD)		
2. Structural Engineer		
3. Architect (???)	??	(???) ???-????
4. Mech. & Plumbing	??	(???) ???-????

### Notes:

- The inspection and testing agent(s) shall be engaged by the Owner or the Owner's Agent, and not by the Contractor or Subcontractor whose work is to be inspected or tested. Any conflict of interest must be disclosed to the Building Official prior to commencing work. The qualifications of the Special Inspector(s) and/or testing agencies may be subject to the approval of the Building Official and/or the Design Professional.
- The list of Special Inspectors may be submitted as a separate document, if noted so above.
- Special Inspections as required by Section 1704.2.5 are not required where the fabricator is approved in accordance with IBC Section 1704.2.5.2.
- Observe on a random basis, operations need not be delayed pending these inspections. Perform these tasks for each welded joint, bolted connection, or steel element.
- NDT of welds completed in an approved fabricator's shop may be performed by that fabricator when approved by the AHJ. Refer to AISC 360, N7.
- For all other disciplines refer to relevant documents provided by the design professional.

REVISIONS	NO.	DATE	COMMENTS
	01.15.19		Permit Set

**RETAIL DEVELOPMENT**  
**POP'S WINE & SPIRITS**  
 2-1764 TR A-B MCFARLAND 400 IND PARK  
 MCFARLAND PKWY ALPHARETTA GA 30004

**Special Inspections**  
 PROJ. NO.: 201812  
 DATE: 01-15-19  
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