

## City of Carson City Agenda Report

**Date Submitted:** May 8, 2012

**Agenda Date Requested:** May 17, 2012

**Time Requested:** 15 minutes

**To:** Mayor and Board of Supervisors

**From:** Public Works-Building Division

**Subject Title:** For possible action to adopt on second reading, Bill No. 150, an ordinance amending the Carson City Municipal Code Title 15, Buildings and Construction, Chapter 15.05, Building Code, Section 15.05.020, Adoption and administration of Building and Construction Codes, by adding Sections 109.3.5 Roof Nail Inspection, 109.3.7 Insulation Inspection, 109.3.8 Lath and Gypsum Board Inspection, and 109.3.10 Energy Efficiency Inspections; repealing a portion of Section 106.3, Examination of documents, to exclude certain items from the plan review process; repealing the adoption of the 2006 International Energy Conservation Code and adopting the 2009 International Energy Conservation Code and the 2011 Northern Nevada Amendments; and other matters properly related thereto. (Kevin Gattis)

**Staff Summary:** The proposed language would reestablish certain inspections and plan review items that were repealed in December of 2009 due to reduced staffing. The staffing issues still exist, however, with the State of Nevada mandating the adoption and enforcement of the 2009 International Energy Conservation Code it is necessary to reestablish the inspections and plan review that were discontinued in 2009.

**Type of Action Requested:**

☐ Resolution

☒ Ordinance

☐ Formal Action/Motion

☐ Other (Specify)

**Does This Action Require A Business Impact Statement:** ☐ Yes ☒ No

**Recommended Board Action:** I move to adopt on second reading, Bill No. 150, an ordinance amending the Carson City Municipal Code Title 15, Buildings and Construction, Chapter 15.05, Building Code, Section 15.05.020, Adoption and administration of Building and Construction Codes, by adding Sections 109.3.5 Roof Nail Inspection, 109.3.7 Insulation Inspection, 109.3.8 Lath and Gypsum Board Inspection, and 109.3.10 Energy Efficiency Inspections; Repealing a portion of Section 106.3, Examination of documents to exclude certain items from the plan review process; repealing the adoption of the 2006 International Energy Conservation Code and adopting the 2009 International Energy Conservation Code and the 2011 Northern Nevada Amendments; and other matters properly related thereto.

**Explanation for Recommended Board Action:** The Board of Supervisors, pursuant to Carson City Municipal Code, is required to take action on all code amendments.

**Applicable Statute, Code, Policy, Rule or Regulation:** CCMC Title 15

**Fiscal Impact:** N/A

**Explanation of Impact:** N/A

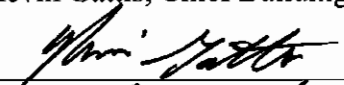
**Funding Source:** N/A

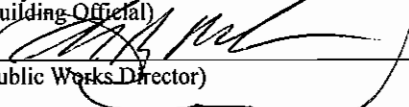
**Alternatives:** 1) Refer the matter back to the Building Division for further review, or  
2) Deny

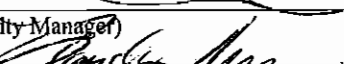
**Supporting Material:** 1) 2011 Northern Nevada Amendment Package  
2) CCMC 15.05.020

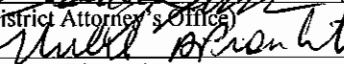
**Prepared By:** Kevin Gattis, Chief Building Official

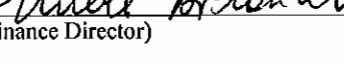
**Reviewed By:**

  
(Building Official)

  
(Public Works Director)

  
(City Manager)

  
(District Attorney's Office)

  
(Finance Director)

Date:

5-8-12

Date:

5-8-12

Date:

5/8/12

Date:

5/8/12

Date:

5/8/12

**Board Action Taken:**

Motion: \_\_\_\_\_

1) \_\_\_\_\_

Aye/Nay

2) \_\_\_\_\_

\_\_\_\_\_  
(Vote Recorded By)

ORDINANCE NO. \_\_\_\_\_

BILL NO. **150**

AN ORDINANCE AMENDING TITLE 15, BUILDINGS AND CONSTRUCTION, CHAPTER 15.05, BUILDING CODE, SECTION 15.05.020, ADOPTION AND ADMINISTRATION OF BUILDING AND CONSTRUCTION CODES, BY ADDING SECTIONS 109.3.5 ROOF NAIL INSPECTION, 109.3.7 INSULATION INSPECTION, 109.3.8 LATH AND GYPSUM BOARD INSPECTION, AND 109.3.10 ENERGY EFFICIENCY INSPECTIONS; REPEALING A PORTION OF SECTION 106.3, EXAMINATION OF DOCUMENTS, TO EXCLUDE CERTAIN ITEMS FROM THE PLAN REVIEW PROCESS; REPEALING THE ADOPTION OF THE 2006 INTERNATIONAL ENERGY CONSERVATION CODE AND ADOPTING THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE AND THE 2011 NORTHERN AMENDMENTS; AND OTHER MATTERS PROPERLY RELATED THERETO.

THE BOARD OF SUPERVISORS OF CARSON CITY DO ORDAIN:

**SECTION I:**

That Section 15.05.020 of the Carson City Municipal Code is hereby amended as follows:

**15.05.020 Adoption and administration of Building and Construction Codes.**

**TABLE INSET:**

100	Adopted Codes
101	General
102	Applicability
103	Department of Building Safety
104	Duties and Powers of Building Official
105	Permits
106	Construction Documents
107	Temporary Structures and Uses
108	Fees

109	Inspections
110	Certificate of Occupancy
111	Service Utilities
112	Board of Appeals
113	Violations
114	Stop Work Order
115	Unsafe Structures and Equipment
116	Workmanship and Fabrication
117	Moving and Demolition

Carson City hereby adopts the following codes and appendices and the amended administrative provision from the International Building Code which are applicable to all of the adopted codes as follows:

## SECTION 100 - ADOPTED CODES

100.10 Adopted codes. The following nationally recognized codes are hereby adopted by Carson City, together with the supplements, listed changes, additions and deletions as noted below:

1. 2006 Edition, International Building Code ("IBC"), chapters 2 through 34 and Appendices C, E, G, H, I and J as amended.
2. 2006 Edition, Uniform Plumbing Code ("UPC"), chapters 2 through 16 and IAPMO Installation Standards and Appendices A, B, D, E, G, H, I, J, K and L.
3. 2006 Edition, International Residential Code ("IRC"), chapters 2 through 42 and Appendices A, B, C, G, H, J, K, and L as amended.
4. 2006 Edition, Uniform Mechanical Code ("UMC"), chapters 2 through 17 and Appendices A, B and C as amended.
5. 2005 Edition, National Electrical Code ("NEC"), and Administrative Section, Article 80.
6. 2006 Edition, International Energy Conservation Code, ("IECC").
7. 200[6]9 International Property Maintenance Code, ("IPMC").
8. 2006 International Existing Building Code, ("IEBC").
9. 2007 Northern Nevada Amendments – except Sections 1214.3, 1214.3.1, 1214.3.2, and 1214.3.3.
10. 2011 Northern Nevada Amendments

100.20 Definition of words and terms. As used in the adopted codes and sections 100.010 to 116.10, inclusive, of the Carson City Code.

1. "Jurisdiction" and other similar terms shall be construed to mean Carson City.

## SECTION 101 - GENERAL

101.1 Title. These regulations shall be known as the Building Code of Carson City, hereinafter referred to as "this code."

Any duty created by this code or based on this code runs to the public, and no private cause of action is created by a breach of such duty. No document, certificate, inspection or approval given pursuant to this code may be construed to be a representation or warranty of any kind, including without limitation a representation or warranty that a building or structure is complete, that it is in compliance with this code or any other law, that it was inspected, that it is safe or ready for occupancy or that it meets any particular degree of quality of workmanship. The amount and quality of inspection and other services provided is discretionary with the building official and may vary in response to the amount of staff, their work load, training and experience, funding and other pertinent factors affecting whether and how inspection is made or whether any hazard, deficiency or similar matter is observed.

101.2 Scope. The provisions of this code shall apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal and demolition of every building or structure or any appurtenances connected or attached to such buildings or structures.

Exception: Detached one- and two-family dwellings and multiple single-family dwellings (townhouses) not more than three stories above grade plane in height with a separate means of egress and their accessory structures shall comply with the International Residential Code.

101.2.1 Appendices. Provisions in the appendices shall not apply unless specifically adopted.

101.3 Intent. The purpose of this code is to establish the minimum requirements to safeguard the public health, safety and general welfare through structural strength, means of egress facilities, stability, sanitation, adequate light and ventilation, energy conservation, and safety to life and property from fire and other hazards attributed to the built environment and to provide safety to fire fighters and emergency responders during emergency operations.

101.4 Referenced codes. The other codes listed in Sections 101.4.1 through 101.4.7 and referenced elsewhere in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference.

101.4.1 Electrical. The provisions of the ICC Electrical Code shall apply to the installation of electrical systems, including alterations, repairs, replacement, equipment, appliances, fixtures, fittings and appurtenances thereto.

101.4.5 Property maintenance. The provisions of the International Property Maintenance Code shall apply to existing structures and premises; equipment and facilities; light, ventilation, space heating, sanitation, life and fire safety hazards; responsibilities of owners, operators and occupants; and occupancy of existing premises and structures.

101.4.6 Fire prevention. The provisions of the International Fire Code shall apply to matters affecting or relating to structures, processes and premises from the hazard of fire and explosion arising from the storage, handling or use of structures, materials or devices; from conditions hazardous to life, property or public welfare in the occupancy of structures or premises; and from the construction, extension, repair, alteration or removal of fire suppression and alarm systems or fire hazards in the structure or on the premises from occupancy or operation.

