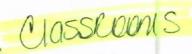
## 2012 APPENDIX B **BUILDING CODE SUMMARY** FOR ALL COMMERCIAL PROJECTS



(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

(Reproduce the following data on the building plans sheet 1 or 2)
MODULAR BUILDING PLAN NUMBER: DBI-7288

Name of Project:	
Address:	
Proposed Use: EDUCATIONAL	
Owner/Authorized Agent: Phone # ()	- E-Mail
	Private State
Code Enforcement Jurisdiction: City	County State
code Emoreement Jurisdiction.	county state
LEAD DESIGN PROFESSIONAL: JAMES. E. BRADI	LEY NC PE# 05889
	ENSE # TELEPHONE # E-MAIL
Architectural	
Civil	
Electrical	
Fire Alarm	
Plumbing	
Mechanical	
Standard 1	
Retaining Walls >5' High	
Other	. ( )
	(Ch. 3):
BASIC BUILDING DATA	
	III-A 🔲 IV 🔲 V-A
check all that apply)	III-B ■ V-B
Sprinklers: No Partial Yes NFPA 13	3 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: No Yes Class I II	III Wet Dry
Fire District: No Yes (Primary) Flood Hazar	rd Area: No Yes
Building Height: (feet) 15	
Gross Building Area:	
CLOOR EXISTING (SQ FT) NEW (SQ FT)	SUB-TOTAL
th Floor	11111
th Floor	
th Floor	
rd Floor	UARNETT COUNTY CENTRAL PERMITTING
and Floor	HARNETT COUNTY CENTRAL PERMITTING
Mezzanine	APPLICATION #
st Floor 8,750 SF	JOB NAME SOUNTING MOCE
Basement	
	DATE PLANS RECEIVED 1. CC.
TOTAL 8,750 SF	DATE PLANS RECEIVED 1.22.1
TOTAL 8,750 SF	SITE PLANS APPROVED 4.22.1
TOTAL 8,750 SF 2012 NC Administrative Code and Policies	SITE PLANS APPROVED 4.22.11
	SITE PLANS APPROVED 4.22.1
	SITE PLANS APPROVED 9.22.17

## ALLOWABLE AREA

Occupancy:
Assembly A-1 A-2 A-3 A-4 A-5 Business
Educational   Flat   Fl
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 \[ \begin{array}{c ccccc} 1 & 1 & 2 & 3 & 4 & 5 \end{array}
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 Occupancies:
Assembly 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 I-2 I-3 I-4 I-3 Condition I I I I I I I I I I I I I I I I I I I
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
☐ 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
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
그런 마프레이트 이번에 가는 것으로 되는 것이 되었다. 그런 그런 그는 그 그 그 그 그 그는 그는 그는 그는 그는 그는 그는 그를 내려왔다.
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 <sub>MAN</sub> 801
Special Provisions: 509.2 509.3 509.4 509.5 509.6 509.7 509.8 509.8
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 l	Non-Separated Use (see exceptions).
limitations for each of the applicable construction, so determined, shall a Separated Use (508.4) - See below For each story, the area of the occur	or the building shall be determined by applying the height and area le occupancies to the entire building. The most restrictive type of apply to the entire building.  We for area calculations pancy shall be such that the sum of the ratios of the actual floor area of alloor area for each use shall not exceed 1.
Actual Area of Occupancy A Allowable Area of Occupancy A	+ <u>Actual Area of Occupancy B</u> Allowable Area of Occupancy B ≤ 1
	+ = <u></u> ≤1.00

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) TABLE 503 <sup>5</sup> AREA	(C) AREA FOR FRONTAGE INCREASE <sup>1</sup>	(D) AREA FOR SPRINKLER INCREASE <sup>2</sup>	(E) ALLOWABLE AREA OR UNLIMITED <sup>3</sup>	(F) MAXIMUM BUILDING AREA <sup>4</sup>
1	CLSRM.	8,750 SF	8,750 SF	-	1000	-	8,750
					4-1-1-1		SF
							Jor

1	Frontage area	inorances	fram	Section	506 2	are	computed	thus:
1	Frontage area	increases	rrom	Section	200.4	aic	Computed	mus.

