

CITY OF WILMINGTON SKYLINE CENTER UPFIT

LS3P: 7701-230545
929 N Front Street
Wilmington, North Carolina 28401



CURRENT ISSUE: 2024.08.12 100% PERMIT SET



OWNER
CITY OF WILMINGTON

929 N FRONT STREET
WILMINGTON, NC 28401
(910) 765-7821
Chad McEwen
chad.mcewen@wilmingtonnc.gov

ARCHITECT
LS3P ASSOCIATED LTD

101 N THIRD STREET, SUITE 500
WILMINGTON, NC 28401
(910) 790-9901
Bob Pressley
bobpressley@ls3p.com

MEP ENGINEERS
CBHF ENGINEERS

2246 YAUPON DR
WILMINGTON, NC 28401
910.791.4000
David Hahn, Allen Cribb
DHahn@cbhfengineers.com,
ACribb@cbhfengineers.com

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT 1 AND 2 FAMILY DWELLINGS AND TOWNHOUSES) (UPDATED PER OSFM 06/15/2020 REVISION)

NOTE: ALL WORK UNDER THIS SCOPE TO BE INTERIOR UPFIT ONLY. INFORMATION PROVIDED FOR FIRE PROTECTION IS FOR REFERENCE ONLY AND TO CONFORM EXISTING TYPE 1A CONSTRUCTION TYPE

Name of Project: CITY OF WILMINGTON UPFIT AT SKYLINE
 Address: 929 N. FRONT STREET, WILMINGTON, NC
 Owner / Agent: CHAD McEVEN Phone #: 9107657821 Email: chad.mceven@wilmingtonnc.gov
 City/County: City/County Private State
 Zip Code: 28401
 County: New Hanover State

CONTACT: BOB PRESSLEY, LSP, 910-523-6205, bobpressley@lsp.com

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural/Structural	LSP	Danny Adams	9657	910.790.9901	dadams@lsp.com
Civil	N/A	N/A	N/A	N/A	N/A
Electrical	CBHF	W. Allen Cribb	023311	910.791.4000	acribb@cbhfg.com
Fire Alarm	TBD	TBD	TBD	TBD	TBD
Plumbing	CBHF	David M. Hahn	023551	910.791.4000	dahahn@cbhfg.com
Mechanical	CBHF	David M. Hahn	023551	910.791.4000	dahahn@cbhfg.com
Sprinkler-Standpipe	TBD	TBD	TBD	TBD	TBD
Structural	N/A	N/A	N/A	N/A	N/A
Retaining Walls/5' High	N/A	N/A	N/A	N/A	N/A
Landscape	N/A	N/A	N/A	N/A	N/A
Other	N/A	N/A	N/A	N/A	N/A

Other should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

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 additional procedures and requirements

2018 NC EXISTING BUILDING CODE: N/A Prescriptive Repair Chapter 14
 Alteration: Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED: (date) 2007 CURRENT OCCUPANCY(S) (Ch. 3): B, A-3
 RENOVATED: (date) UPFIT, 2022 PROPOSED OCCUPANCY(S) (Ch. 3): B, A-3

RISK CATEGORY (Table 1604.5): Current: N/A I II III IV
 Proposed: N/A I II III IV

BASIC BUILDING DATA
 Construction Type: I-A I-B I-C I-D I-E I-F I-G I-H I-I I-J I-K I-L I-M I-N I-O I-P I-Q I-R I-S I-T I-U I-V I-W I-X I-Y I-Z
 Sprinklers: No Partial Yes NFPA 13 NFPA 13R NFPA 13D
 Standpipes: No Yes Class I II III Wet Dry
 Fire District: No Yes Flood Hazard Area: No Yes
 Special Inspections Required: No Yes (Contact the local inspection jurisdiction for additional procedures and requirements.)