101.4.7 Energy. The provisions of the International Energy Conservation Code shall apply to all matters governing the design and construction of buildings for energy efficiency.

## **SECTION 102 - APPLICABILITY**

102.1 General. Where, in any specific case, different sections of this code specify different materials, methods of construction or other requirements, the most restrictive shall govern. Where there is a conflict between a general requirement and a specific requirement, the specific requirement shall be applicable.

102.2 Other laws. The provisions of this code shall not be deemed to nullify any provisions of local, state or federal law.

102.3 Application of references. References to chapter or section numbers, or to provisions not specifically identified by number, shall be construed to refer to such chapter, section or provision of this code.

102.4 Referenced codes and standards. The codes and standards referenced in this code shall be considered part of the requirements of this code to the prescribed extent of each such reference. Where differences occur between provisions of this code and referenced codes and standards, the provisions of this code shall apply.

102.5 Partial invalidity. In the event that any part or provision of this code is held to be illegal or void, this shall not have the effect of making void or illegal any of the other parts or provisions.

102.6 Existing structures. The legal occupancy of any structure existing on the date of adoption of this code shall be permitted to continue without change, except as is specifically covered in this code, the International Property Maintenance Code or the International Fire Code, or as is deemed necessary by the building official for the general safety and welfare of the occupants and the public.

## **SECTION 103 - BUILDING DIVISION**

103.1 Creation of enforcement agency. The Building Division is hereby created and the official in charge thereof shall be known as the building official.

103.2 Appointment. The building official shall be appointed by the chief appointing authority of the jurisdiction.

103.3 Deputies. In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority, the building official shall have the authority to appoint a deputy building official, the related technical officers, inspectors, plan examiners and other employees. Such employees shall have powers as delegated by the building official.

## **SECTION 104 - DUTIES AND POWERS OF BUILDING OFFICIAL**

104.1 General. The building official is hereby authorized and directed to enforce the provisions of this code. For such purposes, the building official shall have the power to issue citations. The building official shall have the authority to render interpretations of this code and to adopt policies and procedures in order to clarify the application of its provisions. Such interpretations, policies and procedures shall be in compliance with the intent and purpose of this code. Such policies and procedures shall not have the effect of waiving requirements specifically provided for in this code.

104.2 Applications and permits. The building official shall receive applications, review construction documents and issue permits for the erection, and alteration, demolition and moving of buildings and structures, inspect the premises for which such permits have been issued and enforce compliance with the provisions of this code.

104.3 Notices and orders. The building official shall issue all necessary notices or orders to ensure compliance with this code.

104.4 Inspections. The building official shall make all of the required inspections, or the building official shall have the authority to accept reports of inspection by approved agencies or individuals. Reports of such inspections shall be in writing and be certified by a responsible officer of such approved agency or by the responsible individual. The building official is authorized to engage such expert opinion as deemed necessary to report upon unusual technical issues that arise, subject to the approval of the appointing authority.

104.5 Identification. The building official shall carry proper identification when inspecting structures or premises in the performance of duties under this code.

104.6 Right of entry. Where it is necessary to make an inspection to enforce the provisions of this code, or where the building official has reasonable cause to believe that there exists in a structure or upon a premises a condition which is contrary to or in violation of this code which makes the structure or premises unsafe, dangerous or hazardous, the building official is authorized to enter the structure or premises at reasonable times to inspect or to perform the duties imposed by this code, provided that if such structure or premises be occupied that credentials be presented to the occupant and entry requested. If such structure or premises is unoccupied, the building official shall first make a reasonable effort to locate the owner or other person having charge or control of the structure or premises and request entry. If entry is refused, the building official shall have recourse to the remedies provided by law to secure entry.

104.7 Department records. The building official shall keep official records of applications received, permits and certificates issued, fees collected, reports of inspections, and notices and

orders issued. Such records shall be retained in the official records for the period required for retention of public records.

104.8 Liability. The building official, member of the board of appeals or employee charged with the enforcement of this code, while acting for the jurisdiction in good faith and without malice in the discharge of the duties required by this code or other pertinent law or ordinance, shall not thereby be rendered liable personally and is hereby relieved from personal liability for any damage accruing to persons or property as a result of any act or by reason of an act or omission in the discharge of official duties. Any suit instituted against an officer or employee because of an act performed by that officer or employee in the lawful discharge of duties and under the provisions of this code shall be defended by legal representative of the jurisdiction until the final termination of the proceedings. The building official or any subordinate shall not be liable for cost in any action, suit, or proceeding that is instituted in pursuance of the provisions of this code.

104.9 Approved materials and equipment. Materials, equipment and devices approved by the building official shall be constructed and installed in accordance with such approval.

104.9.1 Used materials and equipment. The use of used materials which meet the requirements of this code for new materials is permitted. Used equipment and devices shall not be reused unless approved by the building official.

104.10 Modifications. Wherever there are practical difficulties involved in carrying out the provisions of this code, the building official shall have the authority to grant modifications for individual cases, upon application of the owner or owner(s) representative, provided the building official shall first find that special individual reason makes the strict letter of this code impractical and the modification is in compliance with the intent and purpose of this code and that such modification does not lessen health, accessibility, life and fire safety, or structural requirements. The details of action granting modifications shall be recorded and entered in the files of the department of building safety.

104.11 Alternative materials, design and methods of construction and equipment. The provisions of this code are not intended to prevent the installation of any material or to prohibit any design or method of construction not specifically prescribed by this code, provided that any such alternative has been approved. An alternative material, design or method of construction shall be approved where the building official finds that the proposed design is satisfactory and complies with the intent of the provisions of this code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this code in quality, strength, effectiveness, fire resistance, durability and safety.

104.11.1 Research reports. Supporting data, where necessary to assist in the approval of materials or assemblies not specifically provided for in this code, shall consist of valid research reports from approved sources.

104.11.2 Tests. Whenever there is insufficient evidence of compliance with the provisions of this code, or evidence that a material or method does not conform to the requirements of this code, or



in order to substantiate claims for alternative materials or methods, the building official shall have the authority to require tests as evidence of compliance to be made at no expense to the jurisdiction. Test methods shall be as specified in this code or by other recognized test standards. In the absence of recognized and accepted test methods, the building official shall approve the testing procedures. Tests shall be performed by an approved agency. Reports of such tests shall be retained by the building official for the period required for retention of public records.

## **SECTION 105 - PERMITS**

**105.1 Required.** Any owner or authorized agent who intends to construct, enlarge, alter, repair, move, demolish, or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any electrical, gas, mechanical or plumbing system, the installation of which is regulated by this code, or to cause any such work to be done, shall first make application to the building official and obtain the required permit.

Permits for commercial buildings shall be issued only to persons in conformance with Nevada State Contractors law.

**105.1.1 Annual permit.** In lieu of an individual permit for each alteration to an already approved electrical, gas, mechanical or plumbing installation, the building official is authorized to issue an annual permit upon application therefore to any person, firm or corporation regularly employing one or more qualified trade persons in the building, structure or on the premises owned or operated by the applicant for the permit.

**105.1.2 Annual permit records.** The person to whom an annual permit is issued shall keep a detailed record of alterations made under such annual permit. The building official shall have access to such records at all times or such records shall be filed with the building official as designated.

**105.2 Work exempt from permit.** Exemptions from permit requirements of this code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of this code or any other laws or ordinances of this jurisdiction. Permits shall not be required for the following:

### **Building:**

1. One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 120 square feet (11 m<sup>2</sup>).
2. Fences not over 6 feet (1829) high.
3. Oil derricks.
4. Retaining walls that are not over 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding Class I, II or IIIA liquids.
5. Water tanks supported directly on grade if the capacity does not exceed 5,000 gallons (18 925 L) and the ratio of height to diameter or width does not exceed 2:1.

6. Patios, decks, sidewalks and driveways not more than 30 inches (762 mm) above adjacent grade, and not over any basement or story below and are not part of an accessible route.
7. Painting, papering, tiling, carpeting, cabinets, counter tops and similar finish work.
8. Temporary motion picture, television and theater stage sets and scenery.
9. Prefabricated swimming pools accessory to a Group R-3 occupancy that are less than 24 inches (610 mm) deep, do not exceed 5,000 gallons (18 925 L) and are installed entirely above ground.
10. Shade cloth structures constructed for nursery or agricultural purposes, not including service systems.
11. Swings and other playground equipment accessory to detached one- and two-family dwellings.
12. Window awnings supported by an exterior wall that do not project more than 54 inches (1372 mm) from the exterior wall and do not require additional support of Group R-3 and U occupancies.
13. Nonfixed and movable fixtures, cases, racks, counters and partitions not over 5 feet 9 inches (1753 mm) in height.
14. Roofing repair if the roof is less than 100 square feet.
15. Door and window replacement when the opening size and location remain the same.

#### Electrical:

Repairs and maintenance: Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.

Radio and television transmitting stations: The provisions of this code shall not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for a power supply and the installations of towers and antennas.

Temporary testing systems: A permit shall not be required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

#### Gas:

1. Portable heating appliance.
2. Replacement of any minor part that does not alter approval of equipment or make such equipment unsafe.

#### Mechanical:

1. Portable heating appliance.
2. Portable ventilation equipment.
3. Portable cooling unit.
4. Steam, hot or chilled water piping within any heating or cooling equipment regulated by this code.

5. Replacement of any part that does not alter its approval or make it unsafe.
6. Portable evaporative cooler.
7. Self-contained refrigeration system containing 10 pounds (5 kg) or less of refrigerant and actuated by motors of 1 horsepower (746 W) or less.

Plumbing:

1. The stopping of leaks in drains, water, soil, waste or vent pipe, provided, however, that if any concealed trap, drain pipe, water, soil, waste or vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and inspection made as provided in this code.
2. The clearing of stoppages or the repairing of leaks in pipes, valves or fixtures and the removal and reinstallation of water closets, provided such repairs do not involve or require the replacement or rearrangement of valves, pipes or fixtures.

