NORTH CAROLINA BUILDING CODE SUMMARY

100 BED NURSING FACILITY

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

Name of Project: PRUITTHEALTH - FORSYTH COUNTY, LLC. -100 BED NURSING FACILITY

Address: 3960 ADVANTAGE WAY - WINSTON-SALEM, NORTH CAROLINA Zip Code: 27101

Owner/Authorized Agent: NICOLE FRAZIER Phone 678-533-6710 E-mail nfrazier@pruitthealth.com

Owned By: ☐ City/County ☒ Private ☐ State

Code Enforcement Jurisdiction: ☒ City WINSTON-SALEM ☐ County _____ ☐ State

DESIGNER OF RECORD:

LEAD DESIGN PROFESSIONAL: DAVID R. POLSTON, ARCHITECT

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	DAVID R. POLSTON, ARCH.	DAVID R. POLSTON	3275	(910) 350-8900	polstonarch@bellsouth.net
Civil	CURRY ENGINEERING	JARED MATTHEWS	C48484	(919) 552-6549	jared@curryeng.com
Electrical	CBHF ENGINEERS, PLLC	R. DUNCAN MCFADYEN	E-633	(910) 791-4000	dmcfadyen@cbhfengineers.com
Fire Alarm	CBHF ENGINEERS, PLLC	R. DUNCAN MCFADYEN	E-633	(910) 791-4000	dmcfadyen@cbhfengineers.com
Plumbing	CBHF ENGINEERS, PLLC	JAMES R. BENSON	18962	(910) 791-4000	jbenson@cbhfengineers.com
Mechanical	CBHF ENGINEERS, PLLC	JAMES R. BENSON	18962	(910) 791-4000	jbenson@cbhfengineers.com
Sprinkler–Standpipe	DESIGN / BUILD BY SPRINKLER CONTRACTOR				
Structural	HAUSER-CREECH	THEODORE A. DETERS	C48492	(919) 871-7575	ted@hauser-creech.com
Retaining Walls > 5' High					
Other					

2018 EDITION OF NC 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: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level 1 ☐ Level 2 ☐ Level 3
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) _____ CURRENT OCCUPANCY(S) (CH.3) _____
RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (CH.3) _____
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 ☐ V–B
Sprinklers: ☐ No ☐ Partial ☒ Yes ☒ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes (Primary) Flood Hazard Area: ☐ No ☒ Yes
Special Inspections Required: ☐ No ☒ Yes

Gross Building Area Table:

FLOOR:	EXISTING (SQFT.)	NEW (SQFT.)	SUB–TOTAL
3rd Floor			
2nd Floor			
1st. Floor		14,770 S.F.	
Mezanine			
Basement			
Total		14,770 S.F.	

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 ☐ I–1 Condition ☐ 1 ☐ 2
☒ I–2 Condition ☒ 1 ☐ 2
☐ I–3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4
☐ I–4
Mercantile ☐
Residential ☐ R–1 ☐ R–2 ☐ R–3 ☐ R–4
Storage ☐ S–1 Moderate ☐ S–2 Low ☐ S–3 High–piled
☐ Parking Garage ☐ Open ☐ Enclosed ☐ Repair Garage
Utility and Miscellaneous ☐

Accessory Occupancy Classification(s): ASSEMBLY A-2, BUSINESS, STORAGE S-1 MODERATE

Incidental Uses (Table 509): LAUNDRY ROOMS OVER 100 SQUARE FEET, GROUP I-2 WASTE AND LINEN, COLLECTION ROOMS, GROUP I-2 STORAGE ROOMS OVER 100 SQUARE FEET, GROUP I-2 COMMERCIAL KITCHENS, AND GROUP I-2 LAUNDRIES EQUAL TO OR LESS THAN 100 SUARE FEET.

Special Uses (Chapter 4 – List Code Selections): SECTION 407

Special Provisions (Chapter 5 – List Code Selections): N/A

Mixed Occupancy: ☐ No ☒ Yes Seperation ____ 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.

