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: Carolina Diesel	Truck		
Address: Progress Drive, Fuquay	Varina, NC		Suite #:
Owner or Authorized Agent: Chip	LaBonte		Phone: 802.651.1338
Email: clabonte@pcconstruction.e	com		Fax:
Owned By:	□ Privately	City/County	State
Code Enforcement Jurisdiction:	☐ City		City/County
Name of Jurisdiction: Harnett C	ounty		

PROJECT SUMMARY:

Building Description: 10,084 SF type H-B construction building. Pre-engineered metal building with EIFS, metal wall and roof panels. Building includes Business and S-1 Storage occupancies.

Scope of Work: New construction of 10,084 SF pre-engineered metal building.

Code Compliance Summary: There will be no repair work on commercial trucks or buses. Maximum fire area allowed is 12,000 SF. Actual fire area is 10,084 SF. Alternative Means of Compliance Request:

Lead Desig	n Professional/Project Coordinate	or:		
DESIGNER	FIRM	NAME	LICENSE	TELEPHONE
Architectural	: Tony Johnson Architect	Tony Johnson	4296	919-550-7717
Civil:	NA			
Electrical:	Kilian Engineering	Charles Leister	039786	252-438-8778
Fire Alarm:	NA			

Plumbing: Kilian Engineering Charles Leister 039786 252-438-8778 Mechanical: Kilian Engineering 039786 252-438-8778 Charles Leister Sprinkler-Standpipe: NA Structural: Tyndall Engineering and Design Prentice Tyndall 919-773-1200 NA Precast: Trusses:

Retaining Walls >5' High: NA

Building Code: 2015 NC Existing Building Code 2012 NC Rehab

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New Building: New Building Shell Building First Time Interior Completion Addition Alteration to Shell Existing Building: Renovation Interior Completion Tenant Alteration Reconstruction Repair Alteration to Shell Change of Use Tenant Space Change of Occupancy Note: Zoning Review May Be Required for Change of Use or Occupancy

Original Occupancy: NA Proposed Occupancy: Business, S-1 Storage

OCCUPANCY INFORMATION

				7/			
mary Occupancies:	Assembly:	A-1	A-2	A-3	☐ A -4	A-5	
■ Business	Educati	ional	Factory-	-Industrial:	☐ F-1	F-2	
High-Hazard:	H-1	H-2	H-3	H-4	☐ H-5		
Institutional:	☐ I-1	I-2	I-3	I-4			
I-3 USE CO	NDITION:	\square 1	\square 2	☐ 3	4	<u></u>	
Mercantile 1	Residential:	R-1	R-2	R-3	☐ R-4		
Storage:	⊠ S-1	S-2	High-	piled			
S-1 SPECIA	L CONDITION	N:	Repair Ga	rage (406.6)			
S-2 SPECIA	L CONDITION	N Parking	Garage:	Open (4	06.3)	Enclosed (40	06.
Utility and Mis	cellaneous						

Accessory Occupancies:

Accessory Uses (Indicate Percentages): NA

Incidental Uses: NA

Special Occupancies:	☐ 402 ☐ 409 ☐ 416 ☐ 423	403 410 417 424	☐ 404 ☐ 411 ☐ 418 ☐ 425	405 412 419 426	406 413 420 427	☐ 407 ☐ 414 ☐ 421	☐ 408 ☐ 415 ☐ 422
			_				

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Special Provisions:				
Miyad Occupancy:	□ No	Ves	Separation: ()	

Non-Separated Mixed Occupancy (508.3.2)

Exception: _

Separated Mixed Occupancy (508.3.3)

 $\frac{Actual\ Area\ of\ Occupancy\ A}{Allowable\ Area\ of\ Occupancy\ A} + \frac{Actual\ Area\ of\ Occupancy\ B}{Allowable\ Area\ of\ Occupancy\ B} \leq 1$ Allowable Area of Occupancy A

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ALLOWABLE AREA AND HEIGHT CALCULATIONS THIS SECTION FOR NEW, ADDITIONS, CHANGE OF USE, AND INTERIOR COMPLETIONS

EXTERIOR WALL	ACTUAL LENGTH		OPEN LENGTH		WIDTH OF PUBLIC WAY OR OPEN SPACE	
North						
South						
East						
West						
Total		P		F		W