105.2.1 Emergency repairs. Where equipment replacements and repairs must be performed in an emergency situation, the permit application shall be submitted within the next working business day to the building official.

105.2.2 Repairs. Application or notice to the building official is not required for ordinary repairs to structures, replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles. Such repairs shall not include the cutting away of any wall, partition or portion thereof, the removal or cutting of any structural beam or load-bearing support, or the removal or change of any required means of egress, or rearrangement of parts of a structure affecting the egress requirements; nor shall ordinary repairs include addition to, alteration of, replacement or relocation of any standpipe, water supply, sewer, drainage, drain leader, gas, soil, waste, vent or similar piping, electric wiring or mechanical or other work affecting public health or general safety.

105.2.3 Public service agencies. A permit shall not be required for the installation, alteration or repair of generation, transmission, distribution or metering or other related equipment that is under the ownership and control of public service agencies by established right.

105.3 Application for permit. To obtain a permit, the applicant shall first file an application therefore in writing on a form furnished by the building division for that purpose. Such application shall:

1. Identify and describe the work to be covered by the permit for which application is made.
2. Describe the land on which the proposed work is to be done by legal description, street address or similar description that will readily identify and definitely locate the proposed building or work.
3. Indicate the use and occupancy for which the proposed work is intended.
4. Be accompanied by construction documents and other information as required in Section 106.
5. State the valuation of the proposed work.
6. Be signed by the applicant, or the applicant's authorized agent.

7. Give such other data and information as required by the building official.
8. Prior to issuance of a permit to move or demolish a building or structure, a minimum \$5,000.00 bond shall be posted to guarantee full compliance with all terms and conditions as specified on the application.
9. Exception: With approval of the building official, small structures that don't pose a hazard may be demolished without posting a bond.

105.3.1 Action on application. The building official shall examine or cause to be examined applications for permits and amendments thereto within a reasonable time after filing. If the application or the construction documents do not conform to the requirements of pertinent laws, the building official shall reject such application in writing, stating the reasons therefore. If the building official is satisfied that the proposed work conforms to the requirements of this code and laws and ordinances applicable thereto, the building official shall issue a permit therefore as soon as practicable.

105.3.2 Time limitation of application. Applications for which no permit is issued within 180 days following the date of application shall expire by limitation, and plans and other data submitted for review may thereafter be returned to the applicant or destroyed by the building official. The building official may extend the time frame for action by the applicant for a period not exceeding 180 days on request by the applicant showing that circumstances beyond the control of the applicant have prevented action from being taken. No application shall be extended more than once. In order to renew action on an application after expiration, the applicant shall resubmit plans and pay a new plan review fee.

105.4 Validity of permit. The issuance or granting of a permit shall not be construed to be a permit for, or an approval of, any violation of any of the provisions of this code or of any other ordinance of the jurisdiction. Permits presuming to give authority to violate or cancel the provisions of this code or other ordinances of the jurisdiction shall not be valid. The issuance of a permit based on construction documents and other data shall not prevent the building official from requiring the correction of errors in the construction documents and other data. The building official is also authorized to prevent occupancy or use of a structure where in violation of this code or of any other ordinances of this jurisdiction.

105.5 Expiration. Every permit issued shall become invalid unless the work on the site authorized by such permit is commenced within 180 days after its issuance, or if the work authorized on the site by such permit is suspended or abandoned for a period of 180 days after the time the work is commenced. In order to renew action on a permit after expiration, the permittee shall pay a new full permit fee.

Any permittee holding an unexpired permit may apply for an extension of the time within which work may commence under that permit when the permittee is unable to commence work within the time required by this section for good and satisfactory reasons. The building official may extend the time for action by the permittee for a period not exceeding 180 days on written request by the permittee showing that circumstances beyond the control of the permittee have prevented action from being taken. No permit shall be extended more than once.

All permits issued by the building official under the provisions of this code expire by limitation and become null and void 18 months after the date of issuance. Any permittee holding an unexpired permit may apply for one 18-month extension when the permittee is unable to complete the permitted work within 18 months of permit issuance. No permit shall be extended more than once.

Exception: Permits of a minor nature (ex. Re-roofing, FAU change out, water heaters, electrical service changes, etc.) expire by limitation and become null and void 6 months after the date of issuance.

**105.6 Suspension or revocation.** The building official is authorized to suspend or revoke a permit issued under the provisions of this code wherever the permit is issued in error or on the basis of incorrect, inaccurate or incomplete information, or in violation of any ordinance or regulation or any of the provisions of this code.

**105.7 Placement of permit.** The building permit or copy shall be kept on the site of the work until the completion of the project.

**105.8 Essential Off-Site and On-Site Improvements--Add as new section:**

Before a building permit shall be issued, provisions shall be made for the installation of essential off-site improvements in the public right-of-way immediately adjacent to the property on which the permit applied for is applicable if such provisions are required by Section 11.12.081 of the Carson City Municipal Code. The building official may require that the general contractor take out all permits required for essential on-site and off-site improvements and that such permits are to be issued at the same time that the building permit is issued.

Such installation of essential improvements shall be completed before the occupancy of the improvement for which the permit was issued.

## **SECTION 106 - CONSTRUCTION DOCUMENTS**

**106.1 Submittal documents.**

Construction documents, statement of special inspections and other data shall be submitted in one or more sets with each permit application. Revisions or additions to plans shall be made on the original drawings and new copies submitted. The construction documents shall be prepared by a registered design professional where required by the statutes of the jurisdiction in which the project is to be constructed. If the building official deems it necessary, plans, computations and specifications may be required to be prepared and designed by an engineer or architect licensed or registered by the state of Nevada to practice as such. Submittals shall include construction inspection requirements as defined in Sections 106.3.4.1 and 109.3.9. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional.

The roof snow load for sites above 5,000 feet elevation is considered as exceeding the tables of limitation for wood-frame construction, and shall be designed in accordance with accepted engineering practice.

Exception: The building official is authorized to waive the submission of construction documents and other data not required to be prepared by a registered design professional if it is found that the nature of the work applied for is such that review of construction documents is not necessary to obtain compliance with this code.

106.1.1 Information on construction documents. Construction documents shall be dimensioned and drawn upon suitable material. Electronic media documents are permitted to be submitted when approved by the building official. Construction documents shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that it will conform to the provisions of this code and relevant laws, ordinances, rules and regulations, as determined by the building official. All plans shall be black line or blue line. Minimum paper size shall be 11 × 17 unless approved by the building official.

106.1.1.1 Fire protection system shop drawings. Shop drawings for the fire protection system(s) shall be submitted to indicate conformance with this code and the construction documents and shall be approved prior to the start of system installation. Shop drawings shall contain all information as required by the referenced installation standards in Chapter 9.

106.1.2 Means of egress. The construction documents shall show in sufficient detail the location, construction, size and character of all portions of the means of egress in compliance with the provisions of this code. In other than occupancies in Groups R-2, R-3, and I-1, the construction documents shall designate the number of occupants to be accommodated on every floor, and in all rooms and spaces.

106.1.3 Exterior wall envelope. Construction documents for all buildings shall describe the exterior wall envelope in sufficient detail to determine compliance with this code. The construction documents shall provide details of the exterior wall envelope as required, including flashing, intersections with dissimilar materials, corners, end details, control joints, intersections at roof, eaves or parapets, means of drainage, water-resistive membrane and details around openings. The construction documents shall include manufacturer's installation instructions that provide supporting documentation that the proposed penetration and opening details described in the construction documents maintain the weather resistance of the exterior wall envelope. The supporting documentation shall fully describe the exterior wall system that was tested, where applicable, as well as the test procedure used.

106.2 Site plan. The construction documents submitted with the application for permit shall be accompanied by a site plan showing to scale the size and location of new construction and existing structures on the site, distances from lot lines, the established street grades and the proposed finished grades and, as applicable, flood hazard areas, floodways, and design flood elevations; and it shall be drawn in accordance with an accurate boundary line survey. In the case of demolition, the site plan shall show construction to be demolished and the location and size of existing structures and construction that are to remain on the site or plot. The building official is authorized to waive or modify the requirement for a site plan when the application for permit is for alteration or repair or when otherwise warranted.

106.3 Examination of documents. The building official shall examine or cause to be examined the accompanying construction documents and shall ascertain by such examinations whether the construction indicated and described is in accordance with the requirements of this code and other pertinent laws or ordinances. ~~[ , except for requirements related to: International Energy Conservation Code, exterior wall envelope construction (non-structural portion), attic and under floor ventilation, location and size of attic and under floor access openings, drain waste and vent (DWV) sizing, HVAC duct sizing, sizing of electrical systems, fixture and furnishing layout including dimensions. However, all requirements related to items that will not be examined shall be included on any and all plans submitted for examination when applicable.]~~

106.3.1 Approval of construction documents. When the building official issues a permit, the construction documents shall be approved, in writing or by stamp, as "Reviewed for Code Compliance." One set of construction documents so reviewed shall be retained by the building official. The other set shall be returned to the applicant, shall be kept at the site of work and shall be open to inspection by the building official or a duly authorized representative.

106.3.2 Previous approvals. This code shall not require changes in the construction documents, construction or designated occupancy of a structure for which a lawful permit has been heretofore issued or otherwise lawfully authorized, and the construction of which has been pursued in good faith within 180 days after the effective date of this code and has not been abandoned.

106.3.3 Phased approval. The building official is authorized to issue a permit for the construction of foundations or any other part of a building or structure before the construction documents for the whole building or structure have been submitted, provided that adequate information and detailed statements have been filed complying with pertinent requirements of this code. The holder of such permit for the foundation or other parts of a building or structure shall proceed at the holder's own risk with the building operation and without assurance that a permit for the entire structure will be granted.

