

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES)**

Name of Project: Cook Out Restaurant
Address: 4455 Main Street, Charlotte NC Zip Code: 28470

Owner or Authorized Agent: Jeremy Reaves Phone #: 336-215-7025
Address: 15 Laura Lane - Suite 300 - Thomasville, NC 27360 Email: jreaves@cookout.com

Owned By: City / County Private State
Code Enforcement Jurisdiction: City: Charlotte County: Brunswick State: NC

LEAD DESIGN PROFESSIONAL

Designer	Firm	Name	License#	Telephone#	Email
Architectural	Lindsey Architecture	Rodney Lindsey	08084	(336)617-4402	Rod@Lindseyarch.com
Civil	Alamance Consulting Eng.	Geoffrey K. Bengel	025043	(336)213-0293	Kevin.bengel@aca.nc.net
Electrical	Alamance Consulting Eng.	Geoffrey K. Bengel	025043	(336)213-0293	Kevin.bengel@aca.nc.net
Fire Alarm	Alamance Consulting Eng.	Geoffrey K. Bengel	025043	(336)213-0293	Kevin.bengel@aca.nc.net
Plumbing	---	---	---	---	---
Mechanical	---	---	---	---	---
Sprinkler-Standpipe	---	---	---	---	---
Structural	Moorefield Engineering	Justin Plasted	044954	(336)593-9623	office@mepc-consultants.com
Retaining Walls >5'High	---	---	---	---	---
Other	---	---	---	---	---

2018 NC BUILDING CODE: New Building Shell/Core 1st Time Interior Completions
 Addition Phased Construction - Shell Core

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

Constructed: -- Original Use(s) (Ch. 3): --
Renovated: -- Proposed Use(s) (Ch. 3): Restaurant (A-2)

Occupancy Category (Table 1604.5): Current: -- Proposed: II

BASIC BUILDING DATA

Construction Type: I-A II-A III-A I-V V-A
 I-B II-B III-B V-B

Sprinklers: No Partial NFPA 13 NFPA 13R NFPA 13D

Standpipes: No Class I II III Wet Dry

Primary Fire District: No Yes Flood Hazard Area: No Yes

Special Inspections Required: No Yes

Gross Building Area Table:

Floor:	Existing (sq. ft.)	New (sq. ft.)	Sub-Total
6th Floor	--	--	--
5th Floor	--	--	--
4th Floor	--	--	--
3rd Floor	--	--	--
2nd Floor	--	--	--
Mezzanine	--	--	--
1st Floor	--	1,554	1,554
Basement	--	--	--
TOTAL	--	1,554	1,554

ALLOWABLE AREA

Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5
 Business Educational Factory Hazardous Institutional I-1 I-2 I-3 I-4 I-5 I-6 I-7 I-8 I-9 I-10 I-11 I-12 I-13 I-14 I-15 I-16 I-17 I-18 I-19 I-20 I-21 I-22 I-23 I-24 I-25 I-26 I-27 I-28 I-29 I-30 I-31 I-32 I-33 I-34 I-35 I-36 I-37 I-38 I-39 I-40 I-41 I-42 I-43 I-44 I-45 I-46 I-47 I-48 I-49 I-50 I-51 I-52 I-53 I-54 I-55 I-56 I-57 I-58 I-59 I-60 I-61 I-62 I-63 I-64 I-65 I-66 I-67 I-68 I-69 I-70 I-71 I-72 I-73 I-74 I-75 I-76 I-77 I-78 I-79 I-80 I-81 I-82 I-83 I-84 I-85 I-86 I-87 I-88 I-89 I-90 I-91 I-92 I-93 I-94 I-95 I-96 I-97 I-98 I-99 I-100

