

**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: Wendy's
Address: 1210 Highway 70 Southwest Zip Code: 28602
Owner/Authorized Agent: Ken Brown Phone # (602) 454 - 5011 E-Mail: kenb@designplusinc.com
Owned By: City/County Private State State
Code Enforcement Jurisdiction: City County Catawba State

CONTACT:
DESIGNER: FIRM: Design +, Inc. NAME: Kenneth Ray Brown LICENSE # 5323 TELEPHONE # (502) 454-5011 E-MAIL: kenb@designplusinc.com
Architectural: _____
Civil: _____
Electrical: _____
Fire Alarm: _____
Plumbing: _____
Mechanical: _____
Sprinkler-Standpipe: _____
Structural: _____
Retaining Walls >5' High: _____
Other: _____
(*Other* should include focus and individual's such as: truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: New Building Addition Renovation
 1st Time Interior Completion
 Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements
 Phased Construction - Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14
Alteration: Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED: (date) unknown **CURRENT OCCUPANCY(S)** (Ch. 3): restaurant A-2
RENOVATED: (date) unknown **PROPOSED OCCUPANCY(S)** (Ch. 3): restaurant A-2

RISK CATEGORY (Table 1604.5): **Current:** I II III IV
Proposed: I II III IV

BASIC BUILDING DATA
Construction Type: I-A I-B II-A II-B III-A III-B IV V-A
(check all that apply) I-C I-D II-C II-D III-C III-D V-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
Standpipes: No Yes Class I II III Wet Dry
Fire District: No Yes **Flood Hazard Area:** No Yes
Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

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Gross Building Area Table			
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor	2397		
Basement			
TOTAL	2397		

ALLOWABLE AREA
Primary Occupancy Classification(s): Select one A-1 A-2 A-3 A-4 A-5
Business
Educational
Factory F-1 Moderate F-2 Low
Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
Institutional I-1 Condition I-2 I-3 Condition I-4 I-5
Mercantile
Residential R-1 R-2 R-3 R-4
Storage S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage
Utility and Miscellaneous

Accessory Occupancy Classification(s): n/a
Incidental Uses (Table 509): n/a
Special Uses (Chapter 4 - List Code Sections): n/a
Special Provisions (Chapter 5 - List Code Sections): n/a
Mixed Occupancy: No Yes Separation: _____ Hr. Exceptions: _____
 Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each occupancy to the entire building. The most restrictive type of construction, so determined, shall apply to the entire building.
 Separated Use (508.4) - See below for area calculations for each occupancy. The area of the occupancy shall be such that the total of the floor area of all floor areas shall not exceed the allowable floor area for each occupancy. The area shall be divided by the allowable floor area for each occupancy.
$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1.00$$

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STORY	DESCRIPTION AND USE	(A) STORY AREA PER STORY (A) TOTAL	(B) TABLE 506.2.1 AREA	(C) AREA FOR FOOTING PER STORY (C) TOTAL	(D) ALLOWABLE AREA PER STORY OR UNLIMITED
1	restaurant	2397	6000	not needed	not needed

¹ 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)
e. Percent of frontage increase $\leq 100[F/P - 0.25] \times W/30 \leq$ (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ 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.
⁵ 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"	24'-0"	
Building Height in Stories (Table 504.4)	1	1	

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

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FIRE PROTECTION REQUIREMENTS									
BUILDING ELEMENT	FIRE SEPARATION REQUIREMENT (FEET)	REPAIR	REPLACE	DETAIL # AND SHEET #	DETAIL # FOR BARRIER	SHEET # FOR BARRIER	DETAIL # FOR BARRIER	SHEET # FOR BARRIER	DETAIL # FOR BARRIER
Structural Frame, including columns, girders, trusses									
Flooring Walls	0								
Interior									
Nonbearing Walls and Partitions									
Exterior walls									
Roof									
Roof Ceiling Assembly	0								
Columns Supporting Floors	0								
Columns Supporting Roof	0								
Shaft Enclosures - Exit	0								
Shaft Enclosures - Other	0								
Roof Construction, including supporting beams and joists	0								
Roof Ceiling Assembly	0								
Columns Supporting Roof	0								
Shaft Enclosures - Exit	0								
Shaft Enclosures - Other	0								
Roof Construction, including supporting beams and joists	0								
Roof Ceiling Assembly	0								
Columns Supporting Roof	0								
Shaft Enclosures - Exit	0								
Shaft Enclosures - Other	0								
Roof Construction, including supporting beams and joists	0								
Roof Ceiling Assembly	0								
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Shaft Enclosures - Exit	0								
Shaft Enclosures - Other	0								
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Roof Ceiling Assembly	0								
Columns Supporting Roof	0								
Shaft Enclosures - Exit	0								
Shaft Enclosures - Other	0								
Roof Construction, including supporting beams and joists	0								
Roof Ceiling Assembly	0								
Columns Supporting Roof	0								
Shaft Enclosures - Exit	0								
Shaft Enclosures - Other	0								