106.3.4 Design professional in responsible charge.

106.3.4.1 General. When it is required that documents be prepared by a registered design professional, the building official shall be authorized to require the owner to engage and designate on the building permit application a registered design professional who shall act as the registered design professional in responsible charge. If the circumstances require, the owner shall designate a substitute registered design professional in responsible charge who shall perform the duties required of the original registered design professional in responsible charge. The building official shall be notified in writing by the owner if the registered design professional in responsible charge is changed or is unable to continue to perform the duties.

The registered design professional in responsible charge shall be responsible for reviewing and coordinating submittal documents prepared by others, including phased and deferred submittal items, for compatibility with the design of the building.

Where structural observation is required by Section 1709, the statement of special inspections shall name the individual or firms who are to perform structural observation and describe the

stages of construction at which structural observation is to occur (see also duties specified in Section 1704).

106.3.4.2 Deferred submittals. For the purposes of this section, deferred submittals are defined as those portions of the design that are not submitted at the time of the application and that are to be submitted to the building official within a specified period.

Deferral of any submittal items shall have the prior approval of the building official. The registered design professional in responsible charge shall list the deferred submittals on the construction documents for review by the building official.

Documents for deferred submittal items shall be submitted to the registered design professional in responsible charge who shall review them and forward them to the building official with a notation indicating that the deferred submittal documents have been reviewed and been found to be in general conformance to the design of the building. The deferred submittal items shall not be installed until the design and submittal documents have been approved by the building official.

106.4 Amended construction documents. Work shall be installed in accordance with the approved construction documents, and any changes made during construction that are not in compliance with the approved construction documents shall be resubmitted for approval as an amended set of construction documents.

106.5 Retention of construction documents. One set of approved construction documents shall be retained by the building official for a period of not less than 180 days from date of completion of the permitted work, or as required by state or local laws.

## **SECTION 107 - TEMPORARY STRUCTURES AND USES**

107.1 General. The building official is authorized to issue a permit for temporary structures and temporary uses. Such permits shall be limited as to time of service, but shall not be permitted for more than 180 days. The building official is authorized to grant extensions for demonstrated cause.

107.2 Conformance. Temporary structures and uses shall conform to the structural strength, fire safety, means of egress, accessibility, light, ventilation and sanitary requirements of this code as necessary to ensure public health, safety and general welfare.

107.3 Temporary power. The building official is authorized to give permission to temporarily supply and use power in part of an electric installation before such installation has been fully completed and the final certificate of completion has been issued. The part covered by the temporary certificate shall comply with the requirements specified for temporary lighting, heat or power in the ICC Electrical Code.

107.4 Termination of approval. The building official is authorized to terminate such permit for a temporary structure or use and to order the temporary structure or use to be discontinued.

## **SECTION 108 – FEES**



108.1 Payment of fees. A permit shall not be valid until the fees prescribed by law have been paid, nor shall an amendment to a permit be released until the additional fee, if any, has been paid.

108.2 Determination of permit fees.

1. Except as otherwise provided in this section the amount of the fee for the issuance of a permit shall be determined as follows:

a. Except as otherwise provided in section 108.3, the Building Official shall estimate the total value of the project for which the permit is to be issued pursuant to the most recently published February version of the Building Valuation Data table, as published by the International Code Council in the publication "Building Safety Journal";

b. The Building Official shall multiply the estimated total value of the project by:

- a. For a residential project, .015; or
- b. For a non-residential project; .01.

2. The amount of the fee for the issuance of a permit for residential construction project in which a standard plan will be used for more than one project in the same subdivision shall be determined as follows:

- a. For the first project to be constructed pursuant to the plan, pursuant to the method for determining the fee set forth in subsection 1; and
- b. For the second and each subsequent project to be constructed pursuant to the plan, multiplying the amount of fee determined pursuant to subsection 1 by eighty percent (80%).

3. Forty percent (40%) of the fee determined pursuant to this section shall be due upon the submission of the plan to the Building Official for plan review and processing. The remaining sixty percent (60%) of the fee determined pursuant to this section shall be due prior to the issuance of a permit.

4. The minimum permit fee shall be \$65.00.

5. If a project requires inspection outside the time of ordinary business hours, reinspection pursuant to the provisions of Section 109.7, an inspection for which no fee is otherwise specified, additional plan review required by changes, additions or revisions to plans or the use of outside consultations for plan review or inspection, the fee for such services shall be determined pursuant to the following schedule:

TABLE INSET:

OTHER INSPECTIONS	FEES
-------------------	------

<b>1. Inspection outside of normal business hours (Minimum charge--two hours)</b>	<b>\$65.00 per hour*</b>
<b>2. Reinspection fees assessed under provisions of Section 109.7</b>	<b>\$65.00 per hour*</b>
<b>3. Inspections for which no fee is specifically indicated (Minimum charge--one-half hour)</b>	<b>\$65.00 per hour*</b>
<b>4. Additional plan review required by changes, additions or revisions to plans (Minimum charge--one-half hour)</b>	<b>\$65.00 per hour*</b>
<b>5. For use of outside consultants for plan checking and inspections, or both actual costs**</b>	

\* Or the total hourly cost to the jurisdiction, whichever is the greatest. This cost shall include supervision, overhead, equipment, hourly wages and fringe benefits of the employees involved.

\*\* Actual costs include administrative and overhead costs.

6. The fee for the review of a grading plan and the fee for the issuance of a grading permit shall be determined pursuant to the following schedule:

#### **GRADING PLAN REVIEW FEES 1**

TABLE INSET:

50 cubic yards (38.2 m <sup>3</sup> ) or less	No fee
51 to 100 cubic yards (40 to 76.5 m <sup>3</sup> )	\$23.50
101 to 1,000 cubic yards (77.2 to 764.6 m <sup>3</sup> )	\$37.00
1,001 to 10,000 cubic yards (765.3 to 7,645.5 m <sup>3</sup> )	\$49.25
10,001 to 100,000 cubic yards (7,646.3 to 76,455 m <sup>3</sup> )	\$49.25 for the first 10,000 cubic yards (7,645.5 m <sup>3</sup> ), plus \$24.50 for each additional 10,000 cubic yards (7,645.5 m <sup>3</sup> ) or fraction thereof
100,001 to 200,000 cubic yards (76,456 to 152,911 m <sup>3</sup> )	\$269.75 for the first 100,000 cubic yards (76,455 m <sup>3</sup> ), plus \$13.25 for each additional 10,000 cubic yards (7,645.5 m <sup>3</sup> ) or fraction thereof
200,001 cubic yards (152,912 m <sup>3</sup> ) or more	\$402.25 for the first 200,000 cubic yards (152,911 m <sup>3</sup> ), plus \$7.25 for each additional 10,000 cubic yards (7,645.5 m <sup>3</sup> ) or fraction thereof
<b>OTHER FEES</b>	

Additional plan review required by changes, additions or revisions to plans or to plans for which an initial review has been completed, per hour	\$65.00
--	---------

1. For excavation and fill on the same site, the fee shall be based on the volume of excavation or fill, whichever is greater.

### GRADING PERMIT FEES 1

TABLE INSET:

50 cubic yards (38.2 m <sup>3</sup> ) or less	\$23.50
51 to 100 cubic yards (40 to 76.5 m <sup>3</sup> )	\$37.00
101 to 1,000 cubic yards (77.2 to 764.6 m <sup>3</sup> )	\$37.00 for the first 100 cubic yards (76.5 m <sup>3</sup> ), plus \$17.50 for each additional 100 cubic yards (76.5 m <sup>3</sup> ) or fraction thereof
1,001 to 10,000 cubic yards (765.3 to 7,645.5 m <sup>3</sup> )	\$194.50 for the first 1,000 cubic yards (764.6 m <sup>3</sup> ), plus \$14.50 for each additional 1,000 cubic yards (764.6 m <sup>3</sup> ) or fraction thereof
10,001 to 100,000 cubic yards (7,646.3 to 76,455 m <sup>3</sup> )	\$325.00 for the first 10,000 cubic yards (7,645.5 m <sup>3</sup> ), plus \$66.00 for each additional 10,000 cubic yards (7,645.5 m <sup>3</sup> ) or fraction thereof
100,001 yards (76,456 m <sup>3</sup> ) or more	\$919.00 for the first 100,000 cubic yards (76,455 m <sup>3</sup> ), plus \$36.50 for each additional 10,000 cubic yards (7,645.5 m <sup>3</sup> ) or fraction thereof
<b>OTHER INSPECTIONS</b>	<b>FEES</b>
1. Inspections outside of normal business hours, per hour (minimum charge--two hours)	\$85.00
2. Reinspection per hour (minimum charge--one-half hour)	\$65.00
3. Inspections for which no fee is specifically indicated, per hour (minimum charge--one-half hour)	\$65.00

1. For excavation and fill on the same site, the fee shall be based on the volume of excavation or fill, whichever is greater.

108.3 Building permit valuations. The applicant for a permit shall provide an estimated permit value at time of application. Permit valuations shall include total value of work, including materials and labor, for which the permit is being issued, such as electrical, gas, mechanical, plumbing equipment and permanent systems. If, in the opinion of the building official, the valuation is underestimated on the application, the permit shall be denied, unless the applicant can show detailed estimates to meet the approval of the building official. Final building permit valuation shall be set by the building official.

108.4 Work commencing before permit issuance. Any person who commences any work on a building, structure, electrical, gas, mechanical or plumbing system before obtaining the necessary permits shall be subject to a fee established by the building official that shall be in addition to the required permit fees. An investigation fee, in addition to the permit fee, shall be collected whether or not a permit is then or subsequently issued. The investigation fee shall be equal to the amount of the permit fee. The payment of such investigation fee shall not exempt any person from compliance with all other provisions of this code nor from any penalty prescribed by law.