Accessory Occupancy Classification(S): ---
Incidental Uses (Table 509):
This separation is not exempt as a Non-Separated Use (see exceptions).
 Furnace room where any piece of equipment is over 400,000 Btu per hour input
 Rooms with boilers where the largest piece of equipment is over 400,000 Btu per hour input
 Refrigerant machine room
 Hydrogen fuel gas rooms, not classified as Group H
 Incinerator rooms
 Paint shops, not classified as Group H, located in occupancies other than Group H
 Group E occupancies, laboratories and vocational shops not classified as Group H
 Ambulatory care facilities, laboratories not classified as Group H
 Laundry rooms over 100 square feet
 Group I-2, laundry rooms over 100 square feet
 Group I-2, laundries equal to or less than 100 square feet
 Group I-2, commercial kitchens
 Group I-2, rooms or spaces that contain fuel-fired heating equipment
 Group I-3 cells and Group I-2 patient rooms equipped with padded surfaces
 Group I-2, physical plant maintenance shops
 In ambulatory care facilities or Group I-2 occupancies, waste and linen collection rooms with containers that have an aggregate volume of 10 cubic feet or greater
 In other than ambulatory care facilities and Group I-2 occupancies, waste and linen collection rooms over 100 square feet
 Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons for flooded lead-acid, nickel cadmium or VRLA, or more than 1,000 pounds for lithium-ion and lithium metal polymer used for facility standby power, emergency power or uninterruptible power supplies
 Fuel storage rooms in public schools and boiler rooms in public schools
 Storage rooms underneath grandstands or bleacher seats containing combustible or flammable materials

Special Uses: 402 403 404 405 406 407 408 409 410
 411 412 413 414 415 416 417 418 419 420
 421 422 423 424 425 426 427 428 429 430

Special Provisions: 510.2 510.3 510.4 510.6 510.7 510.8 510.9

Mixed Occupancy: No Yes Separation: -- Hr. Exception: --
 Non-Separated Use (508.3)
 Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

Story No.	Description and use	(A) Bldg Area per story (Actual)	(B) Table 506.2.4 Area	(C) Area for Frontage Increase ^{1,5}	(D) Allowable Area Per Story or Unlimited ^{2,3}
One	A-2 Restaurant	1,554	6,000	0	6,000
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--

- Frontage area increase 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) = ---
d. W = Minimum width of public way = --- (W)
- Unlimited area applicable under conditions of Section 507.
- Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- 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.
- 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	25'-0"	TBL 504.3
Building Height in Stories (Table 504.4)	1	1	TBL 504.4

¹ 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		Detail # and Sheet #	Design# for rated assembly	Sheet # For rated penetration	Sheet # for rated joints
		Req'd	Provided (w/___ reduction)				
Structural Frame, including columns, girders, trusses	>30	NC	NC				
Bearing Walls							
Exterior							
North	--	NA	--				
East	--	NA	--				
West	--	NA	--				
South	--	NA	--				
Interior	--	NA	--				
Nonbearing Walls and Partitions							
Exterior Walls							
North	>30	0	--				
East	>30	0	--				
West	>30	0	--				
South	>30	0	--				
Interior walls and partitions	--	0	--				
Floor Construction							
Including supporting beams and joists	--	0	--				
Floor Ceiling Assemblies	--	0	--				
Roofs Supporting Floors	--	0	--				
Roof structure, including supporting beams and joists	--	0	--				
Roof Ceiling Assembly	--	0	--				
Columns Supporting Roof	--	0	--				
Shaft Enclosures - Exit	--	0	--				
Shaft Enclosures - Other	--	0	--				
Corridor Separation	--	0	--				
Occupancy/Fire Barrier Separation	--	0	--				
Party/Fire Wall Separation	--	0	--				
Smoke Barrier Separation	--	0	--				
Smoke Partition	--	0	--				
Tenant Dwelling Unit/Sleeping	--	0	--				
Unit Separation	--	0	--				
Incidental Use Separation	--	0	--				

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

Fire Separation Distance (Feet) From Property Lines	Degree of Openings Protection (Table 705.8)	Allowable Area (%)	Actual Shown on Plans (%)
Building Height in Feet	--	--	--
Building Height in Stories	--	--	--