GROSS BUILDING AREA TABLE / WORK AREA:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENOVATED (SQ FT)	SUB-TOTAL
1st FLOOR	61,173	0	24,733	N/A
2nd FLOOR	39,914	0	704	N/A
3rd FLOOR	31,382	0	12,908	N/A
4th FLOOR	28,646	0	0	N/A
5th FLOOR	28,646	0	0	N/A
6th FLOOR	28,646	0	0	OOO
7th FLOOR	28,646	0	0	OOO
8th FLOOR	28,646	0	0	OOO
9th FLOOR	28,646	0	0	OOO
10th FLOOR	28,646	0	822	OOO
11th FLOOR	19,012	0	736	OOO
12th FLOOR	19,012	0	1040	OOO
MECHANICAL	19,012	0	0	OOO
	551,142	40,943	< 50% OF BUILDING AREA = LEVEL II ALTERATION	

ALLOWABLE AREA
 Primary Occupancy Classification(s) (Chapter 3):
 Assembly: A-1 A-2 A-3 A-4 A-5
 Business: B
 Educational: E
 Factory: F-1 Moderate F-2 Low
 Hazardous: H-1 Detonate H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional: I
 Mercantile: M
 Residential: R-1 R-2 R-3 R-4
 Storage: S-1 Moderate S-2 Low High-piled
 Utility and Miscellaneous: U
 Parking Garage Open Enclosed Repair Garage

Accessory Occupancy Classification(s) (Chapter 5 - 508.2): N/A
 Incidental Uses (Table 509): N/A
 Special Uses (Chapter 4 - List Code Sections): N/A
 Special Provisions (Chapter 5 - List Code Sections): N/A
 Mixed Occupancy: No Yes Separation: O Hr. Exception: NON-SEPARATED USE (508.3)
 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.

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

$$\frac{\text{N/A}}{\text{N/A}} + \frac{\text{N/A}}{\text{N/A}} = \text{N/A} + \text{N/A} = \text{N/A} \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	BLDG AREA PER STORY (ACTUAL)	TABLE 506.2 ¹ AREA	(C) AREA FOR FRONTAGE INCREASE ⁵	(D) ALLOWABLE AREA PER STORY OR UNLIMITED ³
	NO FRONTAGE INCREASE NECESSARY		UL	N/A	UL

¹ Frontage area increases from Section 506.3 are computed thus:
 a. Perimeter which fronts a public way or open space having 20 feet minimum width, N/A (F).
 b. Total Building Perimeter = N/A (P)
 c. Ratio (F/P) = N/A (F/P)
 d. W = Minimum width of public way = N/A (W)
 e. Percent of frontage increase I_f = 100(F/P - 0.25 x W / 30 = N/A (%)
² Unlimited area applicable under conditions of Section 507.
³ Maximum Building Area = total number of stories in the building x D (maximum 3 stories) (506.2).
⁴ The maximum area of open parking garages must comply with Table 406.5.4.
⁵ Frontage increase is based on the unspinkered area value in Table 506.2.

ALLOWABLE HEIGHT

Building Height in Feet (Table 504.3) ²	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
Building Height in Feet (Table 504.3) ²	UL	207'	504.3 or 504.4
Building Height in Stories (Table 504.4) ³	UL	14	504.3 or 504.4

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.
³ The maximum height of open parking garages must comply with Table 406.5.4.