108.5 Related fees. The payment of the fee for the construction, alteration, removal or demolition for work done in connection to or concurrently with the work authorized by a building permit shall not relieve the applicant or holder of the permit from the payment of other fees that are prescribed by law.

108.6 Refunds. The building official may authorize refunding of any fee paid hereunder which was erroneously paid or collected. The building official may authorize refunding of not more than eighty percent (80%) of the permit fee paid when no work has been done under a permit issued in accordance with this code.

The building official may authorize refunding of not more than eighty percent (80%) of the plan review fee paid when an application for a permit for which a plan review fee has been paid is withdrawn or cancelled before any plan review is done. The building official shall not authorize refunding of any fee paid except on written application filed by the original permittee not later than one hundred eighty (180) days after the date of fee payment.

108.7 Disaster Relief. After the occurrence of a natural disaster which results in the declaration of a major disaster by the Carson City board of supervisors, the building official may waive, reduce or rebate fees which would be due or which have been paid for permits, reviews or inspections, if the application or plans being submitted or the work being done results directly from the natural disaster.

## **SECTION 109 - INSPECTIONS**

109.1 General. Construction or work for which a permit is required shall be subject to inspection by the building official and such construction or work shall remain accessible and exposed for inspection purposes until approved. Approval as a result of an inspection shall not be construed to be an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. Inspections presuming to give authority to violate or cancel the provisions of this

code or of other ordinances of the jurisdiction shall not be valid. It shall be the duty of the permit applicant to cause the work to remain accessible and exposed for inspection purposes. Neither the building official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection. The address of the building shall be posted by the contractor in the location designated by the building official.

109.2 Preliminary inspection. Before issuing a permit, the building official is authorized to examine or cause to be examined buildings, structures and sites for which an application has been filed.

109.3 Required inspections. The building official, upon notification, shall make the inspections set forth in Sections 109.3.1 through 109.3.12.

109.3.1 Footing and foundation inspection. Footing and foundation inspections shall be made after excavations for footings are complete and any required reinforcing steel is in place. For concrete foundations, any required forms shall be in place prior to inspection. Materials for the foundation shall be on the job, except where concrete is ready mixed in accordance with ASTM C 94, the concrete need not be on the job. Approved property corners shall be in place at time of foundation inspection unless otherwise approved by the building official.

109.3.2 Concrete slab and under-floor inspection. Concrete slab and under-floor inspections shall be made after in-slab or under-floor reinforcing steel and building service equipment, conduit, piping accessories and other ancillary equipment items are in place, but before any concrete is placed or floor sheathing installed, including the subfloor.

109.3.3 Lowest floor elevation. In flood hazard areas, upon placement of the lowest floor, including the basement, and prior to further vertical construction, the elevation certification required in Section 1612.5 shall be submitted to the building official.

109.3.4 Exterior shear wall inspection. To be made prior to the application of exterior siding or cover.

109.3.5 Roof Nail Inspection. Roof nail inspection to be made after the roof sheathing is fastened to the roof structural framing components and before the underlay and roof covering is installed. Roof nailing inspections will be done at the discretion of the building official based on diaphragm design and structural straps.

109.3.6 Frame inspection. Framing inspections shall be made after the roof deck or sheathing, all framing, fire blocking and bracing are in place and pipes, chimneys and vents to be concealed are complete and the rough electrical, plumbing, heating wires, pipes and ducts are approved. The roof and walls shall be made weather tight prior to frame inspection.

109.3.7 Insulation inspection. Insulation inspection to be made after rough frame, plumbing, mechanical and electrical inspections have been approved.

109.3.8 Lath and gypsum board inspection. Lath and gypsum board inspections shall be made after lathing and gypsum board, interior and exterior, is in place, but before any plastering is applied or gypsum board joints and fasteners are taped and finished.

109.3.9 Fire-resistant assemblies and penetrations. Fire-resistant assemblies and protection of joints and penetrations in fire-resistance-rated assemblies shall not be concealed from view until inspected and approved.

109.3.10 Energy efficiency inspections. Inspections shall be made to determine compliance with Chapter 13 and shall include, but not be limited to, inspections for: envelope insulation R and U values, fenestration U-value, duct system R-value, and HVAC and water-heating equipment efficiency.

109.3.11 Other inspections. In addition to the inspections specified above, the building official is authorized to make or require other inspections of any construction work to ascertain compliance with the provisions of this code and other laws that are enforced by the building division.

109.3.12 Special inspections. For special inspections, see Section 1704.

109.3.13 Final inspection. The final inspection shall be made after all work required by the building permit is completed.

109.4 Inspection agencies. The building official is authorized to accept reports of approved inspection agencies, provided such agencies satisfy the requirements as to qualifications and reliability.

109.5 Inspection requests. It shall be the duty of the holder of the building permit or their duly authorized agent to notify the building official when work is ready for inspection. It shall be the duty of the permit holder to provide access to and means for inspections of such work that are required by this code.

109.6 Approval required. Work shall not be done beyond the point indicated in each successive inspection without first obtaining the approval of the building official. The building official, upon notification, shall make the requested inspections and shall either indicate the portion of the construction that is satisfactory as completed, or notify the permit holder or his or her agent wherein the same fails to comply with this code. Any portions that do not comply shall be corrected and such portion shall not be covered or concealed until authorized by the building official.

109.7 Reinspections. A reinspection fee may be assessed for each inspection or reinspection when such portion of work for which inspection is called is not complete or when corrections called for are not made. This section is not to be interpreted as requiring reinspection fees for the first time a job is rejected for failure to comply with the requirements of the technical codes, but as controlling the practice of calling for inspections before the job is ready for such inspection or reinspection. Reinspection fees may be assessed when the inspection record card is not posted or otherwise available on the work site, the approved plans are not readily available to the

inspector, for failure to provide access on the date for which inspection is requested, or for deviating from plans requiring the approval of the building official.

To obtain a reinspection, the applicant shall pay the reinspection fee as set forth in the fee schedules in Section 108.2. In instances where reinspection fees have been assessed, additional inspection of the work will not be performed until the required fees have been paid.

## **SECTION 110 - CERTIFICATE OF OCCUPANCY**

**110.1 Use and occupancy.** No building or structure shall be used or occupied, and no change in the existing occupancy classification of a building or structure or portion thereof shall be made until the building official has issued a certificate of occupancy therefore as provided herein. Issuance of a certificate of occupancy shall not be construed as an approval of a violation of the provisions of this code or of other ordinances of the jurisdiction. No final inspection or approvals by the building division, for use or occupancy of any structure permitted by this chapter, shall be granted until final inspections and approvals are obtained from all other city departments which have imposed requirements for the project.

**110.2 Certificate issued.** After the building official inspects the building or structure and finds no violations of the provisions of this code or other laws that are enforced by the department of building safety, the building official shall issue a certificate of occupancy that contains the following:

1. The building permit number.
2. The address of the structure.
3. The name and address of the owner.
4. A description of that portion of the structure for which the certificate is issued.
5. A statement that the described portion of the structure has been inspected for compliance with the requirements of this code for the occupancy and division of occupancy and the use for which the proposed occupancy is classified.
6. The name of the building official.
7. The edition of the code under which the permit was issued.
8. The use and occupancy, in accordance with the provisions of Chapter 3.
9. The type of construction as defined in Chapter 6.
10. The design occupant load.
11. If an automatic sprinkler system is provided, whether the sprinkler system is required.
12. Any special stipulations and conditions of the building permit.

**110.3 Temporary occupancy.** The building official is authorized to issue a temporary certificate of occupancy before the completion of the entire work covered by the permit, provided that such portion or portions shall be occupied safely. The building official shall set a time period during which the temporary certificate of occupancy is valid.

**110.4 Revocation.** The building official is authorized to, in writing, suspend or revoke a certificate of occupancy or completion issued under the provisions of this code wherever the certificate is issued in error, or on the basis of incorrect information supplied, or where it is

determined that the building or structure or portion thereof is in violation of any ordinance or regulation or any of the provisions of this code.

## **SECTION 111 - SERVICE UTILITIES**

111.1 Connection of service utilities. No person shall make connections from a utility, source of energy, fuel or power to any building or system that is regulated by this code for which a permit is required, until released by the building official.

111.2 Temporary connection. The building official shall have the authority to authorize the temporary connection of the building or system to the utility source of energy, fuel or power.

111.3 Authority to disconnect service utilities. The building official shall have the authority to authorize disconnection of utility service to the building, structure or system regulated by this code and the codes referenced in case of emergency where necessary to eliminate an immediate hazard to life or property. The building official shall notify the serving utility, and wherever possible the owner and occupant of the building, structure or service system of the decision to disconnect prior to taking such action. If not notified prior to disconnecting, the owner or occupant of the building, structure or service system shall be notified in writing, as soon as practical thereafter.

## **SECTION 112 - BOARD OF APPEALS**

112.1 General. In order to hear and decide appeals of orders, decisions or determinations made by the building official relative to the application and interpretation of this code, there shall be and is hereby created a board of appeals. The board of appeals shall be appointed by the governing body and shall hold office at its pleasure. The board shall adopt rules of procedure for conducting its business. The board consists of five (5) members who are appointed by the board of supervisors as follows:

- a) One (1) architect registered by the state of Nevada;
- b) One (1) general building contractor licensed by the state of Nevada;
- c) One (1) mechanical engineer licensed by the state of Nevada;
- d) One (1) structural/civil engineer licensed by the state of Nevada; and
- e) One (1) electrical engineer licensed by the state of Nevada.

112.2 Limitations on authority. An application for appeal shall be based on a claim that the true intent of this code or the rules legally adopted there under have been incorrectly interpreted, the provisions of this code do not fully apply or an equally good or better form of construction is proposed. The board shall have no authority to waive requirements of this code.