☐ Seperated Use (508.4) – See below for area calcs.
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.

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

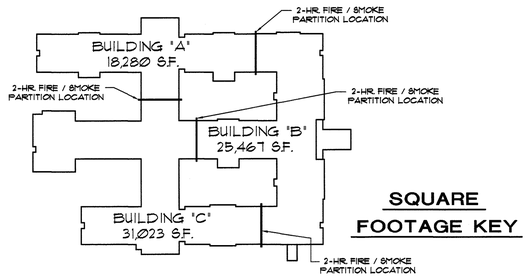
_____ + _____ + ...= ____ ≤ 1.00

NOTE: FACILITY IS DIVIDED W/ (4) 2 HOUR FIREWALLS - BUILDINGS 'A', 'B', AND 'C'
ALLOWABLE AREA PER TABLE 506.2 IS FOR SPRINKLED ONE STORY

	STORY NO.	DESCR. AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA [4]	(C) AREA FOR FRONTAGE INCREASE [1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED [2,3]
BLDG. 'A'	1	I-2	18,280 S.F.	38,000 S.F.	NOT USED	38,000 S.F.
BLDG. 'B'	1	I-2	25,467 S.F.	38,000 S.F.	NOT USED	38,000 S.F.
BLDG. 'C'	1	I-2	31,023 S.F.	38,000 S.F.	NOT USED	38,000 S.F.

[1] Frontage area increases from Section 506.3 are computed thus:
a. Perimeter which fronts a puplic 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] x W/30 = _____ (%)

[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 parking garages must comply with 406.5.4.
[5] Frontage increase is based on the unsprinklered area value in Table 506.2.



SQUARE FOOTAGE KEY

E. PROPOSED BUILDING AREA:

BUILDING 'A' = 18,280 S.F. IS LESS THAN 38,000 S.F. ALLOWED
BUILDING 'B' = 25,467 S.F. IS LESS THAN 38,000 S.F. ALLOWED
BUILDING 'B' = 31,023 S.F. IS LESS THAN 38,000 S.F. ALLOWED

TOTAL BUILDING S.F. = 74,770 S.F.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET (Table 504.3)	50'	38'	TABLE 504.3
BUILDING HEIGHT IN STORIES (Table 504.4)	1 STORY	1 STORY	TABLE 504.4

FIRE PROTECTION REQUIREMENTS

LIFE SAFETY PLAN SHEET NO., IF PROVIDED SHEET L8-1 AND L8-2

BUILDING ELEMENT	FIRE SEPERATION DISTANCE (FEET)	RATING REQ'D.	RATING PROVIDED (W/ REDUCTION) *	DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED ASSEMBLY	DESIGN NO. FOR RATED PENETRATION	DESIGN NO. FOR RATED JOINTS
Structural frame, including columns, girders, and trusses							
Bearing walls							
Exterior	> 30'	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
North	> 30'	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
East	> 30'	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
West	> 30'	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
South	> 30'	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
Interior	N/A	1-HR.	1-HR.	DTL. # 4 / F82	U-305		
Nonbearing walls and partitions Exterior walls							
North	N/A	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
East	N/A	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
West	N/A	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
South	N/A	1-HR.	1-HR.	DTL. # 2 / F81	U-356		
Interior walls	N/A	0	———	DTL. # 4 / F82	U-305		
Floor construction including supporting beams and joists							
Floor Ceiling Assembly	N/A	1-HR.	1-HR.	———	SLAB ON GRADE		
Column Supporting Floor	N/A	N/A	N/A	N/A	N/A		
Roof construction including supporting beams and joists							
Roof Ceiling Assembly	N/A	1-HR.	1-HR.	DTL. # 1 / F81	RC-2602		
Column Supporting Roof	N/A	1-HR.	1-HR.	DTL. # 7 / F83	X-938		
Shafts – Exit	N/A	N/A	N/A	N/A	N/A		
Shafts – Other	N/A	N/A	N/A	N/A	N/A		
Corridor Seperation	N/A	0	———	DTL. # 4 / F82	U-305		
Occup./Fire Barrier Sep.	N/A	1-HR.	1-HR.	DTL. # 4 / F82	U-305		
Party/Fire Wall Sep.	N/A	2-HR.	2-HR.	DTL. # 5 / F83 ; DTL. # 3 / F81	U-821 / U-822		
Smoke Barrier Sep.	N/A	1-HR.	1-HR.	DTL. # 4 / F82	U-305		
Tenant/Dwelling Unit/ Sleeping Unit Seperation	N/A	N/A	N/A	N/A	N/A		
Incidental Use Sep.	N/A	1-HR.	1-HR.	DTL. # 4 / F82	U-305		

