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	ode
		Phone # (l
Owned By:	2	City/County	Private	Sta	
Code Enforcemen	nt Jurisdiction:	City		=	
CONTACT:					
DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural				()	
Civil				()	
Electrical				()	
Fire Alarm				()	
Plumbing Mechanical				()	
	ipe			()	
Structural	-			()	
Retaining Walls >	>5' High			()	
Other	1 1 0			()	
("Other" should i	nclude firms and	individuals such as truss,	precast, pre-engin	eered, interior desi	gners, etc.)
2018 NC BUILD	DING CODE: [[[New Building A 1st Time Interior Comp Shell/Core - Contact the procedures and requires Phased Construction - S possible additional procedures 	letion e local inspection nents Shell/Core- Contac	ct the local inspect	
2018 NC EXIST	ING BUILDING	CODE: EXISTING:	Prescriptive	Repair	Chapter 14
		Alteration:	Level I		Level III
			Historic Prope	erty	Change of Use
CONSTRU	CTED: (date)	CURRE	-	•	
RENOVAT					
	· / <u> </u>				······································
RISK CATEGO	KI (Table 1604.	5): Current: Proposed:			
		Proposeu:			
BASIC BUILDI	NC DATA				
Construction Ty		II-A	🗌 III-A	□ IV	V-A
(check all that ap	-	□ II-B	∏ III-B		∏ V-B
Sprinklers:				PA 13R 🗌 NF	PA 13D
Standpipes:	\square No \square Yes	$Class \Box I \Box II$		et \Box Dry	
Fire District:	\square No \square Yes	Flood Hazard			
	ons Required:			n jurisdiction for a	dditional
special inspectio	ms kequireu:		es and requiremer		<u>uunnonai</u>

		Gross Building Area Table	
FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
3 rd Floor			
2 nd Floor			
Mezzanine			
1 st Floor			
Basement			
TOTAL			
		ALLOWABLE AREA	
Primary Occupancy	Classification(s):		
Assembly	A-1 🗌 A-2 🗌 A-3	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 Condition 🗌 1		
	I-2 Condition 1	2	
	I-3 Condition 1	$\square 2 \qquad \square 3 \qquad \square 4 \qquad \square 5$	
	I-4		
Mercantile			
Residential	R-1 R-2 R-3	$3 \prod R-4$	
Storage	S-1 Moderate S-1		
č <u> </u>		en 🗌 Enclosed 🔲 Repair Gara	ge
Utility and Misce			·••
•			
Incidental Uses (Tab	le 509):		
Mixed Occupancy:	No Yes		Exception:
Non-Sepa	ap	ne required type of construction for oplying the height and area limitation coupancies to the entire building. Instruction, so determined, shall a	The most restrictive type of
	be such		
	ea of Occupancy A rea of Occupancy A	+ <u>Actual Area of Occupancy</u> Allowable Area of Occupancy	
		+	_ + = <u></u> ≤1.00

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}
		STORT (ACTUAL)	ANLA	INCREASE	STORT OR UNELIMITED

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		RATING	DETAIL #	DESIGN #	SHEET # FOR	SHEET #
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR
	DISTANCE		(W/* REDUCTION)	SHEET #	RATED	PENETRATION	RATED
	(FEET)		REDUCTION)		ASSEMBLY		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							
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				ļ			
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 PROPERTY LINES	Degree of openings Protection (Table 705.8)	Allowable area (%)	ACTUAL SHOWN ON PLANS (%)

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

I ife	Safety	Plan	Sheet #:
LIIE	Salety	F Iall	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))
- \Box 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)

Ŭ	JSE	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 code or statutory reference):
Climate Zone: 3A 4A 5A
Method of Compliance: Energy Code Performance Prescriptive ASHRAE 90.1 Performance Prescriptive (If "Other" specify source here) 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:
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:	Snow (Is) Seismic (IE)
Live Loads:	RoofpsfMezzaninepsfFloorpsf
Ground Snow Load:	psf
	imate Wind Speed mph (ASCE-7)
SEISMIC DESIGN CATEGORY	$A: \square A \square B \square C \square D$
Provide the following Seismic Des Risk Category (Table 16 Spectral Response Accel	$(04.5) \square I \square II \square III \square IV$
Site Classification (ASCI	
Data Sou Basic structural system	rce: Field Test Presumptive Historical Data Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Steel Moment Frame Inverted Pendulum
Analysis Procedure:	Simplified Equivalent Lateral Force Dynamic
Architectural, Mechanic	al, Components anchored? Yes No
LATERAL DESIGN CONTROL	Earthquake Wind
SOIL BEARING CAPACITIES:	
	of test report) psf city psf ty

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 category of unit:	
Boiler	
Size category. If oversized, state reason.:	
Chiller	
Size category. If oversized, state reason.:	
List equipment efficiencies:	

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 Performance ASHRAE 90.1 Performance PrescriptivePrescriptive

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 HVAC Equipment Performance

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