

NORTH CAROLINA BUILDING CODE SUMMARY - NC 2018 EXISTING BUILDING CODE

NAME OF PROJECT: Easy Storage
 PROJECT ADDRESS: 107 Alfreda Dr. Cameron, NC
 OWNER / CONTACT: Alex Parham
 PHONE #: 910-486-5120
 EMAIL: alex.parham@medbcinc.com
 OWNED BY: PRIVATELY CITY/COUNTY STATE
 CODE ENFORCEMENT: CITY COUNTY CITY/COUNTY

PROJECT SUMMARY
 CONTACT: Alex R. Parham
 DESIGNER FIRM NAME LICENSE # TELEPHONE #
 ARCHITECTURAL -- -- -- --
 CIVIL -- -- -- --
 ELECTRICAL -- -- -- --
 FIRE ALARM -- -- -- --
 PLUMBING -- -- -- --
 MECHANICAL -- -- -- --
 SPRINKLER -- -- -- --
 STRUCTURAL -- -- -- --
 RETAINING WALL -- -- -- --
 OTHER -- -- -- --

BUILDING CODE DATA
 2018 NC BUILDING CODE: NEW BUILDING ADDITION RENOVATION
 FIRST TIME INTERIOR COMPLETION
 SHELL / CORE - CONTACT THE LOCAL INSPECTION INSPECTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
 PHASED CONSTRUCTION - SHELL/CORE - CONTACT THE LOCAL INSPECTION JURISDICTION AND REQUIREMENTS
 2018 NC EXISTING BUILDING CODE: EXISTING: PRESCRIPTIVE REPAIR CHAPTER 14
 ALTERATION: LEVEL I LEVEL II LEVEL III
 HISTORIC PROPERTY CHANGE OF USE
 CONSTRUCTED: (date) N/A CURRENT OCCUPANCY: N/A
 RENOVATED: (date) N/A PROPOSED OCCUPANCY: STORAGE, S-2
 RISK CATEGORY: (Table 1604.5) CURRENT: I II III IV V
 PROPOSED: I II III IV V

BASIC BUILDING DATA
 CONSTRUCTION TYPE: I-A II-A III-A IV-A V-A
 I-B II-B III-B IV-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 DISTRICT: NO YES
 BUILDING HEIGHT: 9'-6" FEET NUMBER OF STORIES UNLIMITED PER _____
 MEZZANINE: NO YES
 HIGH RISE: NO YES CENTRAL REFERENCE SHEET # (IF PROVIDED) _____
 FLOOD HAZARD: NO YES
 SPECIAL INSPECTION REQUIRED: NO YES CONTACT THE LOCAL INSPECTION JURISDICTION FOR POSSIBLE ADDITIONAL PROCEDURES AND REQUIREMENTS
 GROSS BUILDING AREA: STORAGE AREA TOTAL BLDG AREA
 FLOOR _____
 1st FLOOR 4,000.0 4,000.0
 TOTAL 4,000.0

ALLOWABLE AREA
 PRIMARY OCCUPANCY:
 ASSEMBLY A-1 A-2 A-3 A-4 A-5
 BUSINESS
 EDUCATIONAL
 FACTORY F-1 MODERATE F-2 LOW
 HAZARD H-1 DETONATE H-2 DEFLAGRATE H-3 COMBUST H-4 HEALTH H-5 HPM
 INSTITUTIONAL I-1 CONDITION I 2 I-2 CONDITION I 2 I-3 CONDITION I 2 I 3 I 4 I 5
 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: N / A
 INCIDENTAL USES (Table 509): N / A
 SPECIAL USES (CHAPTER 4 - LIST CODE SECTIONS):
 SPECIAL PROVISIONS (CHAPTER 5 - LIST CODE SECTIONS):

MIXED OCCUPANCY: NO YES SEPARATION: _____ HR. EXCEPTION: _____
 NON-SEPARATED MIXED OCCUPANCY (508.3 EXCEPTION)
 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 the allowable floor area for each use shall not exceed 1.
 ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B
 ALLOWABLE AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY B ≤ 1

