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REVISIONS

DATE 8/2/2019
PROJECT NUMBER 9217-000

SHEET TITLE
APPENDIX B

SHEET NUMBER
G-001

2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: New Corporate Hangar
Address: 4005 Airport Drive, Southport, NC 28461
Owner/Authorized Agent: Howie Franklin, (910) 437-6483, hfranklin@twg.com
Owned By: Client
Code Enforcement Jurisdiction: City

CONTACT: Travis Pines

Disc.	Firm	Name	Lic. #	Tel. #	E-mail
Civil	Talbert & Bright	Stephen Bright	38504	(910) 763-5350	sbright@twgarchitects.com
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Plumbing	Saber	H. Wayne King	26005	(704) 373-0068	hwking@saber-engineering.com
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Electrical	Saber	Rick Morrison	23969	(704) 373-0068	rmorrison@saber-engineering.com

2018 NC BUILDING CODE: New Building
RISK CATEGORY (Table 1604.5): Proposed: II
BASIC BUILDING DATA
Construction Type: II-B
Sprinklers: No
Standpipes: No
Primary Fire District: No Flood Hazard Area: No
Special Inspections Required: You Contact the local jurisdiction for additional provisions and requirements.

Gross Building Area Table

Floor	EXISTING (sq. ft.)	NEW (sq. ft.)	Sub-Total
1st Floor	0	10,334	10,334

ALLOWABLE AREA
Primary Occupancy Classification(s): Storage - S-1 Business
Accidental Occupancy Classification(s):
Incidental Uses (Table 509):
2018 NC Administrative Code and Policies

ACCESSIBLE DWELLING UNITS - N/A

ACCESSIBLE PARKING (SECTION 1109)

Lot	Ex. 1,2,3	4	5	6	7	8	9	10	11	12
1	0	0	0	0	0	0	0	0	0	0

PLUMBING FIXTURE REQUIREMENTS (TABLE 2302.1)

Use	Urn	Sinks	Toilets	Shower	Water	Drain	Service
U	4	3	1	1	1	1	1
Total Req.	4	3	1	1	1	1	1
Total Prov.	4	3	1	1	1	1	1

* Hangar is an unheated storage building periodically used has no occupancy fixtures
Business 100/gross / 434 - 4.5 - 5

SPECIAL APPROVALS - N/A

ENTRANCE CANOPY - SEE ARCHITECTURE
STRUCTURAL DESIGN - SEE STRUCTURAL DRAWINGS
MECHANICAL - SEE MECHANICAL DRAWINGS
ELECTRICAL DESIGN - SEE ELECTRICAL DRAWINGS

Special Uses (Chapter 4 - List Code Sections): N/A
Special Provisions (Chapter 5 - List Code Sections): N/A
Mixed Occupancy: Yes Separation: 2 Hr. Exception: N/A

Separated Use (509.5.1) - See below for area calculations for each story. For areas < 1,000 sq. ft., the area of the portion of the actual floor area of each story shall be the allowable floor area for each use shall not exceed 1,000 sq. ft.

Actual B Area	Actual S-1 Area	% S-1	≤ 100
434	3,800	0.58	100
23,000	23,500		

Floor	Area (sq. ft.)	Ex. 1,2,3	4	5	6	7	8	9	10	11	12
1	10,334	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0

Provisional area increases from Section 506.3 are computed as:
a. Perimeter which fronts a public way or open space having 20 foot minimum width = (107)
b. Total Building Perimeter = (0)
c. Ratio (RFR) = (0.00)
d. W = Minimum width of public way = (N/A)
e. Percent of Increase Increase = (100 * RFR / 0.25) * W = (0)
f. Additional area applicable under conditions of Section 507
Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2)
The maximum area of open parking garages must comply with Table 406.5.4
Provisional increase is based on the unpermitted area value in Table 506.2

