City of Brentwood
Planning and Codes Department
5211 Maryland Way
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Brentwood, TN 37024-0788

Office (615) 371-2204
Fax (615) 371-2233
Internet www.brentwood-tn.org/planning
Inspection Request (615) 661-7077 (available 24/7)
eTrakIt for Contractors Click here

♦ *Commercial Rough-In Inspection Checklist - Building, Mechanical and/or Plumbing* ♦

2012 ICC International Building, Mechanical, Plumbing, Fuel Gas Codes; 2009 ICC IECC; 2009 NFPA 1 & 101; 2010 ADA

Effective January 1, 2013

Date: _____ Permit # _____ [ ] Initial Inspection

Lot Number / Address: _____ [ ] Follow-up Inspection

Building / Tenant Name: _____

Contractor: _____ Inspector: _____

NOTE: To request a reinspection, call the *Inspection Request Line* anytime, (615) 661-7077. Follow message prompts.

THE CONTENT OF THIS DOCUMENT IS NOT ALL INCLUSIVE

ID No.	Inspection Category and Item	Pass	Shall Correct	N/A	Comment
1.	**GENERAL**				
	Job site address/lot number is identified and visible from the street				
	Stamped/Approved drawings on jobsite				
	City and State permits posted at the jobsite				
	Street is clear of all debris (mud, nails, rock, trash, wood, etc.)				
	Erosion control is correctly installed & maintained				
	Construction driveway is maintained				
	Provide report(s) for required special inspections				
	Provide report(s) for structural observations completed by design professional				
	Structure is "in-the-dry" (electrical, roof and wall framing protected)				
	Any previous outstanding corrections on project				
	Electrical rough-in and low voltage inspection completed by the State Electrical Inspector				
	Foam/Insulation proposed (walls, ceiling and/or floors) ES Report required on jobsite				
2.	**FOUNDATION**				
	Required anchoring installed per approved drawings				
	Seismic or special structural elements; reports provided				
	Soil density and/or compaction test reports provided				
	Reinforcement steel installed; structural engineer's report required				
	Relief arch(s) and/or sleeves installed at piping locations				
	Vapor barrier in place; structural engineer's report to confirm				
3.	**FRAMING**				
	All connectors installed per approved plans; structural engineer's report to confirm and included in report				
	Structural elements/bearing points(beams, girders, support columns, lintels, etc.) in compliance to approved drawings				
	Ends of joists, beams and girders meet min. bearing requirements				
	Field welding, bolting, anchoring, etc. to be verified by structural engineer and included in report				
	Wall framing layout design consistent with approved plans				

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3.	**FRAMING (continued)**				
	Floor framing layout design consistent with approved plans				
	Roof framing layout design consistent with approved plans				
	Penetrations in rated assemblies are required to be sleeved and sealed				
	Attic draft-stopping required every 3000sf in combustible construction with no fire suppression system.				
	Untreated lumber isolated from contact with masonry / concrete				
	Wall Studs - ***Notched,*** **non-bearing**: =<40% of a single stud width				
	Wall Studs - ***Notched,*** **exterior and/or bearing**: not cut/notched >25% of width				
	Wall Studs - ***Bored/drilled*** **non-bearing**: =<60% with edge of hole no more than 5/8" to stud's edge and no cut or notch				
	Wall Studs - ***Bored/drilled*** **exterior and/or bearing**: =>40% to =<60% require doubled-studs (or stud shoes) with no more than two successive doubled studs bored.				
	Studs (wall) do not exceed max. height limitations				
	Attic access and service space provided				
4.	**FIREBLOCKING/DRAFT- STOPPING**				
	Top & bottom wall plates: Penetrations sealed with approved material(s)				
	Chases are fire-stopped				
	Penetrations thru fire-blocking are correctly sealed				
	Walls and fir-downs are fire-blocked at ceiling height				
	Walls =<10' height are fire-blocked at 10' intervals				
	Walls at ceiling height: fire-blocked correctly				
	Exterior wall sheathing penetrations/openings correctly sealed				
	Stair stringers at walls and landings are fire-blocked				
	Stair stringers at walls and landings: penetrations thru fire-blocking are fire-stopped correctly				
5.	**PLUMBING**				
	Water supply pressure test; gauge reading 100psi				
	Plumbing drain test passed				
	Fixture clearances				
	Drinking fountain location				
	Location of water heater(s); provide access for observation, maintenance, servicing and replacement. (relief valve location)				
	Boilers exceeding 199,999 BTU's are regulated by the State of Tennessee-Division of Boiler and Elevator Inspections				
	Protection of potable water supply				
	Piping, traps, bends, material and devices used in plumbing system shall bear identification of the manufacturer				
	Piping supported and secured; hangar spacing compliance and at fixture locations				