STORY NO.	DESCRIPTION AND USE	(A) BLDG AREA PER STORY (ACTUAL)	(B) BLDG AREA 506 ²	(C) AREA FOR INCREASE ¹	(D) AREA FOR INCREASE ²	(E) ALLOWABLE UNLIMITED ³	(F) MAXIMUM BUILDING AREA ⁴
ONE (1)	STORAGE, S-2	4000	9500	0	-	-	9500

1 - FRONTAGE AREA INCREASES FROM SECTION 506.2
 2 - UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTION 107
 3 - MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES 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 UNSPRINKLERED AREA VALUE IN TABLE 506.2

ALLOWABLE HEIGHT

	ALLOWABLE	SHOWN ON PLANS	CODE REFERENCE
BUILDING HEIGHT IN FEET 9 (TABLE 504.3)	5'-0"	9'-6"	N/A
BUILDING HEIGHT IN STORIES (TABLE 504.1)	2	1	N/A

1 - PROVIDE CODE REFERENCE IF THE "SHOWN ON PLANS" QUANTITY IS NOT BASED ON TABLE 504.3 OR 504.4

FIRE RESISTANCE RATINGS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W/ REDUCTION)	DETAIL AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
STRUCTURAL FRAME, INCLUDING COLUMNS, GIRDERS, TRUSSES							
BEARING WALLS							
EXTERIOR							
NORTH	30' ±	0					
EAST	30' ±	0					
WEST	30' ±	0					
SOUTH	30' ±	0					
INTERIOR	N / A	0					
NONBEARING WALLS AND PARTITIONS							
EXTERIOR							
NORTH		0					
EAST		0					
WEST		0					
SOUTH		0					
INTERIOR		0					
FLOOR CONSTRUCTION INCLUDING SUPPORTING BEAMS AND JOISTS			0 0				
FLOOR CEILING ASSEMBLY			0				
COLUMNS SUPPORTING FLOORS			0				
ROOF CEILING ASSEMBLY INCLUDING SUPPORTING BEAMS AND JOISTS							
ROOF CEILING ASSEMBLY COLUMNS SUPPORTING ROOF			0 0				
SHAFT ENCLOSURES - EXIT			0 0				
SHAFT ENCLOSURES - OTHER			0 0				
CORRIDOR SEPARATION			0 0				
OCCUPANCY / FIRE BARRIER SEPARATION			0 0				
PARTY / FIRE WALL SEPARATION			0 0				
SMOKE BARRIER SEPARATION			0 0				
SMOKE PARTITION			0 0				
TENANT SEPARATION			0 0				
INCIDENTAL USE SEPARATION			0 0				

* INDICATE SECTION NUMBER PERMITTING REDUCTION

PERCENTAGE OF WALL OPENINGS CALCULATIONS

WALL	FIRE SEPARATION DISTANCE FROM PROPERTY LINES (FEET)	DEGREE OF OPENINGS PROTECTION TABLE 705.6	PERCENTAGE OF ALLOWABLE AREA	ACTUAL PERCENTAGE OF OPENING ON PLANS
NORTH	N / A	-	UL	UL
SOUTH	N / A	-	UL	UL
EAST	N / A	-	UL	UL
WEST	N / A	-	UL	UL

LIFE SAFETY SYSTEMS
 EMERGENCY LIGHTING: NO YES SMOKE DETECTION SYSTEM: NO YES
 EXIT SIGNS: NO YES PANIC HARDWARE: NO YES
 FIRE ALARM: NO YES (SPRINKLER MONITORING)
 (sprinkler monitoring)
 LIFE SAFETY PLAN N/A
 Check items that are applicable to this project:
 Fire and/or smoke rated wall locations (Chapter 7)
 Assumed and real property line locations
 Exterior wall opening area with respect to distance to assumed property lines (705.6)
 Occupancy types for each area as it relates to occupant load calculations (Table 1004.1.1)
 Occupant loads for each area
 Exit access travel distance (1017)
 Common path of travel distance (1006.2.1 & 1006.3.2(1))
 Dead end lengths (1020.4)
 Clear exit widths for each exit door
 Maximum calculated occupant load capacity at 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 (1010.10)
 Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)
 Location of doors with electromagnetic locks
 Location of doors 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 (407.5)
 Note any code exceptions or table notes that may have been utilized regarding the items above

