

COOK OUT HENDERSONVILLE, NC

2546 Chimney Rock Rd. Hendersonville, NC 28792

2012 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2- FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: Cook Out Restaurant
Address: 2546 Chimney Rock Rd. Hendersonville, NC Zip Code: 28792

Proposed Use: Restaurant
Owner or Authorized Agent: Jeremy Reaves Phone #: 336-215-7025
Address: 15 Laura Lane - Suite 300 - Thomasville, NC 27360 Email: --

Owned By: City / County Private State
Code Enforcement Jurisdiction: City: Hendersonville County: -- State: --

LEAD DESIGN PROFESSIONAL

| Designer | Firm | Name | License# | Telephone# | Email |
|--------------------------|----------------------|-------------------|----------|--------------|---------------------------------|
| Architectural | Lindsey Architecture | Rodney Lindsey | 8084 | 336-617-4402 | Rod@lindseyArch.com |
| Electrical | Optima Engineering | Jesus Gonzalez | 032549 | 704-338-1292 | jgonzalez@optimaengineering.com |
| Plumbing | Optima Engineering | Daniel A. Revilla | 043866 | 704-338-1292 | drevilla@optimaengineering.com |
| Mechanical | Optima Engineering | Mark E. Hyatt | 034593 | 704-338-1292 | mhyatt@optimaengineering.com |
| Sprinkler-Standpipe | -- | -- | -- | -- | -- |
| Structural | MEPC Engineering | Jerry Moorefield | 20707 | 336-593-9623 | jerry@mepc-consultants.com |
| Retaining Walls >5' High | -- | -- | -- | -- | -- |
| Other | -- | -- | -- | -- | -- |

2012 EDITION OF NC CODE FOR: New Construction Addition Upfit
EXISTING: Reconstruction Alteration Repair Renovation
Constructed: -- Original Use(s) (Ch. 3): -- Building designed to: 2015 IPC, IMC, IFC, I Fuel Code 2014 NEC
Renovated: -- Current Use(s) (Ch. 3): -- 2009 Energy Code
Proposed Use(s) (Ch. 3): Restaurant

BASIC BUILDING DATA

Construction Type: I-A II-A III-A I-V V-A
(check all that apply) I-B II-B III-B 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 (Primary) Flood Hazard Area No Yes

Building Height: 25 Feet One Number of Stories

Mezzanine No Yes

Gross Building Area:

| Floor: | Existing (sq. ft.) | New (sq. ft.) | Sub-Total |
|-----------|--------------------|---------------|-----------|
| 1st Floor | -- | 3683 | -- |
| Cooler | -- | 224 | -- |
| TOTAL | -- | 3907 | -- |

ALLOWABLE AREA

Primary Occupancy: Assembly A-1 A-2 A-3 A-4 A-5
 Business Educational Factory F-1 Moderate F-2 Low F-3
 Hazardous H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HMP
 Institutional I-1 I-2 I-3 I-4
 I-3 Use Condition I-1 I-2 I-3 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 Repaired
 Utility and Miscellaneous

Secondary Occupancy: --

Incidental Uses (Table 508.2.5):
 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 15 psi and 10 horsepower
 Refrigerant machine room
 Hydrogen cutoff rooms, not classified as Group I
 Incinerator rooms
 Paint shops, not classified as Group I, located in occupancies other than Group F
 Laboratories and vocational shops, not classified as Group H, located in a Group E or I-2 occupancy
 Laundry rooms over 100 square feet
 Group I-3 cells equipped with padded surfaces
 Group I-2 waste and clean collection rooms
 Waste and clean collection rooms over 100 square feet
 Any storage battery system having a liquid electrolyte capacity of more than 50 gallons, or a lithium capacity of 1,000 power hours for facility standby power, emergency power or uninterrupted power supply
 Rooms containing fire pumps
 Group I-2 storage rooms over 100 square feet
 Group I-2 commercial kitchens
 Group I-2 laboratories equal to or less than 100 square feet
 Group I-2 rooms or spaces that contain fuel-fired heating equipment