112.3 Qualifications. The board of appeals shall consist of members who are qualified by experience and training to pass on matters pertaining to building construction and are not employees of the jurisdiction.



112.4 Terms. The terms of the members of the Board of Appeals shall be:

a) For the member appointed as an architect registered by the state of Nevada, a term of 2 years. The initial term for this member shall begin January 1, 2008 and end January 1, 2010.

b) For the member appointed as a general building contractor licensed by the state of Nevada, a term of 2 years. The initial term for this member shall begin January 1, 2008 and end January 1, 2010.

c) Except as otherwise provided in this paragraph, for the member appointed as a mechanical engineer licensed by the state of Nevada, a term of 2 years. The initial term for this member shall begin January 1, 2008 and end January 1, 2011.

d) Except as otherwise provided in this paragraph, for the member appointed as a structural/civil engineer licensed by the state of Nevada, a term of 2 years. The initial term for this member shall be a term of 3 years and shall begin January 1, 2008 and end January 1, 2011.

e) Except as otherwise provided in this paragraph, for the member appointed as a electrical engineer licensed by the state of Nevada, a term of 2 years. The initial term for this member shall be a term of 3 years and shall begin January 1, 2008 and end January 1, 2011.

## **SECTION 113 – VIOLATIONS**

113.1 Unlawful acts. It shall be unlawful for any person, firm or corporation to erect, construct, alter, extend, repair, move, remove, demolish or occupy any building, structure or equipment regulated by this code, or cause same to be done, in conflict with or in violation of any of the provisions of this code.

113.2 Notice of violation. The building official is authorized to serve a notice of violation or order on the person responsible for the erection, construction, alteration, extension, repair, moving, removal, demolition or occupancy of a building or structure in violation of the provisions of this code, or in violation of a permit or certificate issued under the provisions of this code. Such order shall direct the discontinuance of the illegal action or condition and the abatement of the violation.

113.3 Prosecution of violation. If the notice of violation is not complied with promptly, the building official is authorized to request the legal counsel of the jurisdiction to institute the appropriate proceeding at law or in equity to restrain, correct or abate such violation, or to require the removal or termination of the unlawful occupancy of the building or structure in violation of the provisions of this code or of the order or direction made pursuant thereto.

113.4 Violation penalties. Any person who violates a provision of this code or fails to comply with any of the requirements thereof or who erects, constructs, alters or repairs a building or structure in violation of the approved construction documents or directive of the building official, or of a permit or certificate issued under the provisions of this code, shall be subject to penalties as prescribed by law. Any person, firm or corporation violating any of the provisions of this code is deemed guilty of a misdemeanor, and each person is guilty of a separate offense for each and every day or portion thereof during which any violation of the provisions of this code is committed, continued or permitted. Upon conviction of any such violation such person shall be punished by a fine of not more than one thousand dollars (\$1,000.00), or by imprisonment for not more than six (6) months, or by both such fine and imprisonment.

The building official or his authorized inspectors or employees may issue misdemeanor citations for the violations.

## **SECTION 114 - STOP WORK ORDER**

114.1 Authority. Whenever the building official finds any work regulated by this code being performed in a manner either contrary to the provisions of this code or dangerous or unsafe, the building official is authorized to issue a stop work order.

114.2 Issuance. The stop work order shall be in writing and shall be given to the owner of the property involved, or to the owner's agent, or to the person doing the work. Upon issuance of a stop work order, the cited work shall immediately cease. The stop work order shall state the reason for the order, and the conditions under which the cited work will be permitted to resume.

114.3 Unlawful continuance. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to penalties as prescribed by law.

## **SECTION 115 - UNSAFE STRUCTURES AND EQUIPMENT**

115.1 Conditions. Structures or existing equipment that are or hereafter become unsafe, unsanitary or deficient because of inadequate means of egress facilities, inadequate light and ventilation, or which constitute a fire hazard, or are otherwise dangerous to human life or the public welfare, or that involve illegal or improper occupancy or inadequate maintenance, shall be deemed an unsafe condition. Unsafe structures shall be taken down and removed or made safe, as the building official deems necessary and as provided for in this section. A vacant structure that is not secured against entry shall be deemed unsafe.

115.2 Record. The building official shall cause a report to be filed on an unsafe condition. The report shall state the occupancy of the structure and the nature of the unsafe condition.

115.3 Notice. If an unsafe condition is found, the building official shall serve on the owner, agent or person in control of the structure, a written notice that describes the condition deemed unsafe and specifies the required repairs or improvements to be made to abate the unsafe condition, or that requires the unsafe structure to be demolished within a stipulated time. Such notice shall require the person thus notified to declare immediately to the building official acceptance or rejection of the terms of the order.

115.4 Method of service. Such notice shall be deemed properly served if a copy thereof is (a) delivered to the owner personally; (b) sent by certified or registered mail addressed to the owner at the last known address with the return receipt requested; or (c) delivered in any other manner as prescribed by local law. If the certified or registered letter is returned showing that the letter was not delivered, a copy thereof shall be posted in a conspicuous place in or about the structure affected by such notice. Service of such notice in the foregoing manner upon the owner's agent or upon the person responsible for the structure shall constitute service of notice upon the owner.

115.5 Restoration. The structure or equipment determined to be unsafe by the building official is permitted to be restored to a safe condition. To the extent that repairs, alterations or additions are made or a change of occupancy occurs during the restoration of the structure, such repairs, alterations, additions or change of occupancy shall comply with the requirements of Section 105.2.2 and Chapter 34.

## **SECTION 116 - WORKMANSHIP AND FABRICATION**

116.1 Workmanship and Fabrication. All design, construction and workmanship shall be in conformity with accepted engineering and good trade practice and be of such character as to secure the results sought to be obtained by this code.

## **SECTION 117 - MOVING AND DEMOLITION**

117.1 Moving and Demolition. Except as otherwise provided, it shall be unlawful for any person to move any existing building or structure of any kind or description into or within Carson City, or demolish a building or structure without a permit to move or demolish a building or structure as hereinafter provided. This section does not apply to mobile homes, trailers or other structures permanently affixed on wheels. Application for a permit to move or demolish a building or structure shall be filed as provided for in Section 105.3.

## **SECTION II:**

That no other provisions of the Carson City Municipal Code are affected by this ordinance.

PROPOSED December 3, 2009

PROPOSED BY \_\_\_\_\_

PASSED \_\_\_\_\_ (Month) \_\_\_\_\_ (Day), 2009.

# **2011 NORTHERN NEVADA AMENDMENTS**

**2009 INTERNATIONAL ENERGY CONSERVATION CODE**

**2006 INTERNATIONAL RESIDENTIAL CODE  
(ENERGY PROVISIONS)**

**Published by the Northern Nevada Chapter of the International Code Council:  
March 30, 2012**

Carson City  
108 E Proctor St.  
Carson City, NV 89701

City of Sparks  
431 Prater Way  
Sparks, NV 89431

BANN  
5484 Corporate Dr.  
Suite 100  
Reno, NV 89511

City of Fernley  
595 Silver Lace Blvd.  
Fernley, NV 89408

Washoe County  
1001 E. Ninth Street  
Reno, NV 89512

City of Reno  
450 Sinclair Street  
Reno, NV 89505

ABC  
240 S Rock Blvd.  
Suite 121  
Reno, NV 89502

AGC  
5400 Mill Street  
Reno, NV 89502

Storey County  
110 Toll Road  
Virginia City, NV 89440

## **PREFACE**

This document comprises the Northern Nevada Amendments to the following codes:

2009 International Energy Conservation Code as published by the International Code Council.

Chapter 11 of the 2006 International Residential Code as published by the International Code Council.

It was created by the organizations listed on the cover page with the support of the Northern Nevada Chapter of the International Code Council as a document to be adopted by reference. These provisions are not code unless adopted and codified by governmental jurisdictions. This document is available to be adopted as code by any jurisdiction without permission or approval from the organizations listed.

To obtain copies of this document, please contact the Northern Nevada Chapter of the International Code Council at PO Box 2481 Reno, NV 89505 or visit [nnicc.org](http://nnicc.org).

**Note:** Deleted language has been ~~stricken through~~.  
Added language has been underlined.

## TABLE OF CONTENTS

### 2009 International Energy Conservation Code

Section 101.4.3 Additions, alterations, renovations or repairs. . . . .	4
Section 202 Definitions. . . . .	4
Section 303.1.3 Fenestration product rating . . . . .	5
Section 303.1.3.2 Construction site rating documentation . . . . .	5
Section 401.3 Certificate . . . . .	6
Section 402.2.9 Crawl space walls . . . . .	7
Section 403.2.2 Sealing (Mandatory) . . . . .	7
Section 403.2.2.1 Joints and seams. . . . .	8
Section 403.6 Equipment sizing (Mandatory). . . . .	8
Section 405.6.1 Minimum capabilities . . . . .	8
Section 503.2.5.1 Demand controlled ventilation . . . . .	9
Section 503.2.7 Duct and plenum insulation and sealing . . . . .	10
Section 505.2.1 Interior lighting controls. . . . .	11
Section 505.2.2 Additional controls. . . . .	11
Section 505.2.3 Daylight zone control. . . . .	11
Section 505.5.1 Total connected interior power . . . . .	12
Section 505.6.2 Exterior building lighting power . . . . .	13
Chapter 6. . . . .	14

### 2006 International Residential Code

Chapter 11 . . . . .	14
----------------------	----

## 2009 International Energy Conservation Code

### Section 101.4.3 Additions, alterations, renovations or repairs.

*Add the following exception to section 101.4.3:*

9. Relocations only of existing luminaries within an existing area enclosed by walls or floor to ceiling partitions.

### Section 202 Definitions.

*Amend section 202 to include the following definitions:*

**CASINO.** A business with a Non-restricted Gaming License from the Nevada Gaming Commission and State Gaming Control Board. It includes the gaming area(s) as well as the adjacent areas within the building envelope.

