

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

Name of Project: MINDFUL THERAPY
 Address: 3266 RAY ROAD, SPRING LAKE, NC Zip Code 28390
 Proposed Use: THERAPY OFFICES
 Owner or Authorized Agent: JASON HELLONS Phone (910) 436-9191 E-Mail jasonhellonsrealty.com
 Owned By: Private City/County State
 Code Enforcement Jurisdiction: City County HARNETT State NORTH CAROLINA

CONTACT: GEORGE M. ROSE, P.E.

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #
Architectural				
Civil				<u>george@grmpe.com</u>
Electrical				
Fire Alarm				
Plumbing				
Mechanical				
Sprinkler-Standpipe				
Structural				
Precast				
Retaining Walls >5' Building	<u>GEORGE M. ROSE, P.E.</u>	<u>GEORGE M. ROSE</u>	<u>1135</u>	<u>910-471-5622</u> <u>george@grmpe.com</u>

2018 NC CODE FOR: New Construction 1st Time Interior Completion Shell/Car Phased Construction - Shell/Car Renovation

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

CONSTRUCTED: 1970 **ORIGINAL OCCUPANCY(S) (Ch. 3):** _____
RENOVATED: _____ **CURRENT OCCUPANCY(S) (Ch. 3):** STORAGE 5-2
RISK CATEGORY (table 1604.5) Current: I II III IV Proposed: I II III IV

BASIC BUILDING DATA

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

Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 130

Standpipes: No Yes Class: I II III IV Wet Dry

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

Special Inspections Required: No Yes

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENOVATED (SQ FT)	SUB-TOTAL
6th Floor				
5th Floor				
4th Floor				
3rd Floor				
2nd Floor				
Mezzanine				
1st Floor	<u>1,208</u>		<u>1,208</u>	
Basement				
TOTAL	<u>1,208</u>		<u>1,208</u>	

ALLOWABLE AREA

Primary Occupancy Classification: **SELECT ONE**

Business A-1 A-2 A-3 A-4 A-5

Factory F-1 Moderate F-2 Low

Hazardous H-1 Detonate H-2 Deflagerate H-3 Combust H-4 Health H-5 HPM

Institutional I-1 CONDITION I-2 I-3 CONDITION I-4

Mercantile R-1 R-2 R-3 R-4

Residential S-1 Moderate S-2 Low High-piled

Storage Parking Garage Open Enclosed Repair Garage

Utility and Miscellaneous _____

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 Yes Separation: _____ Hr. Exception: _____

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 1.0.
 of each use divided by the allowable floor area for each use shall not exceed 1.0.

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1.0$$

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}
1	BUSINESS	<u>1,208</u>	<u>19,000</u>		

- Frontage area increases from Section 506.3 are computed thus:
 - Perimeter which fronts a public way or open space having 20 feet minimum width = _____ (P)
 - Total Building Perimeter = _____ (P)
 - Ratio (F/P) = $\frac{P}{P}$
 - W = Minimum width of public way = _____ (W)
 - Percent of frontage increase $I_f = 100 [\frac{F}{P} - 0.25] \times W/30 =$ _____ (%)
- Unlimited area applicable under conditions of Section 507.
- Maximum Building Area = total number of stories in the building x D (minimum 3 stories) (506.2).
- The maximum area of open parking garages must comply with Table 406.5.4.
- Frontage increase is based on the unsprinklered area value in Table 506.2.

ALLOWABLE HEIGHT

ALLOWABLE (TABLE 503)	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)	<u>55'</u>	<u>11'-4"</u>
Building Height in Stories (Table 504.4)	<u>2</u>	<u>1</u>

- Provide code reference if the "Show 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 Table 406.5.4

PERCENTAGE OF WALL OPENINGS CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES)	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING		DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
		REQ'D	PROVIDED (w/ REDUCTION)				
Structural Frame, including columns, girders, trusses							
Bearing walls Exterior							
North							
East							
West							
South							
Interior							
Nonbearing walls and Partitions							
Exterior walls							
North							
East							
West							
South							
Interior walls and partitions							
Floor construction including supporting beams and joists							
Roof construction including supporting beams and joists							
Roof construction including supporting beams and joists							
Roof ceiling Assembly							
Column supporting roof							
Shafts Enclosures - Exit							
Shafts Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation	<u>2</u>	<u>G1</u>		<u>U419</u>			
Party/Fire Wall Separation	<u>2</u>	<u>G1</u>		<u>U419</u>			
Smoke Barrier Separation							
Tenant/Dwelling Unit/Sleeping Unit Sep							
Incidental Use Separation							

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENINGS CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES)	DEGREES OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Life Safety Plan Sheet #: G1 (2/G1)

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 types for each area as it relates to occupant load calculation (Table 1004.1.2)

Occupant loads for each area

Exit access travel distance (1017)

Common path of travel distances (1006.2.1 & 2006.3.2(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 and supporting construction for a fire barrier/fire partition/smoke barrier.