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (w/ Reduct.)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, Including Columns, Girders, Trusses (Table 601)	--	3 HR	3 HR	EXSTG	EXSTG	EXSTG	EXSTG
Bearing Walls (Table 601)							
Exterior	>30'	N/A	N/A	--	--	--	--
North	>30'	N/A	N/A	--	--	--	--
East	>30'	N/A	N/A	--	--	--	--
West	>30'	N/A	N/A	--	--	--	--
South	>30'	N/A	N/A	--	--	--	--
Interior	--	N/A	N/A	--	--	--	--
Nonbearing Walls and Partitions (Table 602)							
Exterior Walls	>30'	0 HR	0 HR	--	--	--	--
North	>30'	0 HR	0 HR	--	--	--	--
East	>30'	0 HR	0 HR	--	--	--	--
West	>30'	0 HR	0 HR	--	--	--	--
South	>30'	0 HR	0 HR	--	--	--	--
Interior Walls and Partitions (Table 601)							
Floor Construction, Including Supporting Beams and Joists (Table 601)	2-HR	2-HR	EXSTG	EXSTG	EXSTG	EXSTG	EXSTG
Floor Ceiling Assembly (Table 601)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columns Supporting Floors	3-HR	3-HR	EXSTG	EXSTG	EXSTG	EXSTG	EXSTG
Roof Construction, Including Supporting Beams and Joists (Table 601)	1-1/2 HR	1-1/2 HR	EXSTG	EXSTG	EXSTG	EXSTG	EXSTG
Roof Ceiling Assembly (Table 601)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Columns Supporting Roof	3-HR	3-HR	EXSTG	EXSTG	EXSTG	EXSTG	EXSTG
Shaft Enclosures - Exit (Sec 1023)	2-HR	2-HR	EXSTG	EXSTG	EXSTG	EXSTG	EXSTG
Shaft Enclosures - Other (Sec 713)	2-HR	2-HR	EXSTG	EXSTG	EXSTG	EXSTG	EXSTG
Corridor Separation (Sec 1023.1)	0 HR	0 HR	--	--	--	--	--
Occupancy / Fire Barrier Separation (Sec 707)	N/A	N/A	--	--	--	--	--
Party / Fire Wall Separation (Sec 706)	N/A	N/A	--	--	--	--	--
Smoke Barrier Separation (Sec 709)	N/A	N/A	--	--	--	--	--
Smoke Partition (Sec 710)	N/A	N/A	--	--	--	--	--
Tenant / Dwelling / Unit / Sleeping Unit Separation (Sec 402)	0 HR	0 HR	--	--	--	--	--
Incidental Use Separation (Sec 509)	N/A	N/A	--	--	--	--	--

* Indicates 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 AREA SHOWN ON PLANS (%)

NO CHANGES OR ALTERATIONS TO STRUCTURE OF EXISTING BUILDINGS ARE BEING PROPOSED UNDER THIS SCOPE OF WORK.

LIFE SAFETY SYSTEM REQUIREMENTS
 Emergency Lighting: No Yes
 Exit Signs: No Yes
 Fire Alarms: No Yes
 Smoke Detection Systems: No Yes Partial
 Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS
 Life Safety Plan Sheet #: G-1001
 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)
 Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)
 Occupant loads for each area
 Exit Sign locations (1013)
 Exit access travel distances (1017)
 Common path of 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 accommodate based on egress width (1005.3)
 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 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)

Classification	TOTAL UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE B UNITS PROVIDED	TYPE B UNITS REQUIRED	TOTAL UNITS PROVIDED
	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ACCESSIBLE PARKING (SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	# OF ACCESSIBLE SPACES PROVIDED	TOTAL # ACCESSIBLE PROVIDED
		96' SPACES	132' SPACES
TOTAL			

THIS PROJECT DOES NOT INCREASE THE OCCUPANT LOAD OF ANY OCCUPANCY. THEREFORE, THERE IS NO CHANGE TO THE PARKING COUNTS.

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

USE	WATERCLOSETS	URINALS	LAVATORIES	SHOWERS	DRINKING FNTNS.
MALE/FEMALE UNITS	MALE/FEMALE UNITS	MALE/FEMALE UNITS	TUBS	REGULAR/ACCESSIBLE	
SEX	SEX	SEX			

SPACE EXISTG: ALL WATERCLOSETS, URINALS, AND LAVATORIES ARE EXISTING.
 NEW: THIS PROJECT DOES NOT INCREASE THE OCCUPANT LOAD OF ANY OCCUPANCY. THEREFORE, THERE IS NO CHANGE TO THE FIXTURE COUNTS.
 REQ'D

SPECIAL APPROVALS
 Special Approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., Describe Below)
 NEW HANOVER BUILDING SAFETY