**CASINO GAMING AREA.** The space within a *casino* wherein gaming is conducted. The gaming area shall also include accessory uses within the same room(s) as, or substantially open to the gaming floor(s). Such areas shall include, but not be limited to lobbies, balconies, public circulation areas, assembly areas, restaurants, bars, lounges, food courts, retail spaces, mezzanines, convention pre-function areas, cashiers' cages, players' clubs, customer support, conservatories and promenades that share the same atmosphere, spillover lighting and theme lighting with the adjacent gaming floor area.

**OCCUPANT SENSOR (LIGHTING).** A device that detects the presence or absence of people within an area and causes lighting to be regulated accordingly. The term "occupant sensor" applies to a device that controls indoor lighting systems. When the device is used to control outdoor lighting systems, it is defined as a motion sensor. This definition also applies to "occupancy sensor" and "occupant-sensing device".

**VAPOR RETARDER CLASS.** A measure of a material or assembly's ability to limit the amount of moisture that passes through that material or assembly. Vapor retarder class shall be defined using the desiccant method of ASTM E 96 as follows:

**Class I:** 0.1 perm or less.

**Class II:**  $0.1 < \text{perm} \leq 1.0$  perm.

**Class III:**  $1.0 < \text{perm} \leq 10$  perm.

### **Section 303.1.3 Fenestration product rating.**

*Amend section 303.1.3 to read as follows:*

**303.1.3 Fenestration product rating.** *U*-factors of fenestration products (windows, doors and skylights) shall be determined in accordance with NFRC 100 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled *U*-factor shall be assigned a default *U*-factor from Tables 303.1.3(1) or 303.1.3(2) or ASHRAE 90.1 Tables A-8.1 A and B or Table 8.2. The solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled *U*-factor shall be assigned a default *U*-factor from Tables 303.1.3(1) or 303.1.3(2) or ASHRAE 90.1 Tables A-8.1 A or Table 8.2. The solar heat gain coefficient (SHGC) of glazed fenestration products (windows, glazed doors and skylights) shall be determined in accordance with NFRC 200 by an accredited, independent laboratory, and labeled and certified by the manufacturer. Products lacking such a labeled SHGC shall be assigned a default SHGC from Table 303.1.3(3) or from ASHRAE 90.1 Tables A-8.1 B or Table 8.2.

*Add two new subsections to Section 303.1.3:*

**303.1.3.1 Fenestration rating documentation.** When required by the building official all fenestration products to be used in a project are to be listed in a fenestration schedule on the approved plans. This schedule shall include all of the following:

1. A list of all fenestrations, including, but not limited to, fixed and operable windows, skylights, sliding, swinging and overhead doors and glass block.
2. The manufacturer and model numbers for all non-default fenestration products, including NFRC CDP numbers.
3. For site-built windows, simulation report reference numbers provided by an NFRC certification for fenestration products.
4. The fenestration type, size, quantity, NFRC 100 certified *U*-factor or default *U*-factor. (If default *U*-factor is used, the schedule must also include a description of the key energy-efficiency features that are necessary to achieve that default *U*-factor.)
5. The solar heat gain coefficient for each fenestration proposed, using either the NFRC 200 certified value or the default value.

**303.1.3.2 Construction site rating documentation.** When required by the building official the following documentation shall be provided at the construction site prior to inspection of the thermal energy envelope:

1. All NFRC certified factory-built fenestration products shall be labeled with the NFRC certification label. This label is to remain intact on the fenestration unit until inspected by the jurisdiction having authority.



2. For rated site-built fenestration products, there shall be a separate NFRC label certificate for each type of fenestration product used in the project, signed by an independent, NFRC certified inspection agency. The label will display the following information:
  - a) The NFRC certification logo.
  - b) The name, address and authorized NFRC approved inspection agency
  - c) The product ratings (U-factor, solar heat gain coefficient and visible light transmittance).
  - d) The name, address, and permit number of the project.
  - e) The product line information.
  - f) The names and addresses for the suppliers of the frame, the glazing and the contractor.
  - g) The printed name and signature of the inspector for the certified inspection agency.
3. For site-built fenestration products where default values were listed on the approved plans, the glazing contractor of record will provide the jurisdiction, a letter on company stationery, containing the following information:
  - a) The name, address and permit number of the project.
  - b) An itemized list of documentation describing specific components used to construct each type of fenestration.
  - c) The signature of the owner or owner's agent of the glazing company, attesting to the fact that all products described and documentation submitted were used on that jobsite.

### Section 401.3 Certificate.

*Amend section 401.3 to read as follows:*

**401.3 Certificate.** ~~A permanent~~ The builder shall provide to the owner a certificate shall be posted on or near the electrical distribution panel approved by the jurisdiction. The certificate shall not cover or obstruct the visibility of the circuit directory label, service disconnect label or other required labels. The certificate shall be completed by the builder or registered design professional. The certificate shall list the predominant R-values of insulation installed in or on ceiling/roof, walls, foundation (slab, basement wall, crawlspace wall and/or floor) and ducts outside conditioned spaces and U-factors for fenestration. Where there is more than one value for each component, the certificate shall list the value covering the largest area. The certificate shall list the types and efficiencies of heating, cooling and service water heating equipment. Where a gas-fired unvented room heater, electric furnace, or baseboard electric heater is installed in the residence, the certificate shall list "gas-fired unvented room heater," "electric furnace" or "baseboard electric heater," as appropriate. An efficiency shall not be listed for gas-fired unvented room heaters, electric furnaces or electric baseboard heaters.

#### **Section 402.2.9 Crawl space walls.**

*Amend section 402.2.9 to read as follows:*

**402.2.9 Crawl space walls.** As an alternative to insulating floors over crawl spaces, crawl space walls shall be permitted to be insulated when the crawl space is not vented to the outside. Crawl space wall insulation shall be permanently fastened to the wall and extend downward from the floor to the finished grade level and then vertically and/or horizontally for at least an additional 24 inches (610 mm). Exposed earth in unvented crawl space foundations shall be covered with a continuous Class I vapor retarder ~~in accordance with the International Building Code.~~ All joints of the vapor retarder shall overlap by 6 inches (153 mm) and be sealed or taped. The edges of the vapor retarder shall extend at least 6 inches (153 mm) up the stem wall and shall be attached to the stem wall.

#### **Section 403.2.2 Sealing (Mandatory).**

*Amend section 403.2.2 to read as follows:*

**403.2.2 Sealing (Mandatory).** All ducts, air handlers, filter boxes and building cavities used as ducts shall be sealed. Joints and seams shall comply with Section 403.2.2.1 ~~M1601.4.1 of the International Residential Code.~~

Duct tightness shall be verified by either of the following:

1. Post construction test: Leakage to outdoors shall be less than or equal to 8 cfm (226.5 L/min) per 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) of *conditioned floor area* or a total leakage less than or equal to 12 cfm (12 L/min) per 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) of *conditioned floor area* when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the entire system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test.
2. Rough-in test: Total leakage shall be less than or equal to 6 cfm (169.9 L/min) per 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) of *conditioned floor area* when tested at a pressure differential of 0.1 inches w.g. (25 Pa) across the roughed in system, including the manufacturer's air handler enclosure. All register boots shall be taped or otherwise sealed during the test. If the air handler is not installed at the time of the test, total leakage shall be less than or equal to 4 cfm (113.3 L/min) per 100 ft<sup>2</sup> (9.29 m<sup>2</sup>) of *conditioned floor area*.

**Exceptions:** Duct tightness test is not required if the air handler and all ducts are located within *conditioned space*.

#### **Section 403.2.2.1 Joints and seams.**

*Add the following subsection to Section R403.2.2:*

**403.2.2.1 Joints and seams.** Joints of *duct systems* shall be made substantially airtight by means of tapes, mastics, liquid sealants, gasketing or other *approved* closure systems. Closure systems used with rigid fibrous glass ducts shall comply with UL181A and shall be marked 181A-P for pressure-sensitive tape, 181A-M for mastic or 181 A-H for heat-sensitive tape. Closure systems used with flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked 181B-FX for pressure-sensitive tape or 181B-M for mastic. Duct connections to flanges of air distribution system *equipment* or sheet metal fittings shall be mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked 181B-C. Crimp joints for round metal ducts shall have a contact lap of at least 1½ inches (38 mm) and shall be mechanically fastened by means of at least three sheet-metal screws or rivets equally spaced around the joint. Closure systems used to seal metal ductwork shall be installed in accordance with the manufacturer' installation instructions. Joints between plastic ducts and plastic fittings shall be made in accordance with the manufacturer's installation instructions.

#### **Exceptions:**

1. Spray polyurethane foam shall be permitted to be applied without additional joint seals.
2. Where a duct connection is made that is partially inaccessible, three screws or rivets shall be equally spaced on the exposed portion of the joint so as to prevent a hinge effect.
3. Continuously welded and locking type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.

#### **Section 403.6 Equipment sizing (Mandatory).**

*Amend section 403.6 to read as follows:*

**403.6 Equipment sizing (Mandatory).** Heating and cooling equipment shall be sized in accordance with ~~Section M1401.3 of the International Residential Code~~ ACCA manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculations methodologies.