INCREASE FRONTAGE _____ SPRINKLERS __

 $I_f = 100(F - 0.25) W$

BOTH BUILDING AND TENANT MUST BE INDICATED ON CHART BELOW

FRONTAGE INCREASE FORMULA ALOWABLE AREA FORMULA

		(A)	(B)	(C)	(D)	(E)	RATIO OF	(F)	SEPARATION
STORY	OCCUPANCY	BLDG AREA	TABLE	% OPEN	%	ALLOWABLE	ACTUAL	MAXIMUM	RATING
NO.		PER STORY	5035 AREA	SPACE	SPRINKLER	FLOOR AREA	/ALLOWABLE	BUILDING	REQUIRED
		(ACTUAL)		INCREASE	INCREASE ²	OR		AREA ⁴	
				1		UNLIMITED ³			
1	Business	9,675	23,000	NA	NA	23,000	42%		0
1 -	S-1	0.675	17.500	_ NIA	-NT A	15.500	-5501	3 -5 000	_0
~	Storage	9,675	17,500	NA	NA	17,500	55%	35,000	
2	Business	409	23,000	NÅ	NA	23,000	2%	γ	0
2	- S-1-	_1.001	17 500	NA	NIA	17.500	120		0
	Storage	-1,991	17,500	NA	NA	17,500	12%		<i></i>
	1	Ι.	7					, ,	

- 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 = _____ ft (F)
- b. Total Building Perimeter = ____ ft (P)
- c. Ratio $(F/P) = \underline{\hspace{1cm}} (F/P)$
- d. $W = Minimum width of public way = ____ ft (W)$
- e. Percent of frontage increase $I_f = 100 [\overline{F/P} 0.25] \times W/30 =$ ____(%) ² The sprinkler increase per Section 506.3 is as follows:
- a. Multistory building $I_s = 200$ percent
- b. Single story building $I_s = 300$ percent ³ Unlimited area applicable under conditions of Sections Group B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.4, 507.7);
- Group A motion picture (507.10); Malls (507.11); and H-2 aircraft paint hangers (507.8). ⁴ Maximum Building Area = total number of stories in the building x E but not greater than 3 x E.
- ⁵ The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.3.2.

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ALLOWABLE HEIGHT

MOST RESTRICTIVE USE (GROUP)	ALLOWABLE HEIGHT (TABLE 503)	INCREASE FOR SPRINKLERS	SHOWN ON PLANS	CODE REFERENCE
Type of Construction	Тур	e II-B	Type II-B	Table 601
Building Height in Feet	H = 55'-0"	H + 20 ft = NA	H = 25'-1"	Table 503
Building Height in Stories	S = 2	S + 1 = NA	S = 2	Table 503

BUILDING DATA THIS SECTION REQUIRED FOR ALL PROJECTS

Construction T	Summer Color
Construction T	
	□ IV-HT □ V-A □ V-B
Mixed	d construction: No Yes Types
Sprinklers:	No Yes NFPA 13 NFPA 13R NFPA 13D
	Partially Sprinklered Special Suppression
Standpipes:	No Yes Class: ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District:	No ☐ Yes (Appendix D) Flood Hazard Area ☐ No ☐ Yes
Building Height	t: 25'-1" 2 Stories
Basement:	⊠ No ☐ Yes
Mezzanine:	⊠ No ☐ Yes
High Rise:	No ☐ Yes Life Safety Plan Sheet # (if provided): A-03
Gross Building	g Area:
FLOOR	EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL
Basement	
Ground Floor	9,675
Mezzanine	
2 nd Floor	409409
3 rd Floor	
4 th Floor	
Тотл	AL 10,084

Building Code Summary

Area of Project Tenant/Alteration/Renovation:

Area of Construction: 11,666

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FIRE PROTECTION REQUIREMENTS THIS SECTION REQUIRED FOR ALL PROJECTS

Life Safety Plan Sheet #, if Provided: A-03

BUILDING	FIRE		RATING	DETAIL#	DESIGN#	DESIGN # FOR	DESIGN
ELEMENT	SEPARATION DISTANCE (FEET)	REQ'D*	PROVIDED (W/ HR* REDUCTION)	AND SHEET #	FOR RATED ASSEMBLY	RATED PENETRATION	FOR RATEL JOINTS
Bearing walls l	Exterior						
North	NA	0					
East	NA	0					
West	NA	0					
South	NA	0					
Interior Bearing	g Walls	0					
Nonbearing walls							
North	>30'-0"	0					
East	>30'-0"	0					
West	>30'-0"	0		1			
South	28'-0"	0					
	100-2001	0					
Interior Non Be		U		-			
Structural frame, in columns, girders, to		0					
Floor construction, supporting beams a construction type.	including	0					
Floor Ceiling Asse	mbly	0					
Columns Supportin	ng Floors	0					
Roof construction, supporting beams a		0					
Roof Ceiling Asser	mbly	0					
Columns Supportin	ng Roof	0					
Shafts – Exit Enclo	osures	1		U419, A-04 & A-05			
Shafts - Other (des	scribe)	NA					
Shafts - Other (des		NA					
Corridor Separatio		NA					
Occupancy Separa		NA					
Party/Fire Wall Se		NA					
Incidental Use Sep		NA					
Dwelling/Sleeping		NA					
Smoke Barrier Sep Tenant Separation	paration	NA					

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PERCENTAGE OF WALL OPENING CALCULATIONS

Allowable openings per Table 705.8 North: >30'-0", unlimited South: 28'-0", 70% allowable, 6% actual East: >30'-0", unlimited West: >30'-0", unlimited

WALL LEGENDS THIS SECTION REQUIRED FOR ALL PROJECTS

CHECK IF THE FOLLOWING ARE PRESENT AND INDICATE BY A WALL LEGEND ON ALL PLANS ☐ Fire Partitions 708 ☐ Fire Walls 705 ☒ Fire Barriers 706 ☐ Smoke Partitions 710 ☐ Smoke Barriers 709 ☐ Shaft Enclosure 707

LIFE SAFETY SYSTEM REQUIREMENTS THIS SECTION REQUIRED FOR ALL PROJECTS

Emergency Lighting:	☐ No	X Yes	
Exit Signs:	☐ No	X Yes	
Fire Alarm:	No No	Yes	
Smoke Detection Systems:	⊠ No	Yes	
Panic Hardware:	⊠ No	Yes	

EXIT REQUIREMENTS NUMBER AND ARRANGEMENT OF EXITS

FLOOR, ROOM AND/OR SPACE		MUM ² OF EXITS	TRAVEL D	ISTANCE	500 CO 100 CO 10	ENT MEANS OF ECTION 1015.2)
DESIGNATION	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1015.1)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
FIRST FLOOR - BUSINESS	2	2	200'-0"	59'-2""	50'-3"	58'-10"
FIRST FLOOR – S-1 STORAGE	2	2	200'-0"	102'-4"	61'-8"	75'-1"
SECOND FLOOR	1	1	75'-0"	32'-10"	NA	NA
Corridor dead ends (S Single exits (Section Common Path of Egr	1015.1; Sectio	n 1019.2)			2	

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OCCUPANT LOAD AND EXIT WIDTH THIS SECTION REQUIRED FOR ALL PROJECTS

	ROUP	(a)	(a) (b) (a÷b) (c)		c)		EXIT WID	DTH (in) ^{2,3,4,5} ACTUAL WIDTH SHOWN ON PLANS		
	AND/OR SPACE DESIGNATION	AREA ¹ SQ. FT.	AREA ¹ PER OCCU- PANT	NUMBER OF OCCU- PANTS	EGRESS WIDTH PER OCCUPANT (TABLE 1005.1)		REQUIRED WIDTH (SECTION 1005.1) (a÷b) x c			
					STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
FIRST FI BUSINE		1,948	100	20	NA	.2	NA	64"	NA	64"
FIRST FI S-1/8TO		7,320	500	15	NA	.2	NA	64"	NA	64"
SECONI FLOOR - BUSINE	### 	409	100	3	.3	.2	48"	32"	48"	32")
SECONI FLOOR STORAG	S-1	1,860	200	4	.3	.2	48"	32"	48"	32"
RESTRO	1000			3						
Total # of 0	Occupants			41						

¹ See Table 1004.1.1 to determine whether net or gross area is applicable.