LIFE SAFETY SYSTEMS REQUIREMENTS

Emergency Lighting: No Yes
Exit Signs: No Yes
Fire Alarm: No Yes
Smoke Detection Systems: No Yes
Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: BCS 1.2

- 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 (Table 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 with 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		# of Accessible Spaces Provided		Total # Accessible Spaces Provided
	Required	Provided	Reg. with Access Aisle	Van Spaces With 132" Access 8' Access Aisle	
--	--	--	--	--	--
--	--	--	--	--	--
--	--	--	--	--	--
TOTAL	--	--	--	--	--

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1) SEE A1.0

Use	Waterclosets			Urinals			Lavatories			Showers/Tubs		Drinking Fountains	
	Male	Female	Unisex	Male	Female	Unisex	Male	Female	Unisex	Regular	Accessible		
Occ. #	6	6	--	--	6	6	--	--	--	--	--		
Existing	--	--	--	--	--	--	--	--	--	--	--		
New	--	--	1	1	--	--	1	0	0	0	0		
Required	--	--	1	1	--	--	1	0	0	0	0		
Total	--	--	1	1	--	--	1	0	0	0	0		

SPECIAL APPROVALS

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

ENERGY SUMMARY

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: (If checked, the remainder of this section is not applicable.)

Exempt Building: Provide code or statutory reference: ---

Climate Zone: 3A 4A 5A

Method of Compliance:
Energy Code: Performance Prescriptive
ASHRAE 90.1: Performance Prescriptive
Other: Performance (specify source)

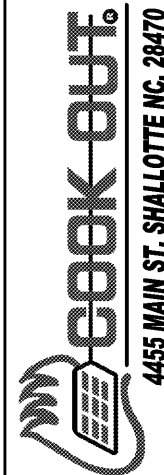
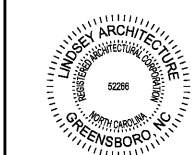
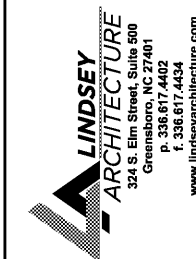
THERMAL ENVELOPE: (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)	60 Mil white fabertight roof over polyiso insulation on 1-1/2" metal deck
Description of assembly:	---
U-Value of total assembly:	35 polyiso
R-Value of insulation:	NA
Skylights in each assembly:	NA
U-Value of skylight:	NA
total square footage of skylights in each assembly:	NA
Exterior Walls (each assembly)	Brick veneer over R-7.5 rigid continuous insulation, bldg wrap, 1-1/2" plywood sheathing on 6" metal studs @ 16" O.C. with R-19 batt insulation with 1/2" plywood under frp panels
Description of assembly:	---
U-Value of total assembly:	R-19 Batt + R-7.5 C.L
R-Value of insulation:	0.65
Openings (windows or doors with glazing)	---
U-Value of assembly:	0.70
Solar heat gain coefficient projection factor:	0.2
Door R-Values:	1.43
Walls below grade (each assembly)	NA
Description of assembly:	---
U-Value of total assembly:	---
R-Value of insulation:	---
Floors over unconditioned space (each assembly)	NA
Description of assembly:	---
U-Value of total assembly:	---
R-Value of insulation:	---
Floors slab on grade	4" Concrete slab on grade over 6mm poly over 4" stone base
Description of assembly:	---
U-Value of total assembly:	---
R-Value of insulation:	---
Horizontal/vertical requirement:	---
slab heated:	---

STRUCTURAL DESIGN REFER TO STRUCTURAL DRAWINGS

MECHANICAL SUMMARY REFER TO MECHANICAL DRAWINGS

ELECTRICAL SUMMARY REFER TO ELECTRICAL DRAWINGS



DATE DESCRIPTION REVISIONS

BUILDING CODE SUMMARY

DATE: 03-20-2018
DRAWN BY: EDO/JHM
CHECK BY: RML
JOB NO.: 18-010
SHEET

BCS 1.1