- a. Perimeter which fronts a public way or open space having 20 feet minimum width = \_\_\_\_\_(F)
- b. Total Building Perimeterc. Ratio (F/P) =
- d. W = Minimum width of public way = \_\_\_\_\_(W)
- e. Percent of frontage increase  $I_f = 100 \left[ \overline{F/P} 0.25 \right] \times W/30 =$  (%)
- <sup>2</sup> The sprinkler increase per Section 506.3 is as follows:
  - a. Multi-story building I<sub>s</sub> = 200 percent
  - b. Single story building I<sub>s</sub> = 300 percent
- <sup>3</sup> Unlimited area applicable under conditions of Section 507.
- <sup>4</sup> Maximum Building Area = total number of stories in the building x E (506.4).
- <sup>5</sup> 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 V	'-B	Type V-B	
Building Height in Feet	40	Feet = H + 20' =	15	
Building Height in Stories	2	Stories + 1 =	1	

# FIRE PROTECTION REQUIREMENTS

THE EXTERIOIR WALLS ARE NOT FIRE RATED. PER BUILDING DESIGN PARAMETERS NOTE 10 ON THE COVERSHEET OF THE PLANS, THE BULDING MUST BE INSTALLED WITH THE FIRE SEPARATION DISTANCES REQUIRED BY TABLE 602 AND SECTION 705.3.

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		N/A					301.113
Bearing Walls		N/A	ELL VALLE		J 1988	11 13 13 14	
Exterior		N/A		TALL T		CONTRACTOR	
North	199	N/A		775 7-5			
East		N/A					
West		N/A			HO. T. S.		
South		N/A			100	90	
Interior		N/A					
Nonbearing Walls and Partitions Exterior walls		N/A	221				
North		N/A					
East		N/A					
West		N/A					
South		N/A	Other Section	Sept Asi			
Interior walls and partitions		N/A	F 4 15 10 13	7 B 1 1		S 50 mm	
Floor Construction Including supporting beams and joists		N/A	12.00				
Roof Construction Including supporting beams and joists		N/A					
Shaft Enclosures - Exit	N/A	N/A	Side an his		ALC: NO.	200	
Shaft Enclosures - Other	N/A	N/A					
Corridor Separation		1	- 1	11	1	STEVENS OF ST	
Occupancy Separation	N/A	N/A	12 11 11 11	in all			
Party/Fire Wall Separation	N/A	N/A			173.3		
Smoke Barrier Separation	N/A	N/A	1000				
Tenant Separation	N/A	N/A					
Incidental Use Separation	N/A	N/A			1 2 3 3 4		

<sup>\*</sup> Indicate section number permitting reduction

	LIFE SAFETY SYSTEM REQUIREMENTS
Emergency Lighting: Exit Signs: Fire Alarm: Smoke Detection Systems: Panic Hardware:	No       ■ Yes         No       ■ Yes
V	LIFE SAFETY PLAN REQUIREMENTS
Life Safety Plan Sheet #: NOT IN	CLUDED WITHIN THE MODULAR BUILDING PLAN SET, TO BE PROVIDED BY THE PERMIT APPLICAN
☐ Fire and/or smoke rated w ☐ Assumed and real property	all locations (Chapter 7)

2012 NC Administrative Code and Policies

Existing strue Occupancy Occupant lo Exit access Common pa Dead end le Clear exit w Maximum of Actual occu A separate s purposes of Location of Location of Location of	actures within types for each adds for each a travel distance ath of travel distance ath of travel distance and the format of the each calculated occupant load for schematic plan occupancy se doors with part doors with definition of the each calculated occupancy se doors with definition of the each calculated occupancy se doors with definition of the each calculated occupancy se doors with definition of the each calculated occupancy se doors with definition of the each calculated occupancy se doors with definition of the each calculated occupancy se doors with definition of the each at the each calculated occupancy se doors with definition of the each at the each additional distance and the each at the ea	30' of the progress area as it relates (1016) stances (1014) exit door upant load capeach exit door indicating was paration unic hardware elayed egress ectromagnetic ed with hold-	here fire rated flo (1008.1.10) locks and the amore egress locks (100pen devices	oor can accommo	Table 1004.1.1	egress width (1005.1)
The square	footage of eac	ch fire area (9				
Note any co	ode exceptions	or table note	s that may have b	een utilized rega	rding the item	s above
TOTAL ACCESS UNITS UNIT REQUIR	s Uni	SIBLE TYPE	(SECTION 1  E A TYPE A  ITS UNITS  PROVIDE	TYPE B UNITS	TYPE B UNITS PROVIDED	APPLICABLE  TOTAL  ACCESSIBLE UNITS  PROVIDED
REQUI	PROVI		ACCESSIBLE P	ARKING	NOT API	PLICABLE: PROVID
OT OR PARKING	TOTAL # OF P	ARKING SPACES	(SECTION 1	CCESSIBLE SPACES		TOTAL#
REA	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SP 132" ACCESS AISLE	8' ACCES AISLE	ACCESSIBLE PROVIDED
				Latina Title		
OTAL	14 14 19 17	21/15/15/16		Private S	STATE OF THE STATE	
ESIGN LOAD	S: ance Factors:	Wind	(I <sub>w</sub> ) 1.0 (I <sub>s</sub> ) 1.0 (I <sub>E</sub> ) 1.0	DESIGN		
Live Lo	ads:	Roof Mezzani Floor	20	psf psf psf		
Ground	Snow Load:	30	psf			