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

Special Provisions: 509.2 509.3 509.4 509.6 509.7 509.8 509.9

Mixed Occupancy: No Yes Separation: -- Hr. Exception: --
 Incidental Use Separation (508.2.5)
 This separation is not exempt as a Non-Separated Use (see 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 of the applicable occupancies 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 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 503 ⁵ Area | (C) Area for Frontage Increase ¹ | (D) Area for Sprinkler Increase ² | (E) Allowable Area or Unlimited | (F) Maximum Building Area ⁴ |
|-----------|---------------------|----------------------------------|---------------------------------|---|--|---------------------------------|--|
| One | Restaurant | 3,907 | 6,000 | -- | -- | 6,000 | 6,000 |
| -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- |

- Frontage area increase from Section 506.2 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = --- (F)
 - Total Building Perimeter = --- (P)
 - Ratio (F/P) = --- (F/P)
 - W = Minimum width of public way = --- (W)
 - Percent of frontage increase $I = 100 [(F/P) - 0.25] \times W/30 = \text{---} (\%)$
- The sprinkler increase per Section 506.3 is as follows:
 - Multi-story building I = 200 percent
 - Single-story building I = 300 percent
- Unlimited area applicable under conditions of Section 507.
- Maximum Building Area = total number of stories in the building x E (506.4).
- The maximum area of open parking garages must comply with Table 406.3.5. The maximum area of air traffic control towers must comply with Table 412.1.2.

ALLOWABLE HEIGHT

| Type of Construction | Type | VB | Type | Code Reference |
|----------------------------|------|-------------------|------|----------------|
| Building Height in Feet | 40 | Feet + 20' = -- | 25 | -- |
| Building Height in Stories | 1 | Stories + -- = -- | 1 | -- |

FIRE PROTECTION REQUIREMENT

| Building Element | Fire Separation Distance (Feet) | Req'd | Provided | Detail # and Sheet # | Design # for rated assembly | Design # For rated penetration | Design # for rated joints |
|---|---------------------------------|-------|----------|----------------------|-----------------------------|--------------------------------|---------------------------|
| Structural Frame, including columns, girders, trusses | >30 | 0 | -- | | | | |
| Beams | | | | | | | |
| Walls | | | | | | | |
| North | >30 | 0 | -- | | | | |
| East | >30 | 0 | -- | | | | |
| West | >30 | 0 | -- | | | | |
| South | >30 | 0 | -- | | | | |
| Interior | >30 | 0 | -- | | | | |
| 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 | -- | | | | |
| Shaft Enclosures - Exit | -- | 0 | -- | | | | |
| Shaft Enclosures - Other | -- | 0 | -- | | | | |
| Corridor Separation | -- | 0 | -- | | | | |
| Occupancy Separation | -- | 0 | -- | | | | |
| Party/Fire Wall Separation | -- | 0 | -- | | | | |
| Smoke Barrier Separation | -- | 0 | -- | | | | |
| Tenant Separation | -- | 0 | -- | | | | |
| Incidental Use Separation | -- | 0 | -- | | | | |

* Indicate section number permitting reduction

LIFE SAFETY SYSTEMS REQUIREMENT

Emergency Lighting: No Yes
Exit Signs: No Yes
Fire Alarm: No Yes
Smoke Detection Systems: No Yes Partial
Panic Hardware: No Yes

EXIT REQUIREMENTS:

NUMBER AND ARRANGEMENT OF EXITS

| Floor, Room, or Space Designation | Minimum ² Number of Exits | | Travel Distance | | Arrangement of Exits ^{1,3} (Section 1014.2) | |
|-----------------------------------|--------------------------------------|----------------|--|--------------------------------|--|--------------------------------|
| | Required | Shown on plans | Allowable Travel Distance (Table 1016) | Travel Distance Shown on Plans | Required Distance Between Exit Doors | Actual Distance Shown on Plans |
| Restaurant | 2 | 3 | 200' | 65' | 45' | 81'-2" |
| -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- |
| -- | -- | -- | -- | -- | -- | -- |

- Corridor door width (Section 1018.4)
- Single exits (Section 1018.2)
- Common Path of Travel (Section 1014.3 & 1018.8)

EXIT WIDTH

| Use Group or Description | Area ¹ sq. ft. | Area ¹ per Occupant (Table 1004.1) | Calculated Occupant Load | Egress Width per Occupant (Table 1005.1) | | Required Width (Section 1005.01) (a - b) x c | | Actual Width Shown on Plans | |
|--------------------------|---------------------------|---|--------------------------|--|-------|--|-------|-----------------------------|-------|
| | | | | Stair | Level | Stair | Level | Stair | Level |
| Commercial Kitchen | 1,257 | 200 | 7 | N/A | 0.2 | N/A | 1.2" | N/A | -- |
| Dining Area | -- | -- | 72 | N/A | 0.2 | N/A | 17.6" | N/A | -- |
| Standing Area | 95 | 5 | 19 | N/A | 0.2 | N/A | 1.2" | N/A | -- |
| Total | 1,352 | -- | 98 | | | | 20.8" | | 176" |

* Including storage door. 142" excluding storage door.