#### **Section 405.6.1 Minimum capabilities.**

*Amend section 405.6.1 to read as follows:*

**405.6.1 Minimum capabilities.** Calculation procedures used to comply with this section shall be software tools capable of calculating the annual energy consumption of all building elements that differ between the *standard reference design* and the *proposed design* and shall include the following capabilities:

1. Computer generation of the *standard reference design* using only the input for the *proposed design*. The calculation procedure shall not allow the user to directly modify the building component characteristics of the *standard reference design*.
2. Calculation of whole-building (as a single zone) sizing for the heating and cooling equipment in the *standard reference design* residence in accordance with ~~Section M1401.3 of the International Residential Code~~ ACCA Manual S based on building loads calculated in accordance with ACCA Manual J or other approved heating and cooling calculation methodologies.
3. Calculations that account for the effects of indoor and outdoor temperatures and part-load ratios on the performance of heating, ventilating and air-conditioning equipment based on climate and equipment sizing.
4. Printed *code official* inspection checklist listing each of the *proposed design* component characteristics from Table 405.5.2(1) determined by the analysis to provide compliance, along with their respective performance ratings (e.g., R-value, U-factor, SHGC, HSPF, AFUE, SEER, EF, etc.).

#### **Section 503.2.5.1 Demand controlled ventilation.**

*Amend section 503.2.5.1 to read as follows:*

**503.2.5.1 Demand controlled ventilation.** Demand control ventilation (DCV) is required for spaces larger than 500 ft<sup>2</sup> (50m<sup>2</sup>) and with an average occupant load of 40 people per 1000 ft<sup>2</sup> (93 m<sup>2</sup>) of floor area (as established in ~~Table 403.3 of the International Mechanical Code~~) and served by systems with one or more of the following:

1. An air-side economizer;
2. Automatic modulating control of the outdoor air damper; or
3. A design outdoor airflow greater than 3,000 cfm (1400 L/s).

#### **Exceptions:**

1. Systems with energy recovery complying with Section 503.2.6.

2. Multiple-zone systems without direct digital control of individual zones communicating with a central control panel.
3. System with a design outdoor airflow less than 1,200 cfm (600 L/s).
4. Spaces where the supply airflow rate minus any makeup or outgoing transfer air requirement is less than 1,200 cfm (600 L/s).

### **Section 503.2.7 Duct and plenum insulation and sealing**

*Amend section 503.2.7 to read as follows:*

**503.2.7 Duct and plenum insulation and sealing.** All supply and return air ducts and plenums shall be insulated with a minimum of R-5 insulation when located in unconditioned spaces and a minimum of R-8 insulation when located outside the building. When located within a building envelope assembly, the duct or plenum shall be separated from the building exterior or unconditioned or exempt spaces by a minimum of R-8 insulation.

#### **Exceptions:**

1. When located within equipment.
2. When the design temperature difference between the interior and exterior of the duct or plenum does not exceed 15°F (8°C).

All ducts, air handlers and filter boxes shall be sealed. ~~Joints and seams shall comply with Section 603.9 of the International Mechanical Code. All longitudinal and transverse joints, seams and connections in metallic and nonmetallic ducts shall be constructed as specified in SMACNA HVAC Duct Construction Standards—Metal and Flexible and NAIMA Fibrous Glass Duct Construction Standards. All joints, longitudinal and transverse seams and connections in ductwork shall be securely fastened and sealed with welds, gaskets, mastics (adhesives), mastic-plus-embedded-fabric systems, liquid sealants or tapes. Closure systems used to seal ductwork listed and labeled in accordance with UL 181A shall be marked "181A-P" for pressure-sensitive tape, "181 A-M" for mastic or "181 A-H" for heat-sensitive tape. Closure systems used to seal flexible air ducts and flexible air connectors shall comply with UL 181B and shall be marked "181B-FX" for pressure-sensitive tape or "181B-M" for mastic. Duct connection to flanges of air distribution system equipment shall be sealed and mechanically fastened. Mechanical fasteners for use with flexible nonmetallic air ducts shall comply with UL 181B and shall be marked "181B-C." Closure systems used to seal metal ductwork shall be installed in accordance with the manufacturer's installation instructions. Unlisted duct tape is not permitted as a sealant on any metal ducts.~~

**Exception:** Continuously welded and locking-type longitudinal joints and seams in ducts operating at static pressures less than 2 inches of water column (500 Pa) pressure classification shall not require additional closure systems.

#### **Section 505.2.1 Interior lighting controls.**

*Add the following exception to section 505.2.1:*

**505.2.1 Interior lighting controls.** Each area enclosed by walls or floor-to-ceiling partitions shall have at least one manual control for the lighting serving that area. The required controls shall be located within the area served by the controls or be a remote switch that identifies the lights served and indicates their status.

#### **Exceptions:**

1. Areas designated as security or emergency areas that must be continuously lighted.
2. Lighting in stairways or corridors that are elements of the means of egress.
3. Normally unoccupied areas, such as restrooms, janitor closets, storage closets and similar spaces controlled by local occupancy sensors.

#### **Section 505.2.2 Additional controls.**

*Amend Section 505.2.2 to read as follows:*

**505.2.2 Additional controls.** Each area that is required to have a manual control shall have additional controls that meet the requirements of Sections 505.2.2.1, 505.2.2.2 and 505.2.2.3.

#### **Section 505.2.2.3 Daylight zone control.**

*Add two exceptions to Section 505.2.2.3:*

**505.2.2.3 Daylight zone control.** Daylight zones, as defined by this code, shall be provided with individual controls that control the lights independent of general area lighting. Contiguous daylight zones adjacent to vertical fenestration are allowed to be controlled by a single controlling device provided that they do not include zones facing more than two adjacent cardinal orientations (i.e., north, east, south, and west). Daylight zones under skylights more than 15 feet (4572 mm) from the perimeter shall be controlled separately from daylight zones adjacent to vertical fenestration.

#### **Exceptions:**

1. Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

2. Where automatic dimming controls are provided for the electric lighting within the daylight zones, no separate manual control for the daylight zone shall be required.

3. In areas where daylight zones overlap, only one control shall be required to control both zones, unless the areas include more than two adjacent cardinal orientations.

#### **Section 505.5.1 Total connected interior lighting power.**

*Amend Section 505.5.1 exception 7 and add new exception:*

**505.5.1 Total connected interior lighting power.** The total connected interior lighting power (watts) shall be the sum of the watts of all interior lighting equipment as determined in accordance with Sections 505.5.1.1 through 505.5.1.4.

#### **Exceptions:**

1. The connected power associated with the following lighting equipment is not included in calculating total connected lighting power.

1.1. Professional sports arena playing field lighting.

1.2. *Sleeping unit* lighting in hotels, motels, boarding houses or similar buildings.

1.3. Emergency lighting automatically off during normal building operation.

1.4. Lighting in spaces specifically designed for use by occupants with special lighting needs including the visually impaired visual impairment and other medical and age-related issues.

1.5. Lighting in interior spaces that have been specifically designated as a registered interior historic landmark.

1.6. Casino gaming areas.

2. Lighting equipment used for the following shall be exempt provided that it is in addition to general lighting and is controlled by an independent control device:

2.1. Task lighting for medical and dental purposes.

2.2. Display lighting for exhibits in galleries, museums and monuments.

3. Lighting for theatrical purposes, including performance, stage, film production and video production.

4. Lighting for photographic processes.

5. Lighting integral to equipment or instrumentation and is installed by the manufacturer.
6. Task lighting for plant growth or maintenance.
7. Advertising signage or directional signage, including signage for business identification or promotion, location maps and directories and sports scoreboards.
8. In restaurant buildings and areas, lighting for food warming or integral to food preparation equipment.
9. Lighting equipment that is for sale.
10. Lighting demonstration equipment in lighting education facilities.
11. *Lighting approved because of safety or emergency considerations, inclusive of exit lights.*
12. Lighting integral to both open and glass enclosed refrigerator and freezer cases.
13. Lighting in retail display windows, provided the display area is enclosed by ceiling-height partitions.
14. Furniture mounted supplemental task lighting that is controlled by automatic shutoff.
15. Theme elements in theme/amusement parks and casinos.

#### **Section 505.6.2 Exterior building lighting power.**

*Amend Section 505.6.2 to read as follows:*

**505.6.2 Exterior building lighting power.** The total exterior lighting power allowance for all exterior building applications is the sum of the base site allowance plus the individual allowances for areas that are to be illuminated and are permitted in Table 505.6.2(2) for the applicable lighting zone. Tradeoffs are allowed only among exterior lighting applications listed in Table 505.6.2(2), Tradable Surfaces section. The lighting zone for the building exterior is determined from Table 505.6.2(1) unless otherwise specified by the local jurisdiction. Exterior lighting for all applications (except those included in the exceptions to Section 505.6.2) shall comply with the requirements of Section 505.6.1.

**Exceptions:** Lighting used for the following exterior applications is exempt when equipped with a control device independent of the control of the nonexempt lighting:

1. Specialized signal, directional and marker lighting associated with transportation;



2. Advertising signage or directional signage, including signage for business identification and promotion, location maps and directories and sports scoreboards;
3. Integral to equipment or instrumentation and is installed by its manufacturer;
4. Theatrical purposes, including performance, stage, film production and video production;
5. Athletic playing areas;
6. Temporary lighting;
7. Industrial production, material handling, transportation sites and associated storage areas;
8. Theme elements in theme/amusement parks and casinos; and
9. Used to highlight features of public monuments and registered historic landmark structures or buildings.

## Chapter 6 Referenced Standards

*Revise the reference standards in Chapter 6 to include the organization ACCA (Air Conditioning Contractors of America) as follows:*

**ACCA**      Air Conditioning Contractors of America  
 2800 Shirlington Road, Suite 300  
 Arlington, VA 22206

Standard reference number	Title	Referenced in code section number
Manual D-95	Residential Duct Systems	
Manual J-02	Residential Load Calculations Eight Edition	403.6
Manual S	Residential Equipment Selection	

## 2006 International Residential Code (Energy Provisions)

### Chapter 11 Energy Efficiency

*Revise chapter 11:*

Delete Chapter 11 in its entirety.