ENERGY SUMMARY

ENERGY REQUIREMENTS:
 The following data shall be considered minimum and any special attribute required to meet the energy code must 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. THIS PROJECT SCOPE IS LIMITED TO INTERIOR WORK.
 ONLY NO ALTERATIONS TO THE EXTERIOR ENVELOPE BEING PROPOSED.
 Existing building envelope complies with code: No Yes (remainder of this section is not applicable)
 Exempt building: No Yes (provide code or authority reference)
 Climate Zone: N/A 1A 1B 2A
 Method of Compliance: Energy Code Performance Prescriptive
 ASHRAE 90.1 Performance Prescriptive
 (If "Other" specify source here)

THERMAL ENVELOPE: (Prescriptive Method Only)
 Roof/Ceiling Assembly (each assembly)
 Description of assembly:
 U-Value of total assembly: THIS PROJECT SCOPE IS LIMITED TO INTERIOR WORK
 R-Value of insulation: ONLY NO ALTERATIONS TO THE THERMAL ENVELOPE BEING PROPOSED
 Openings (windows or doors with glazing) ENVELOPE ARE BEING PROPOSED
 U-Value of assembly: THEREFORE, NO THERMAL ENVELOPE INFORMATION IS PROVIDED AS EXISTING IS TO REMAIN.
 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:
 Floor slabs on grade (each assembly)
 Description of assembly:
 U-Value of total assembly:
 R-Value of insulation:
 Horizontal/Vertical requirement:
 Slab Heated:

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEET IF APPLICABLE):
 DESIGN LOADS:
 Importance Factors: Wind(w) 1.0 1.1 1.2
 Snow(s) 0.8 1.0 1.1 1.2
 Seismic(e) 1.0 1.25 1.5
 Live Loads: Roof _____ psf NO CHANGES OR ALTERATIONS TO STRUCTURE OF EXISTING BUILDING ARE BEING PROPOSED UNDER THIS SCOPE OF WORK.
 Mezzanine _____ psf
 Floor _____ psf
 Ground Snow Load: _____ psf
 Wind Load: Ultimate Wind Speed: _____ mph (ASCE-7) BASIC WIND SPEED
 Exposure Category: N/A B C D

SEISMIC DESIGN CATEGORY: N/A A B C D
 Provide the following Seismic Design Parameters:
 Risk Category (Table 1604.5) N/A I II III IV
 Spectral Response Acceleration: S_v _____ %g
 Site Classification (ASCE 7) N/A A B C D E F
 Data Source: N/A Field Test Presumptive Historical Data
 Basic Structural System (check one) N/A Dual w/ Special Moment Frame
 Bearing Wall Dual w/ Special Moment Frame
 Building Frame Dual w/ Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Simplified Equivalent Lateral Force Dynamic
 Analysis Procedure: Simplified Equivalent Lateral Force Dynamic
 Architectural, Mechanical, Components anchored? N/A Yes No

LATERAL DESIGN CONTROL: N/A Earthquake Wind
 SOIL BEARING CAPACITIES:
 Field Test (provide copy of test report) _____ psf
 Presumptive Bearing capacity _____ psf
 File size, type, and capacity _____ psf

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEET IF APPLICABLE):
 MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
 Thermal Zone:
 winter dry bulb: _____
 summer dry bulb: _____ EXISTING MECHANICAL SYSTEM AND EQUIPMENT TO REMAIN.
 relative humidity: _____ SCOPE OF WORK LIMITED TO RELOCATION OF SUPPLY DIFFUSERS AND RETURNS AS REQUIRED
 Building heating load:
 Building cooling load:
 Mechanical Spacing Conditioning System
 Unitary
 description of unit: _____
 heating efficiency: _____
 cooling efficiency: _____
 size category of unit: _____
 Boiler
 size category, if oversized, state reason: _____
 Chiller
 size category, if oversized, state reason: _____
 List equipment efficiencies: _____