- See Table 1004.1.2 to determine whether net or gross area is applicable.
- See definition "Area, Gross" and "Area, Net" (Section 1002)
- Minimum stairway width (Section 1005.1); min. corridor width (Section 1016.2); min. door width (Section 1008.1.1)
- Minimum width of exit passageway (Section 1020.2)
- See Section 1004.5 for converging exits.
- The loss of one means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1)
- Assembly occupancies (Section 1024)

LIST OF DRAWINGS

COVER SHEET & BUILDING CODE SUMMARY

ARCHITECTURAL

- A0.1 LIFE SAFETY PLAN, ABBREVIATIONS
- A1.0 EQUIPMENT PLAN
- A1.1 FLOOR PLAN
- A1.2 REFLECTED CEILING & ROOF PLANS
- A2.1 ELEVATIONS
- A2.2 ELEVATIONS
- A3.1 WALL SECTIONS
- A4.1 FINISH SCHEDULE, WALL TYPES & TOILET PLANS
- A5.1 WINDOW & DOOR ELEVATIONS & SCHEDULE

STRUCTURAL

- S1 FOUNDATION PLAN
- S2 ROOF FRAMING PLAN
- S3 SECTIONS AND SPECIFICATIONS
- S4 SECTIONS
- S5 SECTIONS
- S6 BRACED FRAME ELEVATIONS
- S7 DETAILS
- S8 SPECIFICATIONS

MECHANICAL

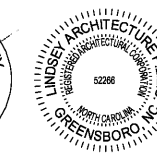
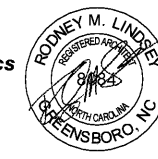
- M1-1 MECHANICAL LEGEND, NOTES & VENTILATION CALCS
- M1-2 MECHANICAL SCHEDULES
- M2-1 FLOOR PLAN-MECHANICAL
- M2-2 ROOF PLAN-MECHANICAL
- M3-1 MECHANICAL DETAIL
- M4-1 KITCHEN HOOD INFO-MECHANICAL
- M4-2 KITCHEN HOOD INFO-MECHANICAL
- M4-3 KITCHEN HOOD INFO-MECHANICAL

ELECTRICAL

- E1-0 ELECTRICAL DETAILS
- E2-0 ELECTRICAL SCHEDULES
- E3-0 ELECTRICAL SPECIFICATIONS
- E4-0 FLOOR PLAN LIGHTING
- E5-0 FIRST FLOOR PLAN POWER
- E6-0 ROOF PLAN POWER

PLUMBING

- P001 PLUMBING LEGEND, SPECIFICATIONS, AND NOTES
- P002 PLUMBING SCHEDULES
- P003 PLUMBING DETAILS
- P101 WASTE AND VENT FLOOR PLAN-PLUMBING
- P201 WATER SUPPLY FLOOR PLAN-PLUMBING
- P301 PLUMBING GAS FLOOR PLAN
- P401 PLUMBING RISER DIAGRAMS



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ACCESSIBLE PARKING (SECTION 1106)

See Civil Drawings

STRUCTURAL DESIGN

(Refer to Structural Drawings)

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

| Use | No. Occupants | Waterclosets | | Urinals | Lavatories | | Showers/ Tubs | Drinking Fountains | | |
|----------|---------------|--------------|--------|---------|------------|--------|------------------|--------------------|------------|----|
| | | Male | Female | | Male | Female | | Regular | Accessible | |
| Assembly | Required | 49 | 49 | 1 | 1 | -- | 1 | 1 | -- | -- |
| A-2 | Provided | -- | -- | 1 | 2 | 1 | 1 | 2 | -- | -- |
| -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

SPECIAL APPROVALS

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

ENERGY SUMMARY

MECHANICAL SUMMARY (Refer to M Drawings)

ELECTRICAL SUMMARY (Refer to E Drawings)