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: PHALANX CROOSFIT Address: 2649 HWY 87 S., CAMERON, NC Zip Code: 28326 Owner/Authorized Agent: EQUAGEN PLLC Phone #: (919) 267-3004 E-Mail: info@equagen.com Owned By: □ City/County ☑ Private □ State Code Enforcement Jurisdiction: □ City CAMERON ☑ County HARNETT □ State
CONTACT:
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 addition for possible
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) N/A CURRENT OCCUPANCY(S) (Ch. 3): N/A RENOVATED: (date) N/A PROPOSED OCCUPANCY(S) (Ch. 3): B
RISK CATEGORY (Table 1604.5): Current: I II III IV Proposed: I II III IV
BASIC BUILDING DATA Construction Type: I-A II-A III-A IV V-A I-B II-B III-B IV-B
Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D Standpipes: No Yes Yes II III Dry
Fire District: No Yes Flood Hazard Area: No Yes Special Inspections Required: No Yes Contact the local inspection jurisdiction for additional
Gross Building Area Table FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL 3rd Floor -
2nd Floor - Mezzanine 589.57
1st Floor 12096.00 Basement -
TOTAL 12096.00
ALLOWABLE AREA
Primary Occupancy Classification(s): Assembly A-1 A-2 A-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 H-1 Condition 1 2
☐ I-2 Condition ☐ 1
Mercantile Residential R-1 R-2 R-3 R-4 Storage S-1 Moderate S-2 Low High-piled
Parking Garage Open Enclosed Repair Garage Utility and Miscellaneous Accessory Occupancy Classification(s): N/A
Incidental Uses (Table 509): N/A Special Uses (Chapter 4 – List Code Sections): 411
Mixed Occupancy: No Yes Separation: Hr. Exception:
Non-Separated Use (508.3) - The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occupancies to the entire building. The most restrictive type of
construction, so determined, shall apply to the entire building. Separated Use (508.4) - See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.
Actual Area of Occupancy A + Actual Area of Occupancy B ≤ 1
Allowable Area of Occupancy A Allowable Area of Occupancy B
Allowable Area of Occupancy A Allowable Area of Occupancy B + + + - - - - - - - - 1.00

STORY	DESCRIPTION AND	(A)	(B)	(C)	(D)		PERCENTAGE OF W	ALL OPENING CALCUL	ATIONS			
NO.	USE	(A) BLDG AREA PER STORY (ACTUAL)		AREA FOR FRONTAGE INCREASE1,5	ALLOWABLE AREA PER STORY OR UNLIMITED2,3	FIRE SEPARATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)			
1 (OFFICE AND SHOP	12096.00	9000	50%	13500	30' + (N,W,E)	UNPROTECTED	UNLIMITED				
2						10' (S)	PROTECTED	UNLIMITED	N/A			
a. Perime b. Total E c. Ratio (d. W = M e. Percer 2 Unlimited a 3 Maximum E 4 The maxim	Building Perimeter F/P) = _1.0(F/P) inimum width of pub at of frontage increas rea applicable unde	ublic way or op =46 blic way = _20 I se If = 100[F/P r conditions of number of stor rking garages r	en space havir 0_ (P) -T (W) – 0.25] x W/30 Section 507. ries in the buildi nust comply wi	ng 20 feet minimum v =50 (%) ng x D (maximum3 s th Table 406.5.4.	vidth =460 (F) stories) (506.2).	LIFE SAFETY SYSTEM 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				
		ALLO	WABLE HEIGH	т		Life Safety Plan Sheet #:	A105, E101					
		ŀ	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE 1	⊠ Fire and/or smoke rated	wall locations (Chapter 7	<i>`</i>)				
Building Hei	ght in Feet (Table 504	4.3) 2	40	25	TABLE 504.3	Assumed and real property line locations (if not on the site plan)						
Building Hei	ght in Stories (Table 5	504.4) 3	2	1	TABLE 504.4	 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) 						
2 The maxim		fic control towe	rs must comply	d on Table 504.3 or 50 with Table 412.3.1. vith Table 406.5.4.)4.4.	 Occupant loads for each area Exit access travel distances (1017) Common path of travel distances (Tables 1006.2.1 & 1006.3.2(1)) Dead end lengths (1020.4) Clear evit widths for each evit door 						