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5.	**PLUMBING (continued)**				
	Piping protected from freezing, breakage, stress & strains; sleeved or relieving arch provided through or under footings and foundations				
	Piping insulated				
	Condensation disposal; auxiliary and secondary				
	Elevator pump discharge; location, contained or interceptor proposed				
	Nail-guards for piping have been correctly installed/provided				
	DWV cleanouts are provided per code				
	Grease interceptor or separator rough-in inspection has been passed by the Water & Sewer Department				
	Grinder pump rough-in inspection has been passed by the Water & Sewer Department (external)				
	Internal sump or ejector pump proposed				
	Building sewer and water service piping separation (5')				
	Primary and secondary roof drainage compliance				
6.	**MECHANICAL / GAS**				
	Gas supply line system test: Test gauge remained at 15 psi for 15 minutes				
	Appliances to be accessible				
	Combustion air compliance (indoor/outdoor)				
	Mechanical ventilation system for enclosed parking garages				
	For other than steel pipe, exposed pipe shall be identified by a yellow label marked "gas" in black letters at intervals not exceeding 5 feet				
	Piping from multiple meter installations shall be marked/identified for each meter.				
	Piping to be protected from corrosive action				
	Gas piping shall not penetrate building foundation walls at any point below grade.				
	Minimum burial depth of 12 inches for underground piping				
	Sediment traps installed				
	Appliance shut-off(s) to be in same room - within 6 feet of appliance				
	Appliance clearance from grade				
	Fueled fired appliances-prohibited locations (sleeping rooms, bathrooms, toilet rooms, storage closets, surgical rooms) Review IMC for exceptions.				
	Elevated ignition source (18 inches) unless listed as flammable vapor ignition resistant				
	Minimum clearances between gas vent piping and/or fireplace vent piping and combustible materials are being maintained				
	Gas piping supported/secured				
	Vent systems shall be sized and installed in accordance with manufacturer's installation instructions				
	All portions of vent system properly supported				
	Commercial venting and hood exhaust (Type I or II)				
	Commercial make-up air supplied during operation of equipment				

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6.	**MECHANICAL / GAS (continued)**				
	Gas vent/exhaust termination compliance from roof, openings, other				
	Materials within plenums; non-combustibles				
	Duct insulation shall conform to the 2009 IECC				
	Air distribution systems shall be equipped with smoke detectors				
	Ducts and air transfer openings penetrating fire partitions shall be protected by fire dampers				
	Ducts and air transfer openings penetrating smoke barriers shall be protected by smoke dampers				
	Shaft enclosure penetrations; exceptions				
	Refrigerant circuit access located outside must be secured				
	Temporary safety guardrails and handrails installed at stairs, landings and ramps				
	Safety glazing installed at required hazardous locations				
	Ensure stair treads and risers meet code at final inspection				
	Stairway headroom meets or exceeds 6'-8" clearance				
8.	**OTHER**				
	Exterior wall sheathing penetrations / openings sealed				
	Wood and wood-based products protected against decay				
	Ensure adequate attic ventilation, at final inspection				

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