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPERATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (Table 705.8)	ALLOWABLE AREA (PERCENT)	ACTUAL SHOWN ON PLANS (PERCENT)
GREATER THAN 30 FEET	UP, 8	UNLIMITED	N/A

ALL WINDOWS GREATER THAN 30 FEET TO REAL AND ASSUMED PROPERTY LINES

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ No ☒ Yes
Exit Signs: ☐ No ☒ Yes
Fire Alarm: ☐ No ☒ Yes
Smoke Detection Systems: ☐ No ☒ Yes ☐ Partial _____
Panic Hardware: ☐ No ☒ Yes

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET NO. SHEET L8-1 AND L8-2

☒ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assume 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 calculations (Table 1004.1.2)
☒ 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 exit widths for each door
☒ Maximum calculated occupant load capacity each exit door can accomodate based on egress width (1005.3)
☒ Actual occupant load for each exit door
☐ A seperate schematic plan indicating where fire rated floor / ceiling and/or roof structure is provided for puposes of occupancy seperation.
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and 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)

TOTAL UNITS	ACCESSIBLE UNITS REQ.	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQ.	TYPE A UNITS PROVIDED	TYPE B UNITS REQ.	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
100	50	100	0	0	50	100	100

ALL UNITS ARE COMPLETELY ACCESSIBLE.

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL NO. OF PARKING SPACES (REGULAR – NON–H/C)		NO. OF ACCESSIBLE SPACES PROVIDED			TOTAL ACCESS. PROVIDED
	REQUIRED	PROVIDED	REGULAR W/ 9' ACCESS AISLE	VAN SPACES WITH 132" AISLE	VAN SPACES WITH 8' ACCESS AISLE	
FACILITY SPACES	65	112	8			8
TOTAL	65	112				8

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE		WATER CLOSETS MALE	WATER CLOSETS FEMALE	URINALS	LAVATORIES MALE	LAVATORIES FEMALE	SHOWERS/ TUBS	DRINKING FOUNTAINS REG.	DRINKING FOUNTAINS ACCESS.
SPACE	EXISTING	N/A	N/A	N/A	N/A	N/A		N/A	N/A
	NEW	7	7	0	7	7		1	1
	REQUIRED	2	2	0	2	2		1	1

SPECIAL APPROVALS

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

DHSR CONSTRUCTION SECTION

ENERGY SUMMARY:

ENERGY REQUIRMENTS:

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: ☐ No ☐ Yes (provide code or statutory reference): _____

Exempt Building: ☐ No ☐ Yes (provide code or statutory reference): _____

Climate Zone: ☐ 3A ☒ 4A ☐ 5A

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: G.W.B., WOOD TRUSSES, DECKING, SHINGLES
U–Value of total assembly: .021
R–Value of insulation: 49
Skylights in each assembly: NOT APPLICABLE
U–Value of skylight: N/A
total square footage of skylights in each assembly: 0

Exterior Walls (each assembly) FACE BRICK / HARDIE-BOARD, SYNTHETIC STONE VENEER, WOOD STUDS, G.W.B. INT. SIDE / O.S.B. EXT. SIDE
Description of assembly: _____
U–Value of total assembly: .051
R–Value of insulation: 19
Openings (windows or doors w/ glazing)
U–Value of assembly: .38
Solar heat gain coefficient: .25
projection factor: N/A
Door R–Values: 2.1

