

2018 APPENDIX B  
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)  
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Panda Express – Concord, NC  
Address: 3030 Derita Road, Concord, NC  
Zip Code: 28027  
Owner/Authorized Agent: Joe Celento Phone # ( 912 ) 272 - 4811 E-Mail joe.celento@PandaRG.com  
Owned By: Private  
Code Enforcement Jurisdiction: City

CONTACT:

DESIGNER FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Cuhaci Peterson	Bob Riddell	9631	Bob.Riddell@c-p.com
Civil				
Electrical	Cuhaci Peterson	Jaison Moraes	041891	Jaison.Moraes@c-p.com
Fire Alarm				
Plumbing	Cuhaci Peterson	Jose Diaz	048525	jose.diaz@c-p.com
Mechanical	Cuhaci Peterson	Jose Diaz	048525	jose.diaz@c-p.com
Sprinkler-Standpipe				
Structural	Brett Peters, & Assoc.	Brett Underwood	037779	(864) 271-8869 bunderwood@btpeters.com
Retaining Walls >6' High				
Other				

(\*Other\* should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building

2018 NC EXISTING BUILDING CODE: N/A N/A  
CONSTRUCTED: (date) N/A CURRENT OCCUPANCY(S) (Ch. 3): N/A  
RENOVATED: (date) N/A PROPOSED OCCUPANCY(S) (Ch. 3): A2  
OCCUPANCY CATEGORY (Table 1004.5): Current: N/A Proposed: Select one

BASIC BUILDING DATA

Construction Type: V-B  
Sprinklers: No N/A  
Standpipes: N/A  
Primary Fire District: No Flood Hazard Area: No  
Special Inspections Required: No

Gross Building Area Table		
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)
3rd Floor		
2nd Floor		
Mezzanine		
1st Floor		2,273
Basement		
TOTAL		2,273

ALLOWABLE AREA

Primary Occupancy Classification(s): Assembly - A-2 Select one Select one Select one Select one Select one

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ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: Yes (The remainder of this section is not applicable)

Exempt Building: Select one Provide code or statutory reference:

Climate Zone: Select one

Method of Compliance: Select one

(If "Other" specify source here)

THERMAL ENVELOPE (Prescriptive method only)

Roof/ceiling Assembly (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_  
Openings (windows or doors with glazing): \_\_\_\_\_  
U-Value of assembly: \_\_\_\_\_  
Solar heat gain coefficient: \_\_\_\_\_  
U-Value of skylight: \_\_\_\_\_  
total square footage of skylights in each assembly: \_\_\_\_\_

Exterior Walls (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_  
Openings (windows or doors with glazing): \_\_\_\_\_  
U-Value of assembly: \_\_\_\_\_  
Solar heat gain coefficient: \_\_\_\_\_  
projection factor: \_\_\_\_\_  
Door R-Values: \_\_\_\_\_

Walls below grade (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

Floors over unconditioned space (each assembly)

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_

Floors slab on grade

Description of assembly: \_\_\_\_\_  
U-Value of total assembly: \_\_\_\_\_  
R-Value of insulation: \_\_\_\_\_  
Horizontal/vertical requirement: \_\_\_\_\_  
slab heated: \_\_\_\_\_

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Accessory Occupancy Classification(s):

Incidental Uses (Table 509):

Special Uses (Chapter 4 – List Code Sections):

Special Provisions: (Chapter 5 – List Code Sections):

Mixed Occupancy: No Separation: Select one Exception: \_\_\_\_\_

Select one  
Actual Area of Occupancy A + Actual Area of Occupancy B  
Allowable Area of Occupancy A Allowable Area of Occupancy B  
≤ 1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 506.2 <sup>4</sup> AREA	(C) AREA FOR FRONTAGE INCREASE <sup>5</sup>	(D) ALLOWABLE AREA PER STORY OR UNLIMITED <sup>3</sup>

<sup>1</sup> Frontage area increases from Section 506.2 are computed thus:  
a. Perimeter which fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_ (F)  
b. Total Building Perimeter = \_\_\_\_\_ (P)  
c. Ratio (F/P) = \_\_\_\_\_ (F/P)  
d. W = Minimum width of public way = \_\_\_\_\_ (W)  
<sup>2</sup> Unlimited area applicable under conditions of Section 507.  
<sup>3</sup> Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).  
<sup>4</sup> The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.  
<sup>5</sup> Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	40'-0"	22'-6"	NC State
Building Height in Stories (Table 504.4)	1	1	NC State

Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D (W/ REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses						
Bearing Walls						
Exterior						
North						
East						
West						
South						
Interior						
Nonbearing Walls and Partitions						
Exterior walls						
North						

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BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
STRUCTURAL DESIGN  
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Wind (lw) 1.0  
Snow (ls) 1.0  
Seismic (le) 1.0  
Live Loads: Roof 20 psf  
Mezzanine NA psf  
Floor NA psf  
Ground Snow Load: 10 psf  
Wind Load: Basic Wind Speed 115 mph (ASCE-7)  
Exposure Category B

