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:							
Address:				Zip Co	de		
		Phone # (
Owned By:	ε	City/County		— □ Sta			
•	nt Iurisdiction:	City		_			
Code Emorcemen	it surfiction.				iic		
CONTACT:							
DESIGNER Architectural Civil Electrical Fire Alarm Plumbing Mechanical Sprinkler-Standpi	pe			TELEPHONE # ()	E-MAIL		
Retaining Walls > Other	>5' High			()			
	nclude firms and	individuals such as truss,	precast, pre-engine	eered, interior desi	gners, etc.)		
2018 NC BUILD		New Building 1st Time Interior Comp Shell/Core - Contact the procedures and requirer Phased Construction - Spossible additional procedures	letion e local inspection j nents Shell/Core- Contact	jurisdiction for pos			
2018 NC EXIST	ING BUILDING	Alteration:	Level I	Repair Level II	-		
CONSTRUC	CTED: (date)	CURRE		•			
		PROPO					
OCCUPANCY CATEGORY (Table 1604.5): Current: I							
BASIC BUILDI	NG DATA						
Construction Ty (check all that app	oly)	☐ II-A ☐ II-B	☐ III-A ☐ III-B	□ IV	□ V-A □ V-B		
Sprinklers:			=		PA 13D		
Standpipes: Fire District:	No ☐ YesNo ☐ Yes	Class I I II Flood Hazard	_ =	et Dry Yes			
					dditional		
Special Inspection	nis Kequireu: _		es and requiremen	n jurisdiction for acts.)	uurii0iiäi		

Gross Build	ing Area Table
FLOOR EXISTING (SQ FT)	EW (SQ FT) SUB-TOTAL
3 rd Floor	
2 nd Floor	
Mezzanine	
1st Floor	
Basement	
TOTAL	
ALLOWA	ABLE AREA
Primary Occupancy Classification(s): Select one Select	ct one Select one Select one Select one
Assembly \square A-1 \square A-2 \square A-3 \square A-4	
Business	
Educational	
Factory F-1 Moderate F-2 Low	
	☐ H-3 Combust ☐ H-4 Health ☐ H-5 HPM
Institutional I-1 Condition I I 2	
\square I-2 Condition \square 1 \square 2	
I-3 Condition 1 2	3
☐ I-4	
Mercantile	
Residential R-1 R-2 R-3 R-4	
Storage S-1 Moderate S-2 Low	High-piled
☐ Parking Garage ☐ Open ☐ Encl	osed 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):	
Mixed Occupancy: No Yes Separa	tion: Hr. Exception:
Non-Separated Use (508.3) - The required t	ype of construction for the building shall be determined by
	eight and area limitations for each of the applicable
occupancies to	the entire building. The most restrictive type of o determined, shall apply to the entire building.
Separated Use (508.4) - See below for area	alculations for each story, the area of the occupancy shall
	of the ratios of the actual floor area of each use divided by area for each use shall not exceed 1.
	$\frac{1}{2} Area \ of \ Occupancy \ B \le 1$
Allowable Area of Occupancy A Allowa	ple Area of Occupancy B
+	$+ = \leq 1.00$

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 506.2 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 $I_f = 100[F/P 0.25] \times W/30 =$ _____(%)

- 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. The maximum area of air traffic control towers must comply with Table 412.3.1.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 504.4)			

¹ Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

² Unlimited area applicable under conditions of Section 507.

⁵ Frontage increase is based on the unsprinklered area value in Table 506.2.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/* REDUCTION)	DETAIL # AND SHEET #	DESIGN# FOR RATED ASSEMBLY	SHEET # FOR RATED PENETRATION	SHEET # 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							
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							

^{*} 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 (%)

Ex Fir Sm	nergency Lighting: it Signs: e Alarm: noke Detection Systems: nic Hardware:	No
		LIFE SAFETY PLAN REQUIREMENTS
Life S	Safety Plan Sheet #:	
	Exterior wall opening area Occupancy Use for each at Occupant loads for each at Exit access travel distance. Common path of travel dis Dead end lengths (1020.4) Clear exit widths for each Maximum calculated occu Actual occupant load for each	y line locations (if not on the site plan) a with respect to distance to assumed property lines (705.8) rea as it relates to occupant load calculation (Table 1004.1.2) rea is (1017) stances (Tables 1006.2.1 & 1006.3.2(1)) exit door apant load capacity each exit door can accommodate based on egress width (1005.3) each exit door indicating where fire rated floor/ceiling and/or roof structure is provided for
	Location of doors with par Location of doors with ele Location of doors equippe Location of emergency esc The square footage of each	nic hardware (1010.1.10) layed egress locks and the amount of delay (1010.1.9.7) ectromagnetic egress locks (1010.1.9.9) d with hold-open devices cape windows (1030)
	Note any code exceptions	or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

TOTAL	ACCESSIBLE	ACCESSIBLE	TYPE A	TYPE A	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	RKING SPACES	# OF AC	TOTAL#		
AREA	REQUIRED	PROVIDED	REGULAR WITH	REGULAR WITH VAN SPACES WITH		ACCESSIBLE
			5' ACCESS AISLE	132" ACCESS 8' ACCESS		PROVIDED
				AISLE	AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

Ţ	SE WATERCLOSETS		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)	
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	
	sposure Category mph (ASCE-7)	
SEISMIC DESIGN CATEGORY	Y:	
Provide the following Seismic Des Risk Category (Table 16 Spectral Response Accel	504.5)	
Site Classification (ASCI Data Sou		
Basic structural system	☐ Building Frame ☐ Dual w/Intermediate R/C or Spec ☐ Moment Frame ☐ Inverted Pendulum	
Analysis Procedure: Architectural, Mechanic	☐ Simplified ☐ Equivalent Lateral Force ☐ Dynami cal, Components anchored? ☐ Yes ☐ No	ıc
LATERAL DESIGN CONTROL	· · ·	
	of test report) psf acity 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 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 Prescriptive ASHRAE 90.1 Performance 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 (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