ALLOWABLE HEIGHT

Building Height in Feet (Table 503.3)	35	35
Building Height in Stories (Table 504.4)	2	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 412.3.3.
3. The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS

Fire Protection Requirement	Code Reference	2018 NC	2015 NC	2012 NC	2009 NC	2006 NC	2003 NC	2000 NC
Structural Frame including columns, girders, joists	508.2	508.2	N/A	N/A	N/A	N/A	N/A	N/A
Roofing	508.3	508.3	N/A	N/A	N/A	N/A	N/A	N/A
Interior	508.4	508.4	N/A	N/A	N/A	N/A	N/A	N/A
Nonbearing Walls and Partitions	508.5	508.5	N/A	N/A	N/A	N/A	N/A	N/A
Fire Construction including separating doors and joints	508.6	508.6	N/A	N/A	N/A	N/A	N/A	N/A
Means of Egress Assembly	508.7	508.7	N/A	N/A	N/A	N/A	N/A	N/A
Exit Enclosures	508.8	508.8	N/A	N/A	N/A	N/A	N/A	N/A
Roof Construction including separating doors and joints	508.9	508.9	N/A	N/A	N/A	N/A	N/A	N/A
Roof Ceiling Assembly	508.10	508.10	N/A	N/A	N/A	N/A	N/A	N/A
Exit Enclosures - Roof	508.11	508.11	N/A	N/A	N/A	N/A	N/A	N/A
Exit Enclosures - Exit	508.12	508.12	N/A	N/A	N/A	N/A	N/A	N/A
Exit Enclosures - Other	508.13	508.13	N/A	N/A	N/A	N/A	N/A	N/A
Corridor Separation	508.14	508.14	N/A	N/A	N/A	N/A	N/A	N/A
Occupancy Area Separation	508.15	508.15	N/A	N/A	N/A	N/A	N/A	N/A
Perimeter Wall Separation	508.16	508.16	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Detector Separation	508.17	508.17	N/A	N/A	N/A	N/A	N/A	N/A
Smoke Partitions	508.18	508.18	N/A	N/A	N/A	N/A	N/A	N/A
Interior Wall Separation	508.19	508.19	N/A	N/A	N/A	N/A	N/A	N/A
Interior Wall Separation	508.20	508.20	N/A	N/A	N/A	N/A	N/A	N/A

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PERCENTAGE OF WALL OPENING CALCULATION

Exit Enclosure Area	Fire-Resistant Wall (Fire-Resistant Wall Area) / Total Wall Area	Minimum (Table 703.5)	Actual	Minimum (Table 703.5)
Northeast	100%	100%	100%	100%
Southwest	100%	100%	100%	100%
West	100%	100%	100%	100%
East	100%	100%	100%	100%

LIFE SAFETY SYSTEM REQUIREMENTS

Life Safety System	Code Reference	2018 NC	2015 NC	2012 NC	2009 NC	2006 NC	2003 NC	2000 NC
Emergency Lighting	907.5.1	907.5.1	N/A	N/A	N/A	N/A	N/A	N/A
Exit Signs	907.5.2	907.5.2	N/A	N/A	N/A	N/A	N/A	
Fire Alarm	907.5.3	907.5.3	N/A	N/A	N/A	N/A	N/A	
Smoke Detector	907.5.4	907.5.4	N/A	N/A	N/A	N/A	N/A	
Carbon Monoxide Detection	907.5.5	907.5.5	N/A	N/A	N/A	N/A	N/A	

LIFE SAFETY PLAN REQUIREMENTS

- Life Safety Plan Sheet #: LS-101
- Fire and/or smoke rated wall functions (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)
 - Occupancy Use 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 distances (Tables 1006.2.1 & 1006.2.2(1))
 - Travel end lengths (1020-4)
 - Clear exit widths for each exit door
 - Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1015.3)
 - 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
 - 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 equipped with hold-open devices
 - Location of emergency escape windows (1018)
 - The square footage of each fire area (100)
 - 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

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