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)

Address: 129 Owner/Authorize Owned By: Select	Harbor Freight Tools W Cornelius Harnett Bleed Agent: ct one nt Jurisdiction: Select one	vd. Lillington, NC		-	e 27546	
CONTACT:	Dan Collins, dcollins@ad	aarchitects.com,	(216) 521-513			
DESIGNER Architectural Civil	FIRM ADA Architects	NAME Brian Quinn	LICENSE # 15418		E-MAIL dcollins@adaarc	hitects.com
Electrical Fire Alarm	ADA Architects	Brian Schuler	033582	(216) 521-5134		
Plumbing Mechanical	Point One Design Point One Design	Kevin Herbert Kevin Herbert	021383 021383			
Structural	ipe <u>Tamarack Grove</u> >5' High	Brian Sielaff		(<u>)</u> (<u>208) 345-894</u> 1		
Other	include firms and individua			() eered, interior design	ners, etc.)	
2018 NC BUILE	DING CODE: Select one	Interior Build (Out			
CONSTRUC RENOVAT		CURREN PROPOS	ED OCCUPANO	Select one Y(S) (Ch. 3): Me CY(S) (Ch. 3): Me		
RISK CATEGO	ORY (Table 1604.5): Curr	ent: <u>Select one</u>	ll Pr	roposed: Select one	II	
	vpe: <u>Select one</u> II-B ct one <u>Select one</u> Ye		Hazard Area: <u>Se</u>	lect one		
Special Hispectic	ons Required: Select one					
F1 000	F	Gross Building A		Com	Mom. r	
FLOOR 3 rd Floor 2 nd Floor	EXISTING (SQ FT)	NEW	(SQ FT)	SUB-	-Total	- -
Mezzanine 1st Floor	15,052			45	052	_
Basement					,052	- -
TOTAL	15,052			15,	,052	

			Me	rcantile					
					ct one Select one	Select one Select one			
Acces	sory Occ	cupancy Classification	on(s): Busines	s, Storage S-2					
Incidental Uses (Table 509):									
Specia	d Uses (Chapter 4 – List Co	de Sections):						
Specia	l Provis	sions: (Chapter 5 – I	ist Code Sections	s):					
Mixed	Occupa	ancy: Select one No	Separation: Selec		ion:				
Se	elect one			No					
		ual Area of Occupan							
	Allow	able Area of Occupar	ıcy A Allov	wable Area of O	ccupancy B				
			+		+	= < 1.00			
			'						
5	STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)			
	NO.	USE	BLDG AREA PER	TABLE 506.2^4	AREA FOR FRONTAGE				
			STORY (ACTUAL)	AREA	INCREASE ^{1,5}	STORY OR UNLIMITED ^{2,3}			
1		Mercantile	15,052	50,000					
-									
		increases from Secti							
	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 $I_f = 100[F/P - 0.25] \times W/30 =$ (%)									
		ea applicable under co							
		uilding Area = total nu				es) (506.2).			
i ne i	⁴ The maximum area of open parking garages must comply with Table 406.5.4.								

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1
Building Height in Feet (Table 504.3) ²	75'	32'-7"	
Building Height in Stories (Table 504.4) ³	1	1	

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.

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

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		0					
Bearing Walls							
Exterior		0					
North							
East							
West							
South							
Interior		0					
Nonbearing Walls and Partitions		•					
Exterior walls		0					
North							
East							
West							
South							
Interior walls and partitions		0					
Floor Construction Including supporting beams and joists		0					
Floor Ceiling Assembly							
Columns Supporting Floors							
Roof Construction, including supporting beams and joists		0					
Roof Ceiling Assembly							
Columns 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 PROPERTY LINES	Degree of openings Protection (Table 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting:Select oneYesExit Signs:Select oneYesFire Alarm:Select oneYesSmoke Detection Systems:Select oneYesCarbon Monoxide Detection:Select oneYes

LIFE SAFETY PLAN REQUIREMENTS

Life S	afety Plan Sheet #: A1.1A
	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)
X	Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
X	Occupant loads for each area
X	Exit sign locations (1013)
X	Exit access travel distances (1017)
	Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1))
	Dead end lengths (1020.4)
X	Clear exit widths for each exit door
X	$Maximum\ calculated\ occupant\ load\ capacity\ each\ exit\ door\ can\ accommodate\ based\ on\ egress\ width\ (1005.3)$
X	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
X	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)

USE WATERCLOSETS		URINALS	LAVATORIES		SHOWERS	DRINKING FOUNTAINS					
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/TUBS	REGULAR	ACCESSIBLE
SPACE	EXIST'G										
	NEW	1	1			1	1			1	1
	REQ'D	1	1			1	1			1	1

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: Select one Yes
Exempt Building: Select one Provide code or statutory reference:
Climate Zone: Select one
Method of Compliance: Select one (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:	Snow (I _S) Seismic (I _E)						
Live Loads:	Roof Mezzanine Floor	psf psf psf					
Ground Snow Load:	psf	•					
	imate Wind Spe posure Category		mph (ASCE-7)				
SEISMIC DESIGN CATEGORY	Y: Select one						
Provide the following Seismic Des Risk Category (Table 16 Spectral Response Accel	04.5) <u>S</u>		S ₁ %g				
Site Classification (ASCE 7) Data Source: Select one Basic structural system Analysis Procedure: Select one Select one Architectural, Mechanical, Components anchored? Select one							
LATERAL DESIGN CONTROL: Select one							
SOIL BEARING CAPACITIES: Select one Pile size, type, and capaci	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:
Machania Caraina Can Pitania Cantan
Mechanical Spacing Conditioning System
Unitary Unitary
Unitary description of unit:
Unitary description of unit: heating efficiency:
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.:

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: Select one **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