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:					
			Zip Co	de	
Owner/Authorized Agent:			-	[
Owned By:	City/County		Sta		
Code Enforcement Jurisdiction:	City	_			
Code Emoreement surrouteron.					
CONTACT:					
DESIGNER FIRM	NAME	LICENSE#	TELEPHONE #	E-MAIL	
Architectural			()		
Civil			()		
Electrical			_ ()		
Dlamakin a			_ ()		
M 1 1 1			()		
Sprinkler-Standpipe					
Structural			()		
Retaining Walls >5' High			()		
Other ("Other" should include firms and			_ ()		
(Other should include firms and	d ilidividuais sucii as truss,	precast, pre-engir	leered, interior desi	gners, etc.)	
2018 NC BUILDING CODE: New Building Addition Renovation 1st Time Interior Completion Shell/Core - Contact the local inspection jurisdiction for possible additional procedures and requirements Phased Construction - Shell/Core- Contact the local inspection jurisdiction for possible additional procedures and requirements 2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14 Alteration: Level I Level II Level III Level III Historic Property Change of Use CONSTRUCTED: (date) CURRENT OCCUPANCY(S) (Ch. 3): RENOVATED: (date) PROPOSED OCCUPANCY(S) (Ch. 3): RISK CATEGORY (Table 1604.5): Current: I II III IV Proposed: I III III IV IV					
BASIC BUILDING DATA Construction Type:	B	□ III □ W	et Dry	□ V-A □ V-B PA 13D	
-		_	_	dditional	
Special Inspections Required:		the local inspection res and requireme	on jurisdiction for a ents.)	<u>aaitional</u>	

		Gross Building	Area Table	
FLOOR	EXISTING (SQ FT)	New	(SQ FT)	SUB-TOTAL
3 rd Floor	, , , , , , , , , , , , , , , , , , ,			
2 nd Floor				
Mezzanine				
1st Floor				
Basement				
TOTAL				
		ALLOWABL	E AREA	
Primary Occurs	ancy Classification(s):			
• -	•		1 . ~	
Assembly	☐ A-1 ☐ A-2 ☐ .	A-3	A-5	
Business				
Educational				
Factory		-2 Low		
Hazardous			4-3 Combust 🔲	H-4 Health H-5 HPM
Institutional	I-1 Condition I 1	$\bigsqcup 2$		
	I-2 Condition I 1	<u> </u>		
	I-3 Condition 1	\square 2 \square 3	\square 4 \square 5	
	☐ I-4			
Mercantile				
Residential	□ R-1 □ R-2 □ 1	R-3 🔲 R-4		
Storage	S-1 Moderate	S-2 Low	ligh-piled	
	Parking Garage	Open	Repair Gara	ge
Utility and N	Miscellaneous	•		-
Accessory Occu	pancy Classification(s):			
Incidental Uses				
	napter 4 – List Code Sec			
	ns: (Chapter 5 – List Co			
-				.
Mixed Occupan	cy: No Y	es Separation	: Hr.	Exception:
Non-	-Separated Use (508.3) -			r the building shall be determined by
				ons for each of the applicable
				The most restrictive type of
		construction, so de	termined, shall ap	oply to the entire building.
☐ Sepa	rated Use (508.4) - See b	elow for area calcu	lations for each st	tory, the area of the occupancy shall
				ctual floor area of each use divided by
	the a	llowable floor area	for each use shall	not exceed 1.
Actua	ıl Area of Occupancy A	+ <u>Actual Ar</u>	ea of Occupancy	\underline{B} ≤ 1
	ole Area of Occupancy A		Area of Occupancy	
				. 1.00
		+		<u>+</u> = <u>≤</u> 1.00

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)
NO.	USE	BLDG AREA PER	TABLE 506.2^{4}	AREA FOR FRONTAGE	ALLOWABLE AREA PER
		STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}

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) = _____ (F/P)
- d. W = Minimum width of public way = _____(W)
- e. Percent of frontage increase $I_f = 100[F/P 0.25] \times W/30 =$ _____(%)
- ² Unlimited area applicable under conditions of Section 507.
- ³ Maximum Building Area = total number of stories in the building x D (maximum3 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	SHOWN ON PLANS	CODE REFERENCE 1
Building Height in Feet (Table 504.3) ²			
Building Height in Stories (Table 504.4) ³			

¹ Provide code reference if the "Shown 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	SHEET # FOR RATED PENETRATION	SHEET # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses	(FEET)				AGGEMBET		JOHAIS
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							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists							
Roof Ceiling Assembly							
Columns Supporting Roof							
Shaft Enclosures - Exit							
Shaft Enclosures - Other							
Corridor Separation	_						
Occupancy/Fire Barrier Separat	ion						
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/Dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

st Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)
	(TABLE 705.0)		

LIFE SAFETY SYSTEM REQUIREMENTS Emergency Lighting: No Yes Exit Signs: No Yes Fire Alarm: No Yes Smoke Detection Systems: No Yes Partial Carbon Monoxide Detection: No 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 Use for each area as it relates to occupant load calculation (Table 1004.1.2) Occupant loads for each area Exit sign locations (1013) Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(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
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

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

UNIT CLASSIFICATION	TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B Units Provided	TOTAL ACCESSIBLE UNITS
								PROVIDED

ACCESSIBLE PARKING

(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE S	PACES PROVIDED	TOTAL # ACCESSIBLE
	REQUIRED	PROVIDED	96" SPACES	132" SPACES	PROVIDED
TOTAL					

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

U	ISE	WATER CLOSETS		URINALS		LAVATORIES		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, OSC, DPI, DHHS, 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.

Existing building envelope complies with code:	☐ No ☐ Yes (The remainder of this section is not applicable)
Exempt Building: No Yes (Provide cod	le or statutory reference):
Climate Zone: 3A 4A 5A	A
ASHRAE 90.1	Performance Prescriptive Performance Prescriptive pecify source here)
THERMAL ENVELOPE (Prescriptive method o	only)
R-Value of insulation:	
Exterior Walls (each assembly) Description of assembly: U-Value of total assembly: R-Value of insulation: Openings (windows or doors wit 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 a Description of assembly: U-Value of total assembly: U-Value of total assembly:	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
		imate Wind Speed mph (ASCE-7) posure Category
SEISMI	C DESIGN CATEGORY	7: □A □B □C □D
Provide	the following Seismic Des Risk Category (Table 16 Spectral Response Accel	04.5)
	Site Classification (ASCI	
	Basic structural system	rce:
	Analysis Procedure:	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynamic al, Components anchored? ☐ Yes ☐ No
	,	<u> </u>
LATER	AL DESIGN CONTROI	: Earthquake Wind
SOIL B		of test report) psf city psf

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone				
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				
Unitary				
description of unit:				
heating efficiency:				
cooling efficiency:				
size esta com: of units				
size category of unit:				
Boiler				
· · · · · · · · · · · · · · · · · · ·				
Boiler				
Boiler Size category. If oversized, state reason.:				

2018 APPENDIX B

BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

ELECTRICAL DESIGN

(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT				
Method of Compliance: Energy Code ☐ Perform ASHRAE 90.1 ☐ Perform	rmance Prescriptive rmance Prescriptive			
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 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 HVAC Equipm ☐ C406.3 Reduced Lighting Power Dens ☐ C406.4 Enhanced Digital Lighting Con ☐ C406.5 On-Site Renewable Energy ☐ C406.6 Dedicated Outdoor Air System	ity ntrols			
C406.7 Reduced Energy Use in Service Water Heating				