

# BUILDING CODE SUMMARY APPENDIX B: 2018 North Carolina Building Code (2015 IBC with North Carolina Amendments)



**PROJECT INFORMATION:**  
 Name of Project: Jackson County Animal Rescue Center  
 Address: Chatham, NC Zip Code: 28776  
 Owner/Authorized Agent: Jackson County Phone # (828) 611-2207  
 E-Mail: jones@jacksoncounty.com  
 Owned By:  City/County  Private  State  
 Code Enforcement Jurisdiction:  City  County Jackson  State

**LIFE SAFETY SYSTEM REQUIREMENTS:**  
 Emergency Lighting:  No  Yes  
 Exit Signs:  No  Yes  
 Fire Alarm:  No  Yes  
 Smoke Detection Systems:  No  Yes  Partial  
 Carbon Monoxide Detection:  No  Yes

**CONTACT:** Cary Perkins, AIA (864) 770-5507  
**DESIGNER:**  
 Architectural: McMillan Pazdan Smith  
 Civil: Ryan Fryer, PE  
 Electrical: Christina D. Caldwell, PE  
 Fire Alarm: RWF Engineering, Inc.  
 Plumbing: RWF Engineering, Inc.  
 Mechanical: RWF Engineering, Inc.  
 Structural: Bill Fajal, PE  
 Retaining Walls > 5' High: Wilbers Reysend  
 Other: Gary Warner, P.E.  
 License #, Telephone #, E-MAIL provided for each discipline.

**TYPE OF WORK BEING PERFORMED:**  
 2018 NC BUILDING CODE:  New Building  Addition  Renovation

**BASIC BUILDING DATA:**  
 Construction Type:  I-A  I-B  I-C  I-D  I-E  
 Sprinklers:  No  Partial  Yes  
 Standpipes:  No  Yes  
 Fire District:  No  Yes  
 Special Inspections Required:  No  Yes

| LEVEL   | EXISTING | NEW       | SUB-TOTAL |
|---------|----------|-----------|-----------|
| LEVEL 1 | 0 SF     | 13,239 SF | 13,239 SF |

**ALLOWABLE AREA:**  
 Primary Occupancy Classification: Business  
 Accessory Occupancy Classification: Storage (S-1)  
 Incidental Uses (Table 505): Laundry rooms over 100 square feet, rooms with boilers where the largest piece of equipment is over 15 and 10 horsepower.  
 Special Uses (Chapter 4 - Use Code Sections): N/A  
 Special Provisions (Chapter 5 - Use Code Sections): N/A  
 Mixed Occupancy:  No  Yes

| STORY NO. | DESCRIPTION | AREA PER STORY (SQUARE FEET) | AREA FOR FRONTAGE (LINEAL FEET) | ALLOWABLE AREA PER STORY OR UNWEIGHTED |
|-----------|-------------|------------------------------|---------------------------------|--|
| Level 1   | BUSINESS    | 13,239 SF                    | 17,251 SF                       | 40,293 SF                              |

**ALLOWABLE HEIGHT:**  
 Building Height in Feet (Table 504.3): 17  
 Building Height in Stories (Table 504.4): 1  
 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.  
 The maximum height of air traffic control towers must comply with Table 412.3.1.  
 The maximum height of open parking garages must comply with 408.5.4.

| ALLOWABLE | SHOWN ON PLANS | CODE REFERENCE |
|-----------|----------------|----------------|
| 17        | 17             |                |
| 3         | 1              |                |

**FIRE PROTECTION REQUIREMENTS:**  
 Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.  
 The maximum height of air traffic control towers must comply with Table 412.3.1.  
 The maximum height of open parking garages must comply with 408.5.4.

| SECTION            | TYPE OF WALL             | CONSTRUCTION | REMARKS                             |
|--------------------|--------------------------|--------------|-------------------------------------|
| Exterior Walls     | North, East, West, South | 1            | Reference: See Note O on Sheet A003 |
| Interior Walls     | North, East, West, South | 1            | Reference: See Note O on Sheet A003 |
| Floor Construction | Floor Slab               | 1            | Reference: See Note O on Sheet A003 |
| Roof Construction  | Roof Deck                | 1            | Reference: See Note O on Sheet A003 |
| Smoke Barrier      | Smoke Barrier            | 1            | Reference: See Note O on Sheet A003 |
| Fire Partition     | Fire Partition           | 1            | Reference: See Note O on Sheet A003 |
| Smoke Partition    | Smoke Partition          | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Glass   | Fire-Rated Glass         | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Window  | Fire-Rated Window        | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Door    | Fire-Rated Door          | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Wall    | Fire-Rated Wall          | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Ceiling | Fire-Rated Ceiling       | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Floor   | Fire-Rated Floor         | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Wall    | Fire-Rated Wall          | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Ceiling | Fire-Rated Ceiling       | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Floor   | Fire-Rated Floor         | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Wall    | Fire-Rated Wall          | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Ceiling | Fire-Rated Ceiling       | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Floor   | Fire-Rated Floor         | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Wall    | Fire-Rated Wall          | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Ceiling | Fire-Rated Ceiling       | 1            | Reference: See Note O on Sheet A003 |
| Fire-Rated Floor   | Fire-Rated Floor         | 1            | Reference: See Note O on Sheet A003 |

