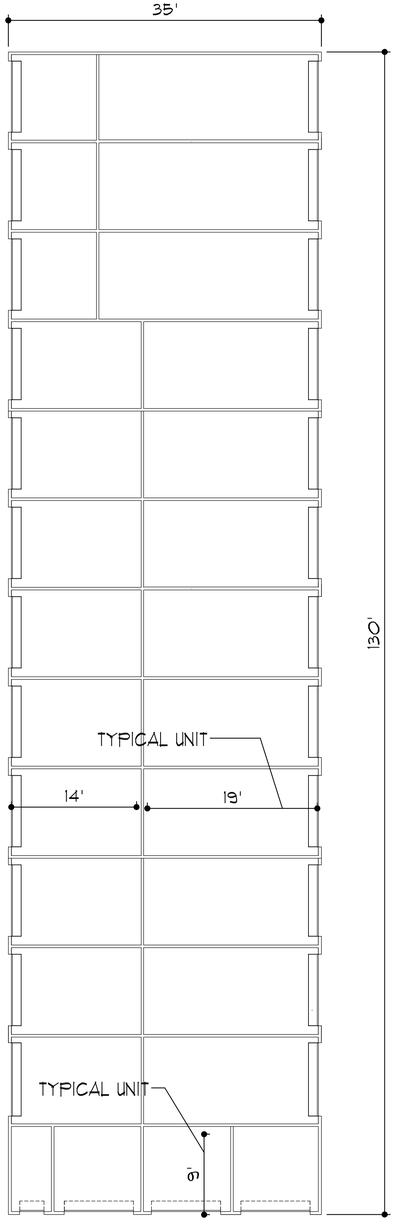
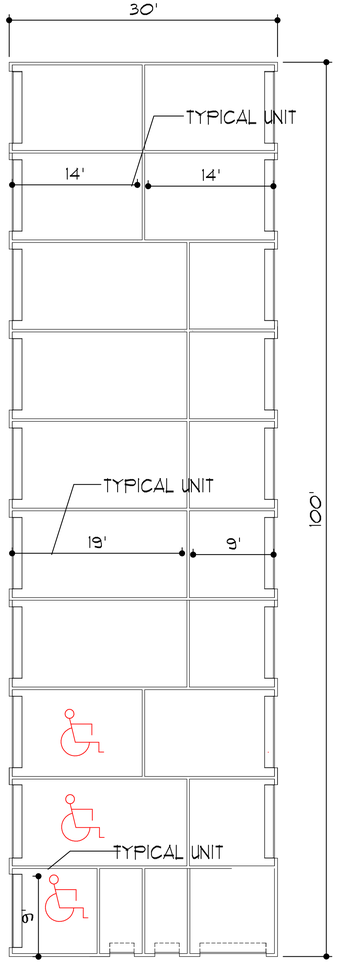
NEW STORAGE FACILITY FOR
STORE-IT-SAFE SELF STORAGE
MOULTON SPRING ROAD, ERWIN,, NC



Bldg. 2

OCCUPANCY
STORAGE
Bldg 1 = 3,000 SF / 500 = 6
9.1



Bldg. 1

LIFE SAFETY & OCCUPANCY PLAN
1/16" = 1'-0"

APPENDIX "B" BUILDING CODE SUMMARY

Name of project: BLDG. "1" NEW FACILITY FOR SOUTH POINT SELF STORAGE
Address: MOULTON SPRING ROAD, ERWIN, NC Zip Code
Owner or Authorized Agent: VIC SMITH Phone: 336-855-1286 E-mail: erskinesmith@bellsouth.net
Owned By: ☐ City/County ■ Private ☐ State
Code Enforcement Jurisdiction: ☐ City ■ County HARNETT

CONTACT: Victor J. Smith

DESIGNER	FIRM	NAME	LICENSE NO.	TELEPHONE NO.	E-MAIL ADDRESS
Architectural	ERSKINE-SMITH Architecture, PLLC	Victor J. Smith	6687	336-855-1286	erskinesmith@bellsouth.net
Civil					
Electrical	EUBANKS HUMPHERY ENGINEERING PC	BRYAN E. HUMPHERY	032588	336-379-0663	behumphrey@bellsouth.net
Fire Alarm					
Plumbing	EUBANKS HUMPHERY ENGINEERING PC	BRYAN E. HUMPHERY	032588	336-379-0663	behumphrey@bellsouth.net
Mechanical	EUBANKS HUMPHERY ENGINEERING PC	BRYAN E. HUMPHERY	032588	336-379-0663	behumphrey@bellsouth.net
Sprinkler-Standpipe					
Structural					
Retaining Walls >5' High					
Other					