SEISMIC DESIGN CATEGORY: C

Provide the following Seismic Design Parameters:  
Occupancy Category (Table 1604.5) II  
Spectral Response Acceleration Ss 2.1 %g S1 9.8 %g  
Site Classification (ASCE 7) D  
Data Sources: Presumptive  
Basic structural system Bearing Wall  
Analysis Procedure: Equivalent Lateral Force  
Architectural, Mechanical, Components anchored? Yes

LATERAL DESIGN CONTROL: Wind

SOIL BEARING CAPACITIES:

Select one 1500 psf  
Pile size, type, and capacity NA

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East					
West					
South					
Interior walls and partitions					
Floor Construction					
Including supporting beams and joists					
Floor Ceiling Assembly					
Column Supporting Floor					
Roof Construction, including supporting beams and joists					
Roof Ceiling Assembly					
Column Supporting Roof					
Shaft Enclosures - Exit					
Shaft Enclosures - Other					
Conductor Separation					
Occupancy/Fire Barrier Separation					
Party/Fire Wall Separation					
Smoke Barrier Separation					
Smoke Partition					
Tenant/Dwelling Unit/ Sleeping Unit Separation					
Incidental Use Separation					

\* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.5)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: Yes  
Exit Signs: Yes  
Fire Alarm: Yes  
Smoke Detection Systems: Yes  
Carbon Monoxide Detection: Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: LSP-101

- ☐ Fire and/or smoke rated wall locations (Chapter 7)
- ☐ Assumed and real property line locations (if not on the site plan)
- ☐ Exterior wall opening area with respect to distance to assumed property lines (705.8)
- ☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
- ☒ Occupant loads for each area
- ☒ Exit access travel distances (1037)
- ☒ Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
- ☐ Dead end lengths (1020.4)

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BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
MECHANICAL DESIGN  
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone  
winter dry bulb: 24.6  
summer dry bulb: 81.7

Interior design conditions

winter dry bulb: 70.0  
summer dry bulb: 75.0  
relative humidity: 55%

Building heating load: 999,262

Building cooling load: 314,920

Mechanical Spacing Conditioning System

Unitary  
description of unit: \_\_\_\_\_  
heating efficiency: \_\_\_\_\_  
cooling efficiency: \_\_\_\_\_  
size category of unit: \_\_\_\_\_  
Boiler  
Size category. If oversized, state reason: \_\_\_\_\_  
Chiller  
Size category. If oversized, state reason: \_\_\_\_\_

List equipment efficiencies: \_\_\_\_\_

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- ☒ Clear exit widths for each exit door
- ☒ Maximum calculated occupant load capacity each exit door can accommodate 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 I-2 (407.5)
- ☐ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
			REGULAR WITH 5' ACCESSIBLE	13' ACCESSIBLE	8' ACCESSIBLE	
TOTAL	16	30	2			2

PLUMBING FIXTURE REQUIREMENTS

(TABLE 2902.1)

USE	EXIST'G	WATERCLOSETS				URINALS		LAVATORIES		SHOWER/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNSEX		MALE	FEMALE	UNSEX			REGULAR	ACCESSIBLE
SPACE	NEW	1	1					1	1			
	REQ'D	1	1					1	1			

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

ENERGY SUMMARY

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BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS  
ELECTRICAL DESIGN  
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance: ASHRAE 90.1 - Performance

Lighting schedule (each fixture type)

lamp type required in fixture  
number of lamps in fixture  
ballast type used in the fixture  
number of ballasts in fixture  
total wattage per fixture  
total interior wattage specified vs. allowed (whole building or space by space)  
total exterior wattage specified vs. allowed

Additional Efficiency Package Options

(When using the 2018 NCECC, not required for ASHRAE 90.1)

- ☐ C406.2 More Efficient HVAC Equipment Performance
- ☐ C406.3 Reduced Lighting Power Density
- ☐ C406.4 Enhanced Digital Lighting Controls
- ☐ C406.5 On-Site Renewable Energy
- ☐ C406.6 Dedicated Outdoor Air System
- ☐ C406.7 Reduced Energy Use in Service Water Heating



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REVISIONS:

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DRAWN BY: JDV

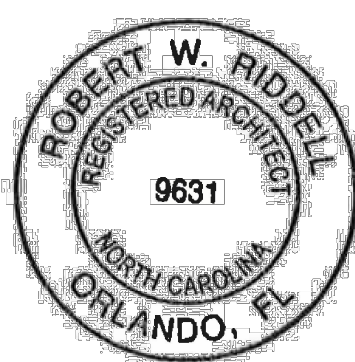
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03.04.2022



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APP-B.1

APPENDIX B

TRUE WARM & WELCOME 2200 R4