EXIT REQUIREMENTS

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM ² NUMBER OF EXITS		TRAVEL DISTANCE		ARRANGEMENT MEANS OF EGRESS ^{1,2} (SECTION 1004.1)	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE (TABLE 1004.2.4)	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS	REQUIRED DISTANCE BETWEEN EXIT DOORS	ACTUAL DISTANCE SHOWN ON PLANS
STORAGE	N/A	N/A	N/A	N/A	N/A	N/A

1 Corridor dead ends (Section 1004.3.2.3)
 2 Single exits (Table 1005.2.2)
 3 Common path of travel (Section 1004.2.5)

EXIT WIDTH

USE GROUP OR SPACE DESCRIPTION	(a) AREA ¹ SQ. FT.		(b) AREA ¹ PER OCCUPANT	(c) OCCUPANT CONTENT	EGRESS WIDTH PER OCCUPANT (TABLE 1003.2.3)		REQUIRED WIDTH (SECTION 1003.2.3)		ACTUAL WIDTH SHOWN ON PLANS	
	(a+b)	x c			STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
ASSEMBLY	-	-	0	N/A	-	-	-	-	-	-

TOTAL OCCUPANT CONTENT - 0

ACCESSIBLE DWELLING UNITS (SECTION 1107) N/A

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
-	-	-	-	-	-	-	-

ACCESSIBLE PARKING (SECTION 1108)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES REQUIRED	TOTAL # OF PARKING SPACES PROVIDED	# OF ACCESSIBLE SPACES PROVIDED			TOTAL ACCESSIBLE UNITS PROVIDED
			REGULAR WITH 5' ACCESS AISLE	1.5" ACCESS AISLE	8' ACCESS AISLE	
NEW	0	0	0	-	0	0
TOTAL REQUIRED	0	0	0	-	0	0
TOTAL PROVIDED	0	0	0	-	0	0

PLUMBING FIXTURE REQUIREMENTS

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/TUBS	DRINKING REGULAR	FOUNTAINS ACCESSIBLE	SERVICE SINK
	MALE	FEMALE	UNSEX		MALE	FEMALE	UNSEX				
SPACE	EXIST'G	NEW	REQ'D	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0	0

SPECIAL APPROVALS
 (Describe special approvals from local jurisdictions, County of State Department of Health, NC Department of Insurance, International Code Council, etc.)

ENERGY SUMMARY
 EXISTING BUILDING ENVELOPE COMPLIES WITH CODE: NO YES UNKNOWN
 EXEMPT BUILDING: NO YES (CODE OR STATUTORY REF.)
 CLIMATE ZONE: NO YES (CODE OR STATUTORY REF.)
 METHOD OF COMPLIANCE: ENERGY CODE: PERFORMANCE PRESCRIPTIVE
 ASHRAE 90.1 PERFORMANCE PRESCRIPTIVE
 THERMAL ENVELOPE (PRESCRIPTIVE METHOD ONLY)
 ROOF/CEILING METAL BUILDING
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY: _____
 R-VALUE OF TOTAL ASSEMBLY: _____
 SKYLIGHTS IN EACH ASSEMBLY: _____
 U-VALUE OF SKYLIGHT: _____
 TOTAL SQSF OF SKYLIGHTS IN EACH ASSEMBLY: _____
 SKYLIGHTS IN EACH ASSEMBLY: _____
 EXTERIOR WALLS METAL BUILDING
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY: _____
 SOLAR HEAT GAIN COEFFICIENT: _____
 R-VALUE OF INSULATION: _____
 PROJECTION FACTOR: _____
 DOOR R