	FIRE I	PROTE	CTION REQUI	REMENTS				 Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3) Actual occupant load for each exit door 	
BUILDING ELEMENT	FIRE		RATING	DETAIL #	DESIGN #	SHEET # FOR	SHEET #	A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for	
	SEPARATION	REQ'D	PROVIDED	AND	FOR	RATED	FOR	purposes of occupancy separation	
	DISTANCE		(W/*	SHEET #		PENETRATION	RATED	Location of doors with panic hardware (1010.1.10)	
	(FEET)		REDUCTION)		ASSEMBLY		JOINTS	Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)	
Structural Frame,		0HR						Location of doors with electromagnetic egress locks (1010.1.9.9)	
including columns, girders, trusses		UHR						Location of doors equipped with hold-open devices	
Bearing Walls								Location of emergency escape windows (1030)	
Exterior								The square footage of each fire area (202)	
North	30+	0HR						The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)	
East	30+	0HR						Note any code exceptions or table notes that may have been utilized regarding the items above	
West	30+	0HR							
South	30+	0HR							
Interior		0HR							
Nonbearing Walls and		0HR							
Partitions									
Exterior walls									
North	30+	0HR							
East	30+	0HR						2018 APPENDIX B	
West	30+	0HR						BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS	
South	30+	0HR						MECHANICAL DESIGN	
Interior walls and partitions								(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)	
Floor Construction									
Including supporting beams	5							MECHANICAL SUMMARY	
and joists								MECHANICAL SYSTEMS SERVICE SYSTEMS AND EQUIDMENT	
Floor Ceiling Assembly								MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT	
Columns Supporting Floors								Thermal Zone	
Roof Construction, including supporting beams and joists								winter dry bulb: <u>47 F</u>	
Roof Ceiling Assembly								summer dry bulb: <u>80 F</u>	
Columns Supporting Roof								Interior design conditions	
Shaft Enclosures - Exit								-	
Shaft Enclosures - Other								winter dry bulb: 55 F	BUILDING C
								summer dry bulb: <u>54 F</u> relative humidity: <u>58 %</u>	BUILDING
Corridor Separation									
Occupancy/Fire Barrier Sepa	ration							Building heating load: 308 MBH	DESIGN LOADS:
Party/Fire Wall Separation									DEGICIT ECADO.
Smoke Barrier Separation								Building cooling load:	Importance
Smoke Partition									•
Tenant/Dwelling Unit/								Mechanical Spacing Conditioning System	
Sleeping Unit Separation								Unitary	Live Loads:
Incidental Use Separation	rmitting raduet	ion						description of unit:	
dicate section number pe	mitting reduct	ION						heating efficiency:	
								cooling efficiency:	Ground Sno
		0000-						size category of unit: <u>ONE 4,3 AND 2 TON MINI-SPLIT UNIT</u> Boiler	Ground She
	AC		BLE DWELLIN					Size category. If oversized, state reason.:	Wind Load:
		(5	SECTION 1107)				Chiller	
TOTAL ACCESSIBLE A	CCESSIBLE	TYPE A	A TYPE A	TYPE B	TYPE I	В тот.	AL	Size category. If oversized, state reason.:	
UNITS UNITS	UNITS	UNITS	UNITS	UNITS	UNITS	ACCESSIB			
	PROVIDED	REQUIRED) PROVIDED	REQUIRED	PROVIDE	D PROVI	DED	List equipment efficiencies:	SEISMIC DESIGN C
N/A									Provide the following
									Risk Catego
									Spectral Re
			SSIBLE PARK						Site Classific
			SSIBLE PARK					2018 APPENDIX B	
		(5		/					Basic struct
OT OR PARKING TOTAL #	OF PARKING SP			SSIBLE SPACE			DTAL #	BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS	
	ED PROVIE	DED R	EGULAR WITH	VAN S	PACES WITH		ESSIBLE IVIDED		
		5'	ACCESS AISLE	132" ACCESS			NIDED	(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)	Analysis Dr
	4	5'	ACCESS AISLE	132" ACCESS AISLE -	8' ACC AISI 1		4	(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE) ELECTRICAL SUMMARY	Analysis Pr Architectura

LOT OR PARKING AREA	TOTAL # OF PA REQUIRED	RKING SPACES PROVIDED	# OF ACC REGULAR WITH	ROVIDED ES WITH	TOTAL # ACCESSIBLE	
			5' ACCESS AISLE	132" ACCESS	8' ACCESS	PROVIDED
				AISLE	AISLE	
2420 SF	4	4	3	-	1	4
TOTAL						

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE		WATERCLOSETS			URINALS	LAVATORIES			SHOWERS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX	/ TUBS	REGULAR	ACCESSIBL
SPACE	EXIST'G	-	-	-	-	-	-	-	-	-	-
	NEW	3	3	-	-	2	2	-	2	-	1
	REQ'D	-	-	1	-	-	-	1	-		1

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, etc., describe below)

- Clear exit widths for each exit door Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

ELECTRICAL SYSTEM AND EQUIPMENT

	Method of Compliance: Energy Code Perform ASHRAE 90.1 Perform	—	LATERAL I
OUNTAINS ACCESSIBLE - 1 1	Lighting schedule (each fixture type) lamp type required in fixture: number of lamps in fixture: total wattage per fixture: total interior wattage specified vs. allowed (whole building or space by space) total exterior wattage specified vs. allowed	ONE 4,3 AND 2 TON MINI-SPLIT UNIT STRIP LED LIGHT SINGLE LAMP IN ONE FIXTURE 40 W PER FIXTURE 2780W SPECIFIED VS 3175W ALLOWED (BUILDING AREA METHOD) N/A	SOIL BEAF Fiel Pre Pile
	Additional Efficiency Package Ontions		

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

SPECIAL APPROVALS



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

Importance Factors:	Snow (IS) <u>1.00</u> Seismic (IE) <u>1.00</u>
Live Loads:	Roof <u>20</u> psf Mezzanine psf Floor <u>100</u> psf (MAIN FLOOR)
Ground Snow Load:	<u> 10 </u> psf
	imate Wind Speed120 mph (ASCE-7) posure CategoryC
e the following Seismic D Risk Category (Table 1 Spectral Response A d	604.̃5) 🔲 I 🛛 🛛 II 🗌 IV
Site Classification (ASC Data Sc	,
Basic structural syste	m Bearing Wall Dual w/Special Moment Frame Building Frame Dual w/Intermediate R/C or Special Ste Moment Frame Inverted Pendulum
Analysis Procedure:	☐ Simplified ⊠ Equivalent Lateral Force ☐ Dynamic
Architectural, Mechar	nical, Components anchored? 🗌 Yes 🖾 No

Wind 🖂 L DESIGN CONTROL: Earthquake 🗌 ARING CAPACITIES: Field Test (provide copy of test report) _ ps 1500 Presumptive Bearing capacity psf Pile size, type, and capacity _