2012 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: Anderson Creek Shoppes Address: Bay Rd, Spring Lake, NC 28390 Proposed Use: Commercial Lease space Owner/Authorized Agent: Alellans Phone # (910) 43b - 3131 Owned By: City/County Private State Code Enforcement Jurisdiction: City X County Harnett State
DESIGNER FIRM Architectural George M. Rose George 1/315 Civil HD Site Solotion Scott Brown Electrical Jenkins Consolition For Burday Jenkins 28803 Fire Alarm Plumbing Jenkins Consolition Fing Boddy Jenkins 28803 Mechanical N/A Sprinkler-Standpipe N/A Structural George M. Rose George 1/315 Structural George M. Rose George 1/315 G10)877-5872 grose 9245 Ogn Retaining Walls >5' High Other
2012 EDITION OF NC CODE FOR: New Construction
BASIC BUILDING DATA Construction Type:
Mezzanine 5,6665F 5,6665F Basement 5,6665F 5,6665F

TOTAL

ALLOWABLE AREA

Occupancy:
Assembly \square A-1 \square A-2 \square A-3 \square A-4 \square 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 I-2 I-3 I-4
I-3 Condition
Mercantile X
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 Occupancies:
Assembly \square A-1 \square A-2 \square A-3 \square A-4 \square 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 I-2 I-3 I-4
I-3 Condition 1 2 3 4 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
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 H
☐ Incinerator rooms
Paint shops, not classified as Group H, 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 linen collection rooms
The Control of the Co
Waste and linen collection rooms over 100 square feet
Stationary storage battery systems having a liquid electrolyte capacity of more than 50 gallons, or a lithium- ion capacity of 1,000 pounds used for facility standby power, emergency power or uninterrupted power supplies
Rooms containing fire pumps
Group I-2 storage rooms over 100 square feet
Group I-2 commercial kitchens
Group I-2 laundries 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
\square 425 \square 426 \square 427 \square
Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.9
Mixed Occupancy: No Yes Separation: Hr. Exception:
☐ Incidental Use Separation (508.2.5)
2012 NC Administrative Code and Policies

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.
$\frac{Actual\ Area\ of\ Occupancy\ A}{Allowable\ Area\ of\ Occupancy\ A} + \frac{Actual\ Area\ of\ Occupancy\ B}{Allowable\ Area\ of\ Occupancy\ B} \leq 1$
+ <u>+</u> + = <u>≤ 1.00</u>

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 ³	(F) MAXIMUM BUILDING AREA ⁴
	Mercantile	5,666	12,500			12,500	12,500

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 $I_f = 100 \left[F/P 0.25 \right] \times W/30 = (\%)$
- ² The sprinkler increase per Section 506.3 is as follows:
 - a. Multi-story building I_s = 200 percent
 - b. Single story building $I_s = 300$ percent
- ³ Unlimited area applicable under conditions of Section 507.
- ⁴ Maximum Building Area = total number of stories in the building x E (506.4).
- ⁵ 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

	ALLOWABLE (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Type	1-13	Type _//-B	Table 601
Building Height in Feet	26'-6"	Feet = H + 20' =	26'-6"	50%
Building Height in Stories		Stories + 1 =	1	503

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE		RATING	DETAIL#	DESIGN#	DESIGN#FOR	DESIGN#
	SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	AND SHEET#	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0					
Bearing Walls							
Exterior							
North		NA					
East		NIA					
West		N/A					
South		MA					
Interior		///					
Nonbearing Walls and Partitions Exterior walls			0				
North							
East							
West							
South							
Interior walls and partitions							
Floor Construction Including supporting beams and joists							
Roof Construction Including supporting beams and joists							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation				.,			
Occupancy Separation		2	2	1/69	U419		
Party/Fire Wall Separation							
Smoke Barrier Separation							
Tenant Separation		2	2	1/09	U419		
Incidental Use Separation				are all t			

^{*} Indicate section number permitting reduction

	LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Panic Hardware:	□ No ✓ Yes □ No □ Yes □ No □ Yes □ No □ Yes □ No □ Yes
Life Safety Plan Sheet #:	LIFE SAFETY PLAN REQUIREMENTS
Fire and/or smoke rated wal Assumed and real property l	