* Indicate section number permitting reduction

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PERCENTAGE OF WALL OPENING CALCULATIONS			
FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINE	DEGREE OF OPENING PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL OPENING AREA (%)
existing	existing	existing	existing

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

LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: existing
 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 (1017)
 Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
 Dead end lengths (1020.4)
 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 (40)
 Note any code exceptions or table notes that may have been used regarding the items

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ACCESSIBLE DWELLING UNITS (SECTION 1107)							
TOTAL UNITS	ACCESSIBLE UNITS	TYPE A UNITS	TYPE B UNITS	TYPE C UNITS	TYPE D UNITS	TYPE E UNITS	TOTAL ACCESSIBLE UNITS

ACCESSIBLE PARKING (SECTION 1106)					
TYPE OF PARKING AREA	TOTAL # OF PARKING SPACES BASED ON PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
		REGULAR WITH 8' ACCESSIBLE	VAN SPACES WITH 13'2" ACCESSIBLE	8' ACCESSIBLE	

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)							
USE	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM	MINIMUM
WATER	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
SEWER	4"	4"	4"	4"	4"	4"	4"

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

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ENERGY SUMMARY existing - no changes

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: No Yes (The remainder of this section is not applicable.)
Exempt Building: No Yes (Provide code or statutory reference): _____

Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code Performance Prescriptive
ASHRAE 90.1 Performance Prescriptive
(If "Other" specify source here: _____)

THERMAL ENVELOPE (Prescriptive method only) existing - no changes

Roof/Ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in assembly: _____
U-Value of skylight: _____
total square footage of skylight in each assembly: _____
Exterior Wall (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Windows (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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**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
STRUCTURAL DESIGN**
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
Importance Factors: Snow (fs) 1.0
Seismic (fs) 1.0
Live Loads: Roof 20 psf
Mezzanine n/a psf
Floor 100 psf
Ground Snow Load: 15 psf
Wind Load: Ultimate Wind Speed 115 mph (ASCE-7)
Exposure Category C

SEISMIC DESIGN CATEGORY: A B C D existing - no changes
Provide the following Seismic Design Parameters:
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration
S_v _____ %g S_d _____ %g
Site Classification (ASCE 7) A B C D E F
Data Source: Field Test Presumptive Historical Data
Basic structural system Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind
SOIL BEARING CAPACITIES:
Field Test (provide copy of test report) existing psf
Presumptive Bearing capacity existing psf
Pile size, type, and capacity _____ psf

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SITE NUMBER:	03302
BASE MODEL:	3076
ASSET TYPE:	FRANCHISE
CLASSIFICATION:	REFRESH LITE
OWNER:	TAR HEEL CAPITAL
BASE VERSION:	2016 JUL
UPGRADE CLASSIFICATION:	N/A
PROJECT YEAR:	2020
FURNITURE PACKAGE:	UM BRIGHT
DRAWING RELEASE:	FALL 2019

Project No: 19-133

snid design
ARCHITECTS
Design +,
Bardonia-Eastern Building
1449 Bardonia Rd, Suite 200
Louisville, Kentucky 40204
(502) 454-5011 (502) 454-4311 (fax)

Wendy's
1210 HIGHWAY 70 SOUTHWEST
HICKORY, NC. 28602

REV.	DATE	DESCRIPTION

ISSUE DATE: 1/6/2020
PROJECT NUMBER: 03302
DRAWN BY: KEN BROWN
CHECKED BY: KEN BROWN

1/6/2020

SHEET NAME:
APPENDIX B

SHEET NUMBER:
APP

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