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEET IF APPLICABLE):
 ELECTRICAL SYSTEM AND EQUIPMENT
 Method of Compliance: Energy Code: Prescriptive Performance
 ASHRAE 90.1 Prescriptive Performance
 Lighting schedule (each fixture type)
 lamp type required in fixture _____
 number of lamps in fixture _____
 ballast type used in the fixture _____
 number of ballast 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 Required Prescriptive Compliance
 (When using the 2018 NECSS, note 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

FIRE PROTECTION
 NOTE: UPFIT IS AN ALTERATION LEVEL II, AND PER 806.2 OF THE EXISTING NC BUILDING CODE, AN ACCESSIBLE ROUTE IS PROVIDED TO ALL AREAS CONSIDERED PRIMARY FUNCTIONS, WHICH INCLUDES THE ADDITION OF A FAMILY RESTROOM ON LEVEL 1. SEE SHEET A-101

STRUCTURAL DESIGN: REFERENCE STRUCTURAL SHEET #: EXSTG CONSTRUCTION
 MECHANICAL DESIGN: REFERENCE MECHANICAL SHEET #: EXSTG CONSTRUCTION
 ELECTRICAL DESIGN: REFERENCE ELECTRICAL SHEET #: EXSTG CONSTRUCTION

ARCHITECTURAL

PROJECT INFORMATION
 G-000 COVER SHEET 2024.08.12
 G-001 APPENDIX B AND SHEET INDEX 2024.08.12
 CODE COMPLIANCE
 G-101 LIFE SAFETY PLAN-LEVEL 1 2024.08.12
 G-102 LIFE SAFETY PLAN-LEVEL 2 AND LEVEL 3 2024.08.12
 ARCHITECTURAL INFORMATION
 A-001 PARTITION TYPES AND PHASING KEY 2024.08.12
 ARCHITECTURAL PLANS
 A-101 FLOOR PLAN-LEVEL 1- DEMO & NEW 2024.08.12
 A-102 FLOOR PLAN-LEVEL 2- DEMO & NEW 2024.08.12
 A-103 FLOOR PLAN-LEVEL 3- DEMO & NEW 2024.08.12
 A-110 FLOOR PLAN 10,11, 12 2024.08.12

ARCHITECTURAL REFLECTED CEILING PLANS
 A-201 RCP-LEVEL 1- DEMO & NEW 2024.08.12
 A-202 RCP-LEVEL 2- DEMO & NEW 2024.08.12
 A-203 RCP-LEVEL 3- DEMO & NEW 2024.08.12
 ARCHITECTURAL WALL SECTIONS
 A-301 SECTIONS & DETAILS - CITY COUNCIL 2024.08.12
 ARCHITECTURAL ENLARGED PLANS
 A-410 ENL. PLAN - CUSTOMER SERVICE 2024.08.12
 A-411 ENL. PLAN, RCP 4 INT. DETAILS- CITY COUNCIL 2024.08.12
 A-412 ENL. PLAN- BATHROOMS 2024.08.12
 ARCHITECTURAL SCHEDULES
 A-601 DOOR SCHEDULES 2024.08.12
 A-700 INTERIOR FINISH LEGEND AND SCHEDULE 2024.08.12
 ARCHITECTURAL INTERIOR ELEVATIONS
 A-701 INTERIOR ELEVATIONS AND CASEWORK DETAILS 2024.08.12
 A-702 INTERIOR ELEVATIONS - STOREFRONT 2024.08.12
 ARCHITECTURAL FLOOR PATTERN PLANS
 A-801 FLOOR FINISH PLAN-LEVEL 1 AND LEVEL 3 2024.08.12

MECHANICAL
 M-001 SPECIFICATIONS, ABBREVIATIONS, LEGEND AND SCHEDULE 2024.08.12
 M-001 MECHANICAL LEVEL 1 FLOOR PLAN AREA "A" DEMOLITION 2024.08.12
 M-102 MECHANICAL LEVEL 1 FLOOR PLAN AREA "B" DEMOLITION 2024.08.12
 M-103 MECHANICAL LEVEL 2 FLOOR PLAN AREA "A" DEMOLITION 2024.08.