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: EXISTING: ☐ Prescriptive ☐ Repair ☐ Chapter 14
Alterations ☐ Level I ☐ Level II ☐ Level III
☐ Historic Property ☐ Change of Use

CONSTRUCTION (date) _____ **ORIGINAL OCCUPANCY (Ch. 3):** _____
RENOVATED: (date) _____ **PROPOSED OCCUPANCY (Ch. 3):** S-1 STORAGE

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 Flood Hazard Area: ■ No ☐ Yes
Special Inspections Required: ■ NO ☐ YES (Contact the local inspections jurisdiction for additional procedures and requirements)
Manual Fire Alarm System with Notification: ■ No ☐ Yes

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	SUB-TOTAL
4th Floor			
3rd Floor			
2nd Floor			
Mezzanine		Bldg 1	Bldg 1
1st Floor		3,000 sf	4,350 sf
Basement			
TOTAL		3,000 sf	4,350 sf

Primary Occupancy Classification(s): **ALLOWABLE AREA**
Assembly ☐ A-1 ☐ A-2 ☐ A-3 ☐ A-4 ☐ A-5
Business ☐
Educational ☐
Factory ☐ F-1 Moderate ☐ F-2 Low
High Hazard ☐ 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 ☐ 5
☐ I-4
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): NA
Incidental Uses (Table 509): NA
Special Uses (Chapter 4 - List Code Sections): NA
Special Provisions: (Chapter 5 - List Code Sections) NA

Mixed Occupancy: ■ No ☐ Yes Separation: 0 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 Mixed Occupancy (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 allowable floor area for each use shall not exceed 1.

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

$$\_\_\_ + \_\_\_ + \text{-- -} + \_\_\_ \leq 100$$

STORY NO.	DESCRIPTION AND USE	(A) BLDG. AREA PER STORY (ACTUAL)	(B) TABLE 506.2* AREA	(C) AREA FOR FRONTAGE INCREASE 1,2	(D) ALLOWABLE AREA PER STORY OR UNLIMITED 2,3
1 (Bldg 1)	S-1 STORAGE	3,000 SF	17,500 SF		17,500 SF
1 (Bldg 2)	S-1 STORAGE	4,350 SF	17,500 SF		17,500 SF

(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 = _____ (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 If + 100 (F/P - 0.25) x W/30 = _____ %
(2) Unlimited area applicable under conditions of Sections 507
(3) Maximum Building Area = total number of stories in the building x D (506.2)
(4) The maximum area of open parking garages must comply with 406.3.4. The maximum area of air traffic control towers must comply with 412.3.1.
(5) Frontage increase is based on the unsprinklered area value in table 506.2

ALLOWABLE HEIGHT

	Allowable	Shown on plans	Code Reference
Building Height in Feet (Table 504.3	55 FT.	11'	
Building Height in Stories (Table 504.4)	2	1	

Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4.

NS = BUILDING NOT EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	RATING REQ'D	RATING PROVIDED (or REDUCTION)*	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Framing, including columns, girders, trusses		0					
Bearing walls							
Exterior							
NORTH	12.5'	0					
WEST (ASSUMED PROPERTY LINE)	16'	0					
SOUTH (ASSUMED PROPERTY LINE)	12.5'	0					
EAST	15'	0					
Interior		0					
Nonbearing walls and partitions							
Exterior walls							
NORTH	N/A	0					
WEST (ASSUMED PROPERTY LINE)	N/A	0					
SOUTH (ASSUMED PROPERTY LINE)	N/A	0					
EAST	N/A	0					
Interior walls & partitions		0					
Floor construction including supporting beams and joists		0					
Floor Ceiling Assembly		0					
Column Supporting Roof		0					
Roof construction including supporting beams and joists		0					
Floor Ceiling Assembly		0					
Column Supporting Roof		N/A					
Shafts Enclosures - Exit		N/A					
Shafts Enclosures - Others		N/A					
Corridor Separation		N/A					
Occupancy/Fire Barrier Separation		N/A					
Party/Fire Wall Separation		N/A					
Smoke Barrier Separation		N/A					
Tenant / Dwelling Unit/ Sleeping Unit Separation		N/A					
Incidental Use Separation		N/A					