**PERCENTAGE OF WALL OPENING CALCULATIONS**

| SECTION            | TYPE OF WALL             | PERCENTAGE OF WALL OPENING |
|--------------------|--------------------------|----------------------------|
| Exterior Walls     | North, East, West, South | 1                          |
| Interior Walls     | North, East, West, South | 1                          |
| Floor Construction | Floor Slab               | 1                          |
| Roof Construction  | Roof Deck                | 1                          |

**CONCEALED SPACES:**  
 EXTERIOR WALL COVERINGS (SECTION 110.2.6): Wood Framing  
 INSTALLATION OF WALL COVERINGS  
 FIBER-CEMENT SIDING (SECTION 1405.16)  
 COMBUSTIBLE MATERIALS ON THE EXTERIOR SIDE OF EXTERIOR WALLS  
 TYPE I, II, III AND IV CONSTRUCTION (SECTION 1406.2.1)

**LIFE SAFETY PLAN REQUIREMENTS:**  
 Life Safety Plan Sheet # G010  
 Fire and/or smoke-rated wall locations (Chapter 7)  
 Assumed and real property line locations (if not on site plan)  
 Exit door wall opening area with respect to distance to assumed property lines (705.8) - Unlimited Unprotected Openings: 705.8.1 Exception 2  
 Occupancy use of each area as it relates to occupant load calculation (Table 1004.1.2)  
 Occupant loads for each area  
 Exit sign locations (1013)  
 Exit access travel distances (1017)  
 Common path of travel distances (Table 1008.2.1 & Table 1008.3.2(1))  
 Obstructed and unobstructed paths (1002.4) - None  
 Clear exit widths for each exit door  
 Maximum calculated occupant load capacity for each exit door based on egress width (1005.3)  
 Actual occupant load for each exit door  
 A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation  
 Location of doors with panic hardware (1010.1.10)  
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)  
 Location of doors with electromagnetic egress locks (1010.1.9.9)  
 Location of doors equipped with hold-open devices  
 Location of emergency escape windows (1030)  
 The square footage of each fire area (202)  
 The square footage of each smoke compartment for Occupancy Classification 1-2 (407.5)  
 Note any code exceptions or table notes that may have been utilized regarding the items above

**ACCESSIBLE PARKING (SECTION 1106)**

| TYPE OF PARKING AREA | TOTAL NUMBER OF SPACES REQUIRED | NUMBER OF SPACES PROVIDED | TOTAL ACCESSIBLE SPACES PROVIDED |
|----------------------|---------------------------------|---------------------------|----------------------------------|
| Parking Area         | 57                              | 57                        | 57                               |

\*FYI: In early or just prior to DD phase, Don said he got an exemption from Zoning for the minimum number of spaces that could be required.

**PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)**

| USE      | WATER CLOSETS |        |       | URINALS |                | SHOWERS |            | DRINKING FOUNTAINS |            |
|----------|---------------|--------|-------|---------|----------------|---------|------------|--------------------|------------|
|          | MALE          | FEMALE | UNSEX | MALE    | FEMALE / UNSEX | REGULAR | ACCESSIBLE | REGULAR            | ACCESSIBLE |
| BUSINESS | 1             | 1      | 1     | 1       | 1              | 1       | 1          | 1                  | 1          |

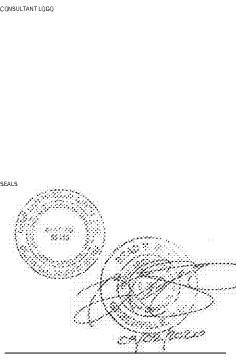
**SPECIAL APPROVALS:**  
 SPECIAL APPROVAL: (Local Jurisdiction: Department of Insurance, SCO, DPI, DHR, ICC, etc., describe below)

**ENERGY SUMMARY:**  
 The following data shall be considered minimum and any special attribute required to meet energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. Performance method, state the annual energy cost for the standard reference design vs. annual energy cost for the proposed design.  
 Climate Zone:  3  4a  5  
 Method of Compliance:  Prescriptive (Energy Code)  Performance (Energy Code)  Prescriptive (ASHRAE 90.1)  Performance (ASHRAE 90.1)  ASHRAE 90.1 (2013) COMcheck - See Sheet G011

**STRUCTURAL DESIGN:**  
 REFER TO SHEET S000

**MECHANICAL DESIGN:**  
 REFER TO COMcheck Reports - See Sheet G011

**ELECTRICAL DESIGN:**  
 REFER TO COMcheck Reports - See Sheet G011



JACKSON COUNTY  
 ANIMAL RESCUE CENTER AND GREEN ENERGY PARK  
 DILLSBORO, NORTH CAROLINA

| SHEET ISSUE | NO. | DATE      | DESCRIPTION            | BY |
|-------------|-----|-----------|------------------------|----|
|             | 1   | 9/22/2020 | ISSUE FOR BID - PERMIT |    |

PRINCIPAL IN CHARGE: CP  
 PROJECT ARCHITECT: CP  
 DRAWN BY: RH  
 SHEET TITLE: CODE SUMMARY

SHEET NO: G010  
 PROJ. NO: 019216.00

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