APPENDIX B 2018 BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project:

Address:

(EXCEPT ONE AND TWO-FAMILYWELLINGS AND TOWNHOUSE) (Reproduce the following data on the building plans sheet 1 or 2)

____ Zip Code: _____

DESIGNER Architectural		FIRM	NAME		LICENSE#	TELEPHONE # E-	-MAIL
Civil						_ ()	
Electrical Fire Alarm						_ ()	
Plumbing Mechanical						_ ()	
Sprinkler Stand _l Structural	oipe					_ ()	
Retaining Walls Other	> 5 feet high					_ ()	
("Other" sh	ould include fir	ms and individu	als such as truss, pr	ecast, pre-engine	eered, interio	or designers, etc.)	
2018 NC	BUILDING	CODE:		Shell/Core Phased Constru		1st Time Interior Co Il Core	ompletions
2018 NC	EXISTING	BUILDING		Prescriptive Repair Chapter 14			☐ Historic Property ☐ Change of Use
CONSTRU		e)	ORIGINAL U	SE(S) (CHAF	P 3) <u>-</u>		
RENOVATE		,					
OCCUPAN	CY CATE	GORY: (date)	Current:	_		Proposed: -	
BASIC BU					_	1. 11/	7. //
Construction Ty (Check all that	•	□ I−A □ I−B	□ II–A □ II–B	□ III–A □ III–B			□ V–A □ V–B
Sprinklers:	□ No	□ Partial	□ NFPA 13	□ NFPA 13		NFPA 13D	
Standpipes: Primary Fire Dis	□ No strict:	Class I		II □ Wet □ Hazard Area:	•	No □ Yes	
Special Inspecti	ons Required:			10.10	T. 5: -		
Floor	Existing (s		GROSS BUILD New (sq ft)	ING AREA		total	
3rd Floor 2nd Floor	Existing (st	4 10	(34 17)		Jul	rtotui	
Mezzanine 1st Floor							
130 11001					I		
Basement TOTAL Primary Occupa Asser Busin	mbly \(\sim A \)			ABLE AREA 1 a-3	A A-4	□ A-5	
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d. W=Minimun width of public way = _

2 Unlimited area applicable under conditions of Section 507.

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

3 Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
4 The maximum area of parking garages must comply with 406.5.4. The maximum area of air traffic control towers must comply with

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3)			
Building Height in Stories (Table 503.4)			

FIRE PROTECTION REQUIREMENTS

	FIRE	R	ATING	DETAIL #	DESIGN #	DESIGN #	DESIGN #
BUILDING ELEMENT	SEPARATION DISTANCE	REQUIRED	PROVIDED *	AND	DESIGN # FOR RATED	DESIGN # FOR RATED	FOR RATED
	(feet)		(w/ * REDUCTION)	SHEET #	ASSEMBLY	PENETRATION	JOINTS
Structural frame, including columns, girders, trusses							
Bearing Walls							
Exterior							
North							
East							
West							
South							
Interior							
Nonbearing walls and partitions							
Exterior							
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 Separation							
Party/Fire Wall Separation							
Smoke Barrier Separation							
Smoke Partition							
Tenant/dwelling Unit/ Sleeping Unit Separation							
Incidental Use Separation							

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (feet) FROM PROPERTY LINE	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY REQUIREMENTS

Emergency Lighting:	□ No	☐ Yes
Exit Signs:	□ No	☐ Yes
Fire Alarm:	□ No	☐ Yes
Smoke Detection Systems:	□ No	☐ Yes
Carbon Monoxide Detection:	□ No	☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Saftey 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 assumend 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 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 accomodate based on egress width (1005.3)

☐ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of

- ☐ Actual occupant load for each exit door
- occupancy separation ☐ Location of doors with panic hardware (1010.1.10)
- □ Location of doors with delayed egress locks and amount of delay (1010.1.9.7)
- □ Location of doors with electromagnetic egress locks (1010.1.9.9) □ Location of doors with 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 exception or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS

(SECTION 1107)

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)
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	TOTAL # OF PA	ARKING SPACES	TOTAL # OF ACC	TOTAL # OF ACCESSIBLE PARKING SPACES PROVIDED					
LOT OR PARKING			DECLII AD WITH	VAN SPA	CES WITH	TOTAL # ACCESSIBLE			
AREA	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	PROVIDED			
TOTAL									

PLUMBING FIXTURE REQUIREMENTS

	W	ATERCLOSET	S	URINALS	LAVATORIES			SHOWERS/	DRINKING	FOUNTAINS
USE	Male	Female	Unisex		Male	Female	Unisex	TUBS	Regular	Accessible
SPACE										
JF AGE										

SPECIAL APPROVALS:

Special approval:	(Local	Jurisdiction,	Department	of	Insurance,	OSC,	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 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: \Box (If checked, the remainder of this section is not applicable)
Excempt Building: Provide code statuatory reference:
Climate Zone: □ 3A □ 4A □ 5A
Method of Compliance: Energy Code:
THERMAL ENVELOPE (Prescriptive method only)
Roof/ceiling Assembly (each assembly) Description of assembly: U-Value of total assembly: R-Value of insualtion: 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

STRUCTURAL DESIGN

(PROVIDE ON SHEET 1 OR 2 OF THE STRUCTURAL SHEETS)

DESIGN LOADS

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

SOIL BEARING CAPACITIES:

Pile size, type, and capacity _____

Field Test (provide copy of test report)_____

Presumtive Bearing Capacity _____ psf

Slab heated:

Horizontal/verticle requirement:

DESIGN LOADS		
Importance Factors:	Wind $(I_{\mathbf{W}})$ Snow $(I_{\mathbf{S}})$ Seismic $(I_{\mathbf{E}})$	
Live Loads:	Roof	psf
	Mezzanine	psf
	Floor	psf
Ground Snow Loads:	psf	
Wind Loads:	Basic Wind Spe	eed mph (ASCE-7)
	Exposure Cate	gory
SEISMIC DESIGN CATEGORY		
Provide the following Seismic Design parameters:		
Occupancy category (Table 1604.5)		
Spectral Response Acceleration		S_s $\%_g$ S_l $\%_g$
Site Classification (ASCE 7) Data Source:		□ A □ B □ C □ D □ E □ F □ F □ Field Test □ Presumptive □ Historical Data
Basic Structural System (Check One)		
☐ Bearing Wall		□ Dual w/ Special Moment Frame
☐ Building Frame		□ Dual w/ Intermediate R/C or Special Steel
☐ Moment Frame		☐ Inverted Pendullum
Analysis Proceedure ☐ Simplified		☐ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechanical, Components Anchored? 🗆 Yes 🗀 No		
LATERAL DESIGN CO	NTROL:	☐ Earthquake ☐ Wind