2018 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	at.				
	ct:				
	izad A gant:				
		ty/County			
•	nent Jurisdiction: ☐ Ci	•		County	
Code Emorech	ilent Jurisdiction.	.ty		ounty	
CONTACT:					
DESIGNER Architectural	FIRM			TELEPHONE #	
Civil					
Electrical				,	
Fire Alarm				()	
Plumbing Mechanical				,	
	ipe				
Structural				()	
Retaining Walls : Other	>5' High				
	include firms and individ	uals such as truss,	precast, pre-engir	neered, interior des	signers, etc.)
2010 NG COD	NE EOD N	C + i	A 11''		
2018 NC COD		ew Construction		☐ Renovation	1
		Time Interior Co ell/Core	impletion		
	_	ased Constructio	n Shell/Core		
		novation	ii – Silcii/Corc		
2018 NC EXIS	STING BUILDING CO		ntive	nair 🗆	Chapter 14
2010110 1211		on: Level I		-	Level III
		☐ Historic			Change of Use
CONS	TRUCTED:(date)				•
	VATED: (date)				
RISK CATEG	GORY (table 1604.5)	Current:	I 🔲 II		□IV
		Proposed:	I 🗌 II		□IV
BASIC BUILI	DING DATA				
Construction 7	v 1	☐ II-A	☐ III-A	☐ IV	
(check all that a		☐ II-B	☐ III-B		□ V-B
Sprinklers:	□ No □ Partial □	_ =		FPA 13R □ NF	PA 13D
Standpipes:		ss I II		•	□ v
	□ No □ Yes (Prima	•	Flood Hazar	d Area: 🗌 No	√ ∐ Yes
Special Inspect	tions Required: No	Yes			

Gross Building Area: FLOOR EXISTING (SO NEW (SOFT) RENO/ALTER SUB-TOTAL (SQ.FT) FT) 6th Floor 5th Floor 4th Floor 3rd Floor 2nd Floor Mezzanine 1st Floor Basement TOTAL **ALLOWABLE AREA Primary Occupancy Classification: SELECT ONE** Assembly \square A-1 \square A-2 \square A-3 \square A-4 \square A-5 Business Educational ____ Factory ☐ F-1 Moderate \Box F-2 Low Hazardous ☐ H-1 Detonate ☐ H-2 Deflagrate ☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM Institutional \square I-1 Condition \square 1 \square 2 \square 1-2 Condition \square 1 \square 2 \square 2 \square 3 \square 1-3 Condition \square 1 \square 4 \square 5 \square 1-4 Mercantile Residential \square R-1 \square R-2 \square R-3 \square R-4 \square S-2 Low Storage S-1 Moderate ☐ High-piled ☐ 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): ___ Separation: ____ Hr. Exception: ____ **Mixed Occupancy:** ☐ No ☐ Yes ☐ 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. Actual Area of Occupancy A Actual Area of Occupancy B Allowable Area of Occupancy A Allowable Area of Occupancy B STORY DESCRIPTION AND (B) (C) (D) (A) TABLE 506.2^4 NO. USE BLDG AREA PER AREA FOR FRONTAGE ALLOWABLE AREA PER INCREASE 1,5 STORY OR UNLIMITED^{2,3} STORY (ACTUAL) AREA

¹ Frontage area increases from Section 506.3 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 $(F/P) = \underline{\hspace{1cm}} (F/P)$
- d. W = Minimum width of public way = (W)
- e. Percent of frontage increase $I_f = 100 [F/P 0.25] x W/30 =$ (%)
- ² Unlimited area applicable under conditions of Section 507.
- ³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
- ⁴ The maximum area of open parking garages must comply with Table 406.5.4
- ⁵ 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)			
Building Height in Stories (Table 504.4)			

Provide code reference if the "Show on Plans" quantity is not based on Table 504.3 or 504.4.