	,						
		ening area with			ned property l	ines (705.8)	
-		es within 30' of					
400	ccupancy types	for each area a	as it relates to	occupant load	l calculation (Table 1004.1.	1)
V O	ecupant loads f	or each area					
Ex	kit access trave	l distances (101	16)				
U Co	ommon path of	travel distance	es (1014.3 & 1	028.8)			
De De	ead end lengths	s (1018.4)					
E CI	ear exit widths	for each exit d	loor				
M	aximum calcul	ated occupant l	load capacity e	each exit door	can accommo	odate based or	n egress width (1005.1)
		load for each e					
A	separate schen	natic plan indic	ating where fi	re rated floor/	ceiling and/or	roof structure	e is provided for
pu	rposes of occu	pancy separation	on		2		
☐ Lo	ocation of door	s with panic ha	rdware (1008.	1.10)			
☐ Lo	ocation of door	s with delayed	egress locks a	nd the amoun	t of delay (10	08.1.9.7)	
☐ Lo	ocation of door	s with electrom	agnetic egress	s locks (1008.	1.9.8).		
□ Lo	ocation of door	s equipped with	hold-open de	evices			
		gency escape v					
		ge of each fire					
		ge of each smo		ent (407.4)			
	·*·	ceptions or tab			utilized rega	rding the item	s above
	ore any code en	recptions of the	notes that h	nay nave occi	i utilized regu	rung the item	3 40010
			Market or the state of the sales with	NAME OF TAXABLE PARTY.		THE RESIDENCE OF STREET	BARROLL BUILDING THE PARKS
			ACCESSIBI	E DWELLI	NG UNITS		
			(SI	ECTION 1107	7)		
TOTAL	ACCESSIBLE	ACCESSIBLE	Түре А	Түре А	Түре В	Түре В	TOTAL
Units	Units	Units	Units	UNITS	UNITS	Units	ACCESSIBLE UNITS
-	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	PROVIDED

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING	TOTAL# OF PA	ARKING SPACES	# OF ACC	ESSIBLE SPACES PRO	OVIDED	TOTAL#
AREA	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACI	ACCESSIBLE	
			5' ACCESS AISLE	132" ACCESS AISLE	CCESS 8' ACCESS PROVIDED	
New		41	/		/	2
TOTAL		41	1		1	2

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors:Wind (I_W) /00Snow (I_S) ///Seismic (I_E) 3

Mezzanine psf

Ground Snow Load: __/D___psf

Wind Load:	Basic Wind Exposure Ca Wind Base S					Vy=_4	_
Spectral Resp Site Classifica Basic structur BBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBBB	deismic Design Pararategory (Table 1604) conse Acceleration ation (Table 1613.5 Data Source: ral system (check or earing Wall milding Frame coment Frame	Ss 29.52 Ss 29.52 A Field	7 %g B I Test //Special M //Intermed d Pendulu //Y = 3	II	I IV 20,2 %g D E tive His me Special Steel eral Force	torical Data	c
	PACITIES: ovide copy of test rep Bearing capacity and capacity ONS REQUIRED:	port)	Yes [QUIREME			
USE	WATERCLOSETS	URINALS	IAVA	TORIES	SHOWERS/	DRINKING	FOUNTAINS
USE /	MALE FEMALE	UKINALS	MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
SPACE EXISTING NEW REQUIRED Special approval: (Locality)	cal Jurisdiction, Dep	SPECIAL artment of I			DHHS, ICC,	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.

	Climate Zone: 3 4 5)	
	Method of Compliance:		
	Prescriptive (Energy Cod	le)	
	Performance (Energy Cod	le)	
	Prescriptive (ASHRAE 9	00.1)	
	Performance (ASHRAE 9		
THERN	MAL ENVELOPE		
	Roof/ceiling Assembly (each assembly)		
	Description of assembly:	Metal Roof B-38	
	U-Value of total assembly:	11-38	
	R-Value of insulation:		
	Skylights in each assembly: U-Value of skylight:		
	total square footage of skylight	s in each assembly:	
	Exterior Walls (each assembly)	Metal Wall Panels W/ext. veneer bin	ak/
	Description of assembly:	Metal Wall Panels W/ ext. Veneer and	ery a
	R-Value of insulation:	//	
	Openings (windows or doors w U-Value of assembly:		
	Solar heat gain coeffice		
	projection factor:	None.	
	Door R-Values:		
	Walls below grade (each assembly)		
	Description of assembly:		
	U-Value of total assembly:		
	R-Value of insulation:		
	-	11.	
	Floors over unconditioned space (each	i assembly)	
	Description of assembly:		
	U-Value of total assembly: R-Value of insulation:		
	A value of histiation.		
	Floors slab on grade		
	Description of assembly:		
	U-Value of total assembly:		
	R-Value of insulation:		
	Horizontal/vertical requirement slab heated:	Ľ	
	siao neated.		

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone	
Thermal Zone winter dry bulb: summer dry bulb: Interior design conditions winter dry bulb:	
Interior design conditions	
whiter dry build.	
summer dry bulb:	
relative humidity:	
Building heating load:	
Building cooling load:	
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:	
ELECTRICAL SUMMARY	
LECTRICAL SYSTEM AND EQUIPMENT	
Method of Compliance: Energy Code: Prescriptive Performance	
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive Performance Lighting schedule (each fixture type) lamp type required in fixture	
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive Performance Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture	
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive Performance Lighting schedule (each fixture type) lamp type required in fixture number of lamps in fixture ballast type used in the fixture	
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Perscriptive 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	
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive 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	
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Perscriptive 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	
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive 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 wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed	
Method of Compliance: Energy Code: Prescriptive Performance ASHRAE 90.1: Prescriptive 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 wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed Additional Prescriptive Compliance	
Method of Compliance: Energy Code:	
Method of Compliance: Energy Code:	
Method of Compliance: Energy Code:	
Method of Compliance: Energy Code:	
Method of Compliance: Energy Code:	