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENINGS CALCULATIONS

Fire Separation Distance (Feet) from Property Line	Degree of Opening Protection (Table 705.8)	Allowable Area (%)	Actual Shown on Plan (%)
NORTH 25' ASSUMED PROPERTY LINE	UNPROTECTED, NON-SPRINKLERED	45%	0
WEST 235' ASSUMED PROPERTY LINE	UNPROTECTED, NON-SPRINKLERED	NO LIMIT	0
SOUTH 80' ASSUMED PROPERTY LINE	UNPROTECTED, NON-SPRINKLERED	NO LIMIT	0
EAST 25' ASSUMED PROPERTY LINE	UNPROTECTED, NON-SPRINKLERED	45%	0

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet # COVER SHEET
☐ Fire and/or smoke rated wall locations (Chapter 7)
☐ Assumed and real property line locations (if not on 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 occupancy load calculation (Table 1004.1.2)
■ Occupant loads for each area
☐ Exit access travel distance (1017)
■ Common path of travel distance (Table 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 for 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 REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE 'A' UNITS REQUIRED	TYPE 'A' UNITS PROVIDED	TYPE 'B' UNITS REQUIRED	TYPE 'B' UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
			N/A				

ACCESSIBLE PARKING (Section 1106)

LOT OR PARKING AREAS	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL NO. ACCESSIBLE
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	VAN SPACES WIDTH 132" ACCESS AISLE	VAN SPACES WIDTH 8' ACCESS AISLE	PROVIDED
TOTAL	SEE SITE PLAN					

PLUMBING FIXTURE REQUIREMENTS (Table 2902.1)

USE		WATER CLOSETS			URINALS	LAVATORIES			SHOWERS/ TUBS	DRINKING FOUNTAINS	
		MALE	FEMALE	UNISEX		MALE	FEMALE	UNISEX		REGULAR	ACCESSIBLE
OUTSIDE	EXISTING										
	NEW										
INSIDE	EXISTING										
	NEW	N/A									
TOTAL	REQUIRED										
	PROVIDED										

SPECIAL APPROVALS

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

ENERGY REQUIREMENTS :

The following data shall be considered minimum and any special attributes required to meet the energy code shall also be provided. Each Designer shall furnish the furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost standard reference design vs annual energy cost for the proposed design.

Climate Zone ■ 3 ☐ 4 ☐ 5

Method of Compliance
☐ Prescriptive (Energy Code)
☐ Performance (Energy Code)
☐ Prescriptive (ASHRAE 90.1)
☐ Performance (ASHRAE 90.1)

THERMAL ENVELOPE

Roof/ceiling Assembly (each assembly)
Description of assembly _____
U-value of total assembly _____
R-value of insulation _____
Skylights in each assembly _____
U-value of skylights _____
total square footage of skylights in each assembly _____

Exterior Walls (each assembly)
Description of assembly _____
U-value of total assembly _____
R-value of insulation _____
Openings (window to wall ratio) (with glazing) _____
U-value of assembly _____
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 _____

Floors slab on grade
Description of assembly _____
U-value of total assembly _____
R-value of insulation _____
Horizontal/vertical requirement _____
slab heated

NOT REQUIRED PER 2012 NC-EEC

ACCESSIBLE UNIT CALCULATIONS
ALL ACCESSIBLE UNITS LOCATED IN BLDG. 10

CODE REQUIREMENTS	PERCENTAGE	# OF UNITS	# OF ADA UNITS REQ.
5% OF THE FIRST 200 UNITS	5%	50	3
2% OF REMAINING UNITS	2%	0	0
TOTAL		50	3

NOTE: ALL ACCESSIBLE STORAGE UNITS DOORS SHALL HAVE A MAX. 5 LB. PULL

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VICTOR J. SMITH — REGISTERED ARCHITECT — 6687 — 06-08-2024 — NORTH CAROLINA — GREENSBORO, NC
ERSKINE-SMITH ARCHITECTURE PLLC — REGISTERED ARCHITECTURAL COMPANY — 51579 — NORTH CAROLINA — GREENSBORO, NC

NEW STORAGE FACILITY FOR
STORE-IT-SAFE SELF STORAGE
MOULTON SPRING ROAD, ERWIN, HARNETT CO., NC

REVISIONS	BY

DRAWN BY : VJS
CHECKED BY : RHE
DATE : 06-08-2024
SCALE : 1/16" = 1'-0"
FILE :

SHEET NUMBER :
COVER
BLDG. 7