Location of doors with panic hardware (1010.1.10)

Location of doors with electromagnetic egress locks (1010.1.9.9)

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

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation 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 costs 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)

Existing building: No Yes (Provide Code or Statute reference)

Existing building: No Yes (Provide Code or Statute reference)

Climate Zone: 3A 4A 5A

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

THERMAL ENVELOPE (Prescriptive method only)

Roof/Ceiling Assembly (each assembly)
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Skylights in each assembly: _____
 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: _____
 U-Value of assembly: _____
 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: _____

Floor slab on grade
 Description of assembly: _____
 U-Value of total assembly: _____
 R-Value of insulation: _____
 Horizontal/Vertical requirement: _____
 R-Value of insulation: _____
 Slab Heated: _____

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL PARKING SPACES	ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
		REQUIRED	PROVIDED	EXCESS	
EXISTING AS REQ'D					
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATER CLOSETS			URINALS	LAVATORIES		SHOWERS/TUBS	DRINKING FOUNTAINS	
	MALE	FEMALE	UNISEX		MALE	FEMALE		UNISEX	REGULAR
SPACE									
EXISTING									
NEW									
REQUIRED									

SPECIAL APPROVALS

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

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:
Importance Factors: Snow (I_s) 1.0
 Snow (I_e) 1.0
 Live Loads: Roof 20 psf
 Mezzanine 20 psf
 Floor 100 psf
 Ground Snow Load: 10 psf

Wind Load: Ultimate Wind Speed 120 mph (ASCE-7)
 Exposure Category _____

SEISMIC DESIGN CATEGORY: A B C D
Risk Category (Table 1604.5) I II III IV
Spectral Response Acceleration (ASCE 7) A B C D
Site Classification (ASCE 7) S_e S₁ S₂ S₃ S₄
 Data Source: Field Test Presumptive Historical Data
Basic structural system
 Building Frame Dual w/Intermediate R/C or Special Steel Moment Frame Inverted Pendulum Simplified Equivalent Lateral Force Dynamic

Analysis Procedure: Architectural, Mechanical, Components anchored? Yes No

LATERAL DESIGN CONTROL: Earthquake Wind

SOIL BEARING CAPACITIES: Field Test (provide copy of test report) _____ psf
 Presumptive Bearing Capacity _____ psf
 Pile size, type, and capacity _____ psf

SHELL VARIABLE FORM (for all spaces - see plan)
 (THIS SECTION REQUIRED FOR ALL SHELL ALTERATIONS TO SHELL AND INTERIOR COMPLETION PROJECTS)
 Check each applicable line to match scope of work. Edit as necessary to provide clear detail of installation.

Mechanical
 No work
 Equipment set with without power
 Trunk line installed with without outlets
 Gas Line
 Install complete operational system

Other _____

Plumbing
 No work
 Install water service and sewer
 Install building drain or water distribution main with without branches
 Install complete plumbing system
 Other ROUGH-IN ARE INCOMPLETE, ADD'L IN-SLAB WORK IS REQUIRED. WATER SERVICE IS EXISTING (PRESENTLY INSTALLED).

Sprinkler
 Install complete sprinkler system

Building
 Install slab or partial complete
 Install demising walls
 Install interior partitioning or partial complete
 Install Ceilings
 White box (additional interior completion permits are required for Certificate of Occupancy and power)

Other _____

Electrical
 House panel
 Service laterals to meter centers/panels located on buildings
 Demise wall end ceilings only
 Conduit, duct, raceway in slab
 Power and lighting circuits to "J" Box
 Install light fixtures
 Install Heat/A/C Elevator Generator Parking lot lighting
 Install complete system

Other SUITE PANEL AND SERVICE ARE EXISTING (PRESENTLY INSTALLED). Please provide full information on any alternate methods and means incorporated into the design of this project. Provide specific details and incorporate into plan submittal any supporting documents or agreement

SPECIAL INSTRUCTIONS (CHAPTER 17)
 SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN BUILDING CATEGORIES AND/OR CONTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704.

To schedule a required pre-construction meeting with the City of Fayetteville, please call Doug Maples at (910) 433-1703. The main line number for the Development Services Center is (910) 433-1701.

List whom will inspect the required special inspections:

Fabricator of load bearing components	_____
Soil tests	_____
Concrete, caissons, piers, piles, pre-cast	_____
Post tension concrete	_____
Modular construction	_____
Steel and connections, welds, bolts, anchors	_____
Fire spray tests	_____
Smoke control	_____
Seismic, wind designs, Quality Assurance	_____
Retaining walls	_____
Masonry	_____
Wood	_____
Alternate Methods	_____
EIS	_____
Other (describe)	_____
Other (describe)	_____
Owner or agent	_____

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

NOTE



VICINITY MAP
NO SCALE

COUNTY OF HARNETT
 2018 APPENDIX B
 BUILDING CODE SUMMARY
 for:
**INTERIOR UPFIT PLAN
 MINDFUL THERAPY**
 3266 RAY ROAD
 SPRING LAKE, NORTH CAROLINA
 28390



BC