² The maximum height of air traffic control towers must comply with Table 412.3.1

³ The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	PROVIDED (W/* REDUCTION)	DETAIL# AND SHEET#	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
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							
Floor Ceiling Assembly							
Column Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Column Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation							
Occupancy/Fire Barrier Separation							
Party/Fire Wall Separation							-
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

^{*} Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

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

LIFE SAFETY SYSTEM REQUIREMENTS \square No \square Yes **Emergency Lighting:** \square No \square Yes Exit Signs: Fire Alarm: \square No \square Yes Smoke Detection Systems: ☐ No ☐ Yes ☐ Partial Carbon Monoxide Detection: \square No \square Yes LIFE SAFETY PLAN REQUIREMENTS Life Safety Plan Sheet #: _ 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 distances (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 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 equipped with hold-open devices 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 Section/Table/Note Title ACCESSIBLE DWELLING UNITS (SECTION 1107) TOTAL ACCESSIBLE ACCESSIBLE TYPE A TYPE A TYPE B TYPE B TOTAL. Units UNITS UNITS Units Units UNITS Units ACCESSIBLE UNITS REQUIRED PROVIDED REQUIRED PROVIDED REQUIRED **PROVIDED** PROVIDED

ACCESSIBLE PARKING

(SECTION 1106)

ı	TOTAL # OF PARKING SPACES	# OF ACCESSIBLE SPACES PROVIDED	TOTAL #
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LOT OR PARKING	REQUIRED	PROVIDED	REGULAR WITH	VAN SPACI	ES WITH	ACCESSIBLE
AREA			5' ACCESS	132" ACCESS	8' ACCESS	PROVIDED
			AISLE	AISLE	AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

J	JSE		VATERCLOS	ETS	URINALS		LAVATORII	ES	SHOWERS	DRINKING	FOUNTAINS
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/ TUBS	REGULAR	Accessible
SPACE	EXIST'G										
	NEW										
	REQ'D										

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

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 cost for the standard reference design vs annual energy cost for the proposed design.

Existing building envelope complies with code: \square No \square Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide Code or Statutory reference):
Climate Zone:
Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive Prescriptive 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: 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:
Floors slab on grade
Description of assembly: U-Value of total assembly: R-Value of insulation: Horizontal/Vertical requirement: Slab Heated:

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

 $STRUCTURAL\, DESIGN\\ (PROVIDE\, ON\, THE\, STRUCTURAL\, SHEETS\, IF\, APPLICABLE)$

DESIGN LOADS:	
Importance Factors:	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Live Loads:	Roof psf Mezzanine psf Floor psf
Ground Snow Load:	psf
	Iltimate Wind Speed mph (ASCE-7) xposure Category
SEISMIC DESIGN CATEGOR	RY:
Site Classification (ASC Dat Basic structural system Analysis Procedure:	Table 1604.5)
LATERAL DESIGN CONTRO	L: Earthquake Wind
	y of test report) psf pacity psf

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

 $\label{eq:mechanical design} \mbox{MECHANICAL DESIGN} \\ \mbox{(PROVIDE ON THE MECHANICL SHEETS IF APPLICABLE)}$

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

winter dry bulb:	
summer dry bulb:	
Interior design conditions	
winter dry bulb:	
summer dry bulb:	
relative humidity:	
Building heating load:	
Building cooling load:	
Mechanical Spacing Conditioning System	
Mechanical Spacing Conditioning System Unitary	
Unitary description of unit:	
Unitary description of unit: heating efficiency:	
Unitary description of unit: heating efficiency: cooling efficiency:	
Unitary description of unit: heating efficiency: cooling efficiency: size category of unit:	
Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler	
Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler Size category. If oversized, state reason.:	
Unitary description of unit: heating efficiency: cooling efficiency: size category of unit: Boiler	

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

 $\label{eq:electrical} \textbf{ELECTRICAL DESIGN} \\ (\textbf{PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE})$

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT
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 interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed
Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 □ C406.2 More Efficient Mechanical Equipment □ C406.3 Reduced Lighting Power Density □ C406.4 Enhanced Digital Lighting Controls □ C406.5 On-Site Renewable Energy □ C406.6 Dedicated Outdoor Air System □ C406.7 Reduced Energy Use in Service Water Heating