Walls below grade (each assembly) NOT APPLICABLE
Description of assembly: _____
U–Value of total assembly: _____
R–Value of insulation: _____

Floors over unconditioned space (each assembly) NOT APPLICABLE
Description of assembly: _____
U–Value of total assembly: _____
R–Value of insulation: _____

Floors – slab on grade
Description of assembly: CONC. SLAB ON GRADE
U–Value of total assembly: N/A
R–Value of insulation: 15
Horizontal/Vertical Requirment: 24' HORIZONTAL, 16' VERTICAL
Slab Heated: _____

STRUCTURAL DESIGN DATA SHEET (ASCE 7-10):

RISK CATEGORY III (ASCE 7-10)
OCCUPANCY CLASSIFICATION INSTITUTIONAL GROUP I-2 (2015 IBC)
IMPORTANCE FACTORS:
I seismic 1.25
I snow 1.10
LIVE LOADS:
ROOF 20 psf
CATWALK 40 psf
FLOOR 100 psf
SNOW LOAD:
Pg 10 psf
WIND LOAD:
Basic Wind Speed 120 MPH
Exposure Category C
Wind Base Shear (MWFRS)
Vx 91.2 K
Vy 18.9 K
SEISMIC LOAD:
Spectral Response
S_s 0.180
S_1 0.084
S_{ds} 0.192
S_{d1} 0.135
Seismic Design Category C
Seismic Site Class D (Default)
Structural System Light framed walls sheathed w/ structural panels
R-Factor 6.5
Analysis Procedure Equivalent Lateral Force
Seismic Base Shear
Vx 42.7 K
Vy 42.7 K
SEISMIC ANCHORAGE OF NON-STRUCTURAL COMPONENTS:
Per ASCE 7 Chapter 13 all non-structural components are required to be braced against seismic sway.
LATERAL DESIGN CONTROL:
X-Direction Wind
Y-Direction Wind
SOIL BEARING PROPERTIES:
Allowable Bearing Capacity 2000 psf (Presumptive)

SEE MECHANICAL DRAWINGS FOR MECHANICAL METHOD OF COMPLIANCE BUILDING DATA

SEE ELECTRICAL DRAWINGS FOR ELECTRICAL METHOD OF COMPLIANCE BUILDING DATA

DAVID R. POLSTON
REGISTERED ARCHITECT
3275
NORTH CAROLINA
WILMINGTON, N.C.
9-26-2016

PRUITTHEALTH
FORSYTH COUNTY, L.L.C.
Winston–Salem, North Carolina

David R. Polston - Architect
3806 Park Ave. Suite 2–L, Wilmington, NC 28403
Architecture Planning Design

100 BED FACILITY
REV. 09-19-2016 PER CITY OF WINSTON-SALEM REVIEW

T 2

NORTH CAROLINA BUILDING CODE SUMMARY

EXTERIOR STORAGE BUILDING

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

Name of Project: PRUITTHEALTH - FORSYTH COUNTY, L.L.C. - STORAGE BUILDING FOR 100 BED NURSING FACILITY

Address: 3860 ADVANTAGE WAY - WINSTON-SALEM, NORTH CAROLINA Zip Code: 27101

Owner/Authorized Agent: NICOLE FRAZIER Phone 678-533-6710 E-mail nfrazier@pruitthealth.com

Owned By: ☐ City/County ☒ Private ☐ State

Code Enforcement Jurisdiction: ☒ City WINSTON-SALEM ☐ County _____ ☐ State

DESIGNER OF RECORD:

LEAD DESIGN PROFESSIONAL: DAVID R. POLSTON, ARCHITECT

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	DAVID R. POLSTON, ARCH.	DAVID R. POLSTON	3275	(910) 350-9900	polstonaia@bellsouth.net
Civil	CURRY ENGINEERING	JARED MATTHEWS	C-48484	(919) 552-2849	jared@curryeng.com
Electrical	CBHF ENGINEERS, PLLC	R. DUNCAN MCFADYEN	8433	(910) 791-4000	dmcfadyen@cbhfengineers.com
Fire Alarm	CBHF ENGINEERS, PLLC	R. DUNCAN MCFADYEN	8433	(910) 791-4000	dmcfadyen@cbhfengineers.com
Plumbing	CBHF ENGINEERS, PLLC	JAMES R. BENSON	16592	(910) 791-4000	jbenson@cbhfengineers.com
Mechanical	CBHF ENGINEERS, PLLC	JAMES R. BENSON	16592	(910) 791-4000	jbenson@cbhfengineers.com
Sprinkler-Standpipe	N/A	N/A	N/A	N/A	N/A
Structural	HAUSER-CREECH	THEODORE A. DETERS	E-48492	(919) 871-1919	ted@hauser-creech.com
Retaining Walls > 5' High					
Other					

2018 EDITION OF NC 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: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alteration: ☐ Level 1 ☐ Level 2 ☐ Level 3
☐ Historic Property ☐ Change of Use

CONSTRUCTED: (date) _____ CURRENT OCCUPANCY(S) (CH.3) _____
RENOVATED: (date) _____ PROPOSED OCCUPANCY(S) (CH.3) _____
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 ☒ V-B
Sprinklers: ☒ No ☐ Partial ☐ Yes ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 13D
Standpipes: ☒ No ☐ Yes Class ☐ I ☐ II ☐ III ☐ Wet ☐ Dry
Fire District: ☒ No ☐ Yes (Primary) Flood Hazard Area: ☒ No ☐ Yes
Special Inspections Required: ☒ No ☐ Yes

Gross Building Area Table:

FLOOR:	EXISTING (SQFT.)	NEW (SQFT.)	SUB-TOTAL
3rd Floor			
2nd Floor			
1st. Floor		889 S.F.	
Mezanine			
Basement			
Total		889 S.F.	

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 ☐ I-1 Condition ☐ 1 ☐ 2
☐ I-2 Condition ☐ 1 ☐ 2
☐ I-3 Condition ☐ 1 ☐ 2 ☐ 3 ☐ 4
☐ I-4
Mercantile ☐
Residential ☐ R-1 ☐ R-2 ☐ R-3 ☐ R-4
Storage ☐ S-1 Moderate ☒ S-2 Low ☐ S-3 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 Selections): _____

Special Provisions (Chapter 5 – List Code Selections: N/A

Mixed Occupancy: ☒ No ☐ Yes Seperation ____ 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.

☐ Seperated Use (508.4) – See below for area calcs.
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.

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

$$\frac{\quad}{\quad} + \frac{\quad}{\quad} + \ldots\ldots^{m} \frac{\quad}{\quad} \leq 1.00$$

STORY NO.	DESCR. AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2 AREA [4]	(C) AREA FOR FRONTAGE INCREASE [1,5]	(D) ALLOWABLE AREA PER STORY OR UNLIMITED [2,3]
1	S-2	889 S.F.	13,500 S.F.	NOT USED	13,500 S.F.

[1] Open space area increases from Section 506.2 are computed thus:
a. Perimeter which fronts a puplic 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] x W/30 = _____ (%)

[2] The sprinkler increase per Section 506.3 is as follows:
a. Multi-story building I_s = 200 percent
b. Single story building I_s = 300 percent

[3] Unlimited area applicable under conditions of Sections 507.

[4] Maximum Building Area = total number of stories in the building x E (506.4).

[5] The maximum area of parking garages must comply with 406.3.5. The maximum area of air traffic control towers must comply with 412.1.2.