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	Wind Load:		Basic Wind Exposure C	Category	C		SCE-7)		
			Wind Base	Shears (for	MWFRS)	Vx =	= _26,251_	Vy = 54,07	18
SEISM	IC DESIGN	CATEGO	RY:	[	_A _	]B <b>(</b> (	□ D		
LATER SOIL B		Category sponse Ac cation (Ta Da ural syste Bearing W Building F Moment F e shear: ocedure: al, Mecha CONTR PACITIE rovide cop Bearing c e, and capa	(Table 160 celeration ible 1613.5 ita Source: m (check o vall frame rame $V_X = 1$ inical, Como Col.:  ES: by of test reapacityacityacityacity	14.5) [   S <sub>S</sub> 53.7     S.2)   A     Fiel     Dual v     Inverted     Simplified     Imponents an     Earthquak     Earthquak	%g B d Test  w/Special 1  w/Intermeded Pendulu  Vy = 1  Echored? [	Moment Fradiate R/C or am 3,352 quivalent La Wind wind spst	28.5 %g D E ptive His nme Special Stee	F storical Data	iic
			PLUMI	BING FIXT (TAE	URE RE BLE 2902.		NTS		
	USE	WATER	CLOSETS	URINALS	LAVA	TORIES	SHOWERS/	DRINKING	G FOUNTAINS
SPACE	EXISTING	MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE
STACE	NEW	5	5	0	5	5	7	1	1
	REQUIRED	7	7	0	3	3		2	2
Special :	approval: (Lo	SUPPLE S	h April				DHHS, ICC,	etc., describe	below)
	STAFF BATI	TKOOM I	KOVIDEL		200	HIV.		294	\$7.160£1

### ENERGY SUMMARY

also be provided. Each Designer shall furnish the	n and any special attribute required to meet the energy code shall e required portions of the project information for the plan data shee cost for the standard reference design vs annual energy cost for the
Climate Zone: ☐ 3 ■ 4 ☐	5
Method of Compliance:  Prescriptive (Energy Compliance) Performance (Energy Complex (ASHRAE) Performance (ASHRAE)	(Compliance verified by Comcheck, and not prescriptive tables in code)
THERMAL ENVELOPE	
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 skyligh	WD JOISTS/TRUSSES/RAFTERS, PLYWD/OSB DECK, INSUL., CEILING 0.021 R-49
Exterior Walls (each assembly)	
Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors v U-Value of assembly Solar heat gain coeffi projection factor: Door R-Values:	: 0.45
Walls below grade (each assembly)	
Description of assembly: U-Value of total assembly: R-Value of insulation:	
Floors over unconditioned space (eac	h assembly)
Description of assembly: U-Value of total assembly: R-Value of insulation:	WD. JOIST, PLYWD. DECKING, INSUL.  0.033  R-30
Floors slab on grade	

slab heated:

Description of assembly: U-Value of total assembly: R-Value of insulation:

Horizontal/vertical requirement:

### MECHANICAL SUMMARY

## MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone winter dry bulb:	
winter dry bulb:	
	20
summer dry bulb:	93
Interior design conditions	
winter dry bulb:	72
summer dry bulb:	78
	50
CHOICE MILE THE	A DESCRIPTION OF THE PROPERTY
Building heating load: 480,1	53 btuh
Building cooling load: 245,3	62 btuh
Mechanical Spacing Conditioni	ing System
	ing System
Unitary	PACKAGED TERMINAL AC UNITS
description of unit: heating efficiency:	PACKAGED TERMINAL AC UNITS
cooling efficiency:	
size category of unit:	(10) 3.5 TON UNITS
Boiler	
	ersized, state reason.:
Chiller	orsized, state reason
	ersized, state reason.:
Size entegery: If eve	
List equipment efficiencies:	9.0 EER (SPVAC)
	ELECTRICAL CUMMARY
	ELECTRICAL SUMMARY
RICAL SYSTEM AND EQUIP	
RICAL SYSTEM AND EQUIP  Method of Compliance:	
	MENT
Method of Compliance:	MENT e Performance
Method of Compliance: Energy Code: Prescriptive ASHRAE 90.1: Prescriptive	MENT  e Performance e Performance
Method of Compliance:  Energy Code: Prescriptive ASHRAE 90.1: Prescriptive  Lighting schedule (each fixture)	MENT  e Performance e Performance type)
Method of Compliance: Energy Code: Prescriptive ASHRAE 90.1: Prescriptive Lighting schedule (each fixture lamp type required in fix	MENT  e Performance re Performance type) xture
Method of Compliance: Energy Code: Prescriptive ASHRAE 90.1: Prescriptive Lighting schedule (each fixture lamp type required in fix number of lamps in fixture)	MENT  e Performance re Performance type) kture ure
Method of Compliance: Energy Code: Prescriptive ASHRAE 90.1: Prescriptive Lighting schedule (each fixture lamp type required in fix number of lamps in fixture ballast type used in the fixed section of the section of	MENT  e Performance e Performance type) kture ure fixture
Method of Compliance:  Energy Code: Prescriptive ASHRAE 90.1: Prescriptive  Lighting schedule (each fixture lamp type required in fix number of lamps in fixture ballast type used in the fixture of ballasts in fixture lamps of ballasts in fixture lamps in fixtur	MENT  e Performance e Performance type) kture ure fixture kture
Method of Compliance:  Energy Code: Prescriptive ASHRAE 90.1: Prescriptive  Lighting schedule (each fixture of lamp type required in fixture of lamps in fixture ballast type used in the fixture of ballasts in fixture of lamps of ballasts in fixture of ballasts of ballas	MENT  e Performance e Performance type) kture ure fixture kture
Method of Compliance:  Energy Code: Prescriptive ASHRAE 90.1: Prescriptive Lighting schedule (each fixture of lamp type required in fixture of lamps in fixture of lamps in the fixture of lamps of ballasts in fixture of lamps of ballasts in fixture of lamps of ballasts of lamps of ballasts of lamps of ballasts of lamps of ballasts of lamps of lamps of lamps of ballasts of lamps o	MENT  e Performance re Performance type) kture ure fixture cture ecified vs. allowed (whole building or space by space)
Method of Compliance: Energy Code: Prescriptive ASHRAE 90.1: Prescriptive Lighting schedule (each fixture of lamp type required in fixture of lamps in fixture of lamps in the fixture of ballast type used in the fixture of ballasts in fixture of ballast	MENT  e Performance re Performance type) kture ure fixture cture ecified vs. allowed (whole building or space by space)
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Method of Compliance:  Energy Code: Prescriptive ASHRAE 90.1: Prescriptive  Lighting schedule (each fixture of lamp type required in fixture of lamps in fixture of lamps in fixture of lamps in the fixture of ballast type used in the fixture of ballasts in fixture total wattage per fixture total interior wattage special exterior wattage special exterior wattage special of the compliance o	MENT  e Performance re Performance type)  kture ure fixture tture ecified vs. allowed (whole building or space by space) ecified vs. allowed
Method of Compliance:  Energy Code: Prescriptive ASHRAE 90.1: Prescriptive  Lighting schedule (each fixture of lamps in fixture)  lamp type required in fixture of lamps in fixture of lamps in fixture of lamps in fixture of ballast type used in the fixture of ballasts in fixture total wattage per fixture total interior wattage specification of the property of the property of the property of the prescriptive of the prescript	MENT  e Performance type)  kture ure fixture cture ecified vs. allowed (whole building or space by space) ecified vs. allowed
Method of Compliance:  Energy Code:  ASHRAE 90.1:  Prescriptive  Lighting schedule (each fixture of lamp type required in fix number of lamps in fixture of lamps in fixture of ballast type used in the finumber of ballasts in fixture total wattage per fixture total interior wattage specifical exterior wattage specifical of the fixture	MENT  e Performance type)  kture ure fixture cture ecified vs. allowed (whole building or space by space) ecified vs. allowed iance ent Mechanical Equipment
Energy Code: ASHRAE 90.1: Prescriptive  Lighting schedule (each fixture lamp type required in fix number of lamps in fixture ballast type used in the fixture total wattage per fixture total interior wattage special exterior exterior wattage special exterior exterior wattage special exterior ex	MENT  e Performance type) kture ure fixture cture ecified vs. allowed (whole building or space by space) ecified vs. allowed iance ent Mechanical Equipment ghting Power Density
Method of Compliance:  Energy Code:  ASHRAE 90.1:  Prescriptive  Lighting schedule (each fixture of lamp type required in fix number of lamps in fixture of lamps in fixture of ballast type used in the fixture of ballasts in fixture total wattage per fixture of total wattage per fixture of total exterior wattage special exterior wattage special of the fixture of total of the fixture of the fixt	MENT  e Performance  type)  kture  gree fixture  cture  ecified vs. allowed (whole building or space by space)  ecified vs. allowed  iance  ent Mechanical Equipment ghting Power Density  overy Ventilation Systems