² Minimum stairway width (Section 1009.1); min. corridor width (Section 1017.2); min. door width (Section 1008.1.1) ³ Minimum width of exit passageway (Section 1021.2)

⁴ The loss of 1 means of egress shall not reduce the available capacity to less than 50 percent of the total required (Section 1005.1) ⁵ Assembly occupancies (Section 1025)

ASSEMBLY OCCUPANCY INFORMATION - NA

Space Description	Area - SF	Occupant Load Factor	Occupant Load	Exit Width	Exit Quantity
-					
TOTAL		_			

PLUMBING FIXTURE REQUIREMENTS

OCCUPANCY		WATERCLOSETS		URINALS	LAVA	TORIES	SHOWERS/	DRINKING FOUNTAINS		
		MALE	FEMALE		MALE	FEMALE	TUBS	REGULAR	ACCESSIBLE	
BUSINESS		.4	.4		.3	.3				
S-1 STORA	GE	.2	.2		.2	.2				
Total Required		1	1		1	1		1	1	
Total Provid	led	2	1	1		1		1	1	
BUILDING	BUI	BER OF	TOTAL FIXTURE UNIT	WATER SERVICE S	SIZE WATER FIXTURE		FIXTURE	NOTES		
DRAIN SIZE	DR	RAINS	LOAD		SE	ERVICES	UNIT LOAD			

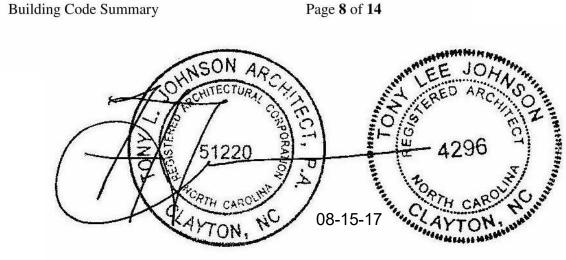
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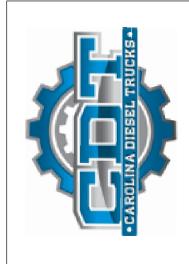
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Structural Design Loads – SEE STRUCTURAL

	Structure Conforms to "Conventional Light F	rame l	Provisions of 2308
1	_Yes, continue _No, Go to Line 9		State of Sta
2	Roof Live Load =		PSF
3	Floor Live Load =		PSF
4	Ground Snow Load $(Pg) =$		PSF
5	Basic Wind Speed, 3 sec. Gust =		MPH
6	Seismic Site Class =		
7	Seismic Design Category =		
8	Go to Line 44		
9	Live Loads		Area
10	Floor Live Load (indicate area) =		PSF
11	Floor Live Load (indicate area) =		PSF
12	Floor Live Load (indicate area) =		PSF
13	Live Load Reduction used in Design	Yes	No
14	Roof Live Load =		PSF
15	Roof Snow Load Data		
16	Flat-Roof Snow Load (Pf) =		PSF
17	Snow Exposure Factor (Ce) =		
18	Snow Importance Factor (Is) =		
19	Thermal Factor (Ct) =		
20	Wind Design Data		
21	Basic Wind Speed, 3 sec. Gust =		MPH
22	Wind Importance Factor (Iw) =		
	•		(If multiple exposures are used indicate
23	Wind Exposure		directions)
24	Internal Pressure Coefficient		
			(If elements are not designed by the registered
25	Components and Cladding Loads =		design professional)
26	Wind Base Shear, Wx		KIPS
27	Wind Base Shear, Wyx		KIPS
28	Earthquake Design Data		
29	Seismic Important Factor (Ie) =		
30	Occupancy Category		
31	Mapped Spectral Response Acceleration Ss		
32	Mapped Spectral Response Acceleration S1		
33	Site Class		(Provide soils report if Site Class is not "D")
34	Spectral Response Coefficient, Sds =		
35	Spectral Response Coefficient, Sd1 =		
36	Seismic Design Category =		
37	Building (Structural) System		
38	Basic Seismic Force Resisting System		
39	Seismic Response Coefficient (Cs) =		



REVISIONS 02.12.18 08.10.18



CAROLINA DIESEL TRUCKS

. IZABETH COUR I NC **27520**

08.15.17