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET (Table 504.3)	40'	20'	TABLE 504.3
BUILDING HEIGHT IN STORIES (Table 504.4)	1 STORY	1 STORY	TABLE 504.4

FIRE PROTECTION REQUIREMENTS

LIFE SAFETY PLAN SHEET NO., IF PROVIDED _____

BUILDING ELEMENT	FIRE SEPERATION DISTANCE (FEET)	RATING REQ'D.	RATING PROVIDED * (W/ REDUCTION)	DETAIL NO. AND SHEET NO.	DESIGN NO. FOR RATED ASSEMBLY	DESIGN NO. FOR RATED PENETRATION	DESIGN NO. FOR RATED JOINTS
Structural frame, including columns, girders, and trusses							
Bearing walls							
Exterior	> 30'	Ø	Ø	* 36Ø5 / A-36	N/A		
North	> 30'	Ø	Ø	* 36Ø5 / A-36	N/A		
East	> 30'	Ø	Ø	* 36Ø5 / A-36	N/A		
West	> 30'	Ø	Ø	* 36Ø5 / A-36	N/A		
South	> 30'	Ø	Ø	* 36Ø5 / A-36	N/A		
Interior	N/A	Ø	Ø	N/A	N/A		
Nonbearing walls and partitions Exterior walls							
North	N/A	Ø	Ø	* 36Ø5 / A-36	N/A		
East	N/A	Ø	Ø	* 36Ø5 / A-36	N/A		
West	N/A	Ø	Ø	* 36Ø5 / A-36	N/A		
South	N/A	Ø	Ø	* 36Ø5 / A-36	N/A		
Interior walls	N/A	Ø	Ø	* 36Ø6 / A-36	N/A		
Floor construction including supporting beams and joists							
Floor Ceiling Assembly	N/A	Ø	Ø	* 36Ø5 / A-36	SLAB ON GRADE		
Column Supporting Floor	N/A	N/A	N/A	N/A	N/A		
Roof construction including supporting beams and joists							
Roof Ceiling Assembly	N/A	Ø	Ø	N/A	N/A		
Column Supporting Roof	N/A	N/A	N/A	N/A	N/A		
Shafts – Exit	N/A	N/A	N/A	N/A	N/A		
Shafts – Other	N/A	N/A	N/A	N/A	N/A		
Corridor Seperation	N/A	N/A	N/A	N/A	N/A		
Occup./Fire Barrier Sep.	N/A	N/A	N/A	N/A	N/A		
Party/Fire Wall Sep.	N/A	N/A	N/A	N/A	N/A		
Smoke Barrier Sep.	N/A	N/A	N/A	N/A	N/A		
Tenant/Dwelling Unit/ Sleeping Unit Seperation	N/A	N/A	N/A	N/A	N/A		
Incidental Use Sep.	N/A	N/A	N/A	N/A	N/A		

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPERATION DISTANCE (FEET) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (Table 705.8)	ALLOWABLE AREA (PERCENT)	ACTUAL SHOWN ON PLANS (PERCENT)
GREATER THAN 30 FEET	UP, NS	UNLIMITED	N/A

ALL WINDOWS GREATER THAN 30 FEET TO REAL AND ASSUMED PROPERTY LINES

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☒ No ☐ Yes
Exit Signs: ☒ No ☐ Yes
Fire Alarm: ☒ No ☐ Yes
Smoke Detection Systems: ☒ No ☐ Yes ☐ Partial _____
Panic Hardware: ☒ No ☐ Yes

LIFE SAFETY PLAN REQUIREMENTS

LIFE SAFETY PLAN SHEET NO. _____

☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assume 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 calculations (Table 1004.1.2)
☐ 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 exit widths for each door
☐ Maximum calculated occupant load capacity each exit door can accomodate based on egress width (1005.3)
☐ Actual occupant load for each exit door
☐ A seperate schematic plan indicating where fire rated floor / ceiling and/or roof structure is provided for puposes of occupancy seperation.
☐ Location of doors with panic hardware (1010.1.10)
☐ Location of doors with delayed egress locks and 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)

TOTAL UNITS	ACCESSIBLE UNITS REQ.	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQ.	TYPE A UNITS PROVIDED	TYPE B UNITS REQ.	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED

NOT APPLICABLE

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL NO. OF PARKING SPACES (REGULAR – NON-H/C)		NO. OF ACCESSIBLE SPACES PROVIDED			TOTAL ACCESS. PROVIDED
	REQUIRED	PROVIDED	REGULAR W/ 5' ACCESS AISLE	VAN SPACES WITH 132" AISLE	VAN SPACES WITH 8' ACCESS AISLE	
FACILITY SPACES	SEE SHEET T-2 FOR FACILITY PARKING					
TOTAL						

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

	USE	WATER CLOSETS		URINALS	LAVATORIES		SHOWERS/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE		MALE	FEMALE		REG.	ACCESS.
SPACE	EXISTING	N/A	N/A	N/A	N/A	N/A		N/A	N/A
	NEW	N/A	N/A	N/A	N/A	N/A		N/A	N/A
	REQUIRED	N/A	N/A	N/A	N/A	N/A		N/A	N/A

SPECIAL APPROVALS

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

ENERGY SUMMARY:

ENERGY REQUIRMENTS:

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: ☐ No ☐ Yes (provide code or statutory reference): _____

Exempt Building: ☐ No ☐ Yes (provide code or statutory reference): _____

Climate Zone: ☐ 3A ☒ 4A ☐ 5A

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: GWB, WOOD TRUSSES, DECKING, SHINGLES
U-Value of total assembly: .021
R-Value of insulation: 45
Skylights in each assembly: NOT APPLICABLE
U-Value of skylight: N/A
total square footage of skylights in each assembly: 0

Exterior Walls (each assembly) HARDIE-BOARD SIDING, WOOD STUDS,
Description of assembly: GWB. INT. SIDE / OSB. EXT. SIDE
U-Value of total assembly: .051
R-Value of Insulation: 19
Openings (windows or doors w/ glazing)
U-Value of assembly: .38
Solar heat gain coefficient: .25
projection factor: N/A
Door R-Values: 2.1

Walls below grade (each assembly) NOT APPLICABLE
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly) NOT APPLICABLE
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors – slab on grade
Description of assembly: CONC. SLAB ON GRADE
U-Value of total assembly: N/A
R-Value of insulation: 15
Horizontal/Vertical Requirment: 24" HORIZONTAL, 16" VERTICAL
Slab Heated: _____

STRUCTURAL DESIGN DATA SHEET (ASCE 7-10):

RISK CATEGORY III (ASCE 7-10)

OCCUPANCY CLASSIFICATION INSTITUTIONAL GROUP I-2 (2015 IBC)

IMPORTANCE FACTORS:
I seismic 1.25
I snow 1.10

LIVE LOADS:
ROOF 20 psf
CATWALK 40 psf
FLOOR 100 psf

SNOW LOAD:
Pg 10 psf

WIND LOAD:
Basic Wind Speed 120 MPH
Exposure Category C
Wind Base Shear (MWFRS)
Vx 91.2 K
Vy 118.9 K

SEISMIC LOAD:
Spectral Response
Ss 0.180
S1 0.084
Sds 0.192
Sd1 0.135
Seismic Design Category C
Seismic Site Class D (Default)
Structural System Light framed walls sheathed w/ structural panels
R-Factor 6.5
Analysis Procedure Equivalent Lateral Force
Seismic Base Shear
Vx 42.7 K
Vy 42.7 K

SEISMIC ANCHORAGE OF NON-STRUCTURAL COMPONENTS:
Per ASCE 7 Chapter 13 all non-structural components are required to be braced against seismic sway.

LATERAL DESIGN CONTROL:
X-Direction Wind
Y-Direction Wind

SOIL BEARING PROPERTIES:
Allowable Bearing Capacity 2000 psf (Presumptive)

SEE MECHANICAL DRAWINGS FOR MECHANICAL METHOD OF COMPLIANCE BUILDING DATA

SEE ELECTRICAL DRAWINGS FOR ELECTRICAL METHOD OF COMPLIANCE BUILDING DATA

DAVID R. POLSTON REGISTERED ARCHITECT 3275 NORTH CAROLINA WILMINGTON, N.C.
7-15-2018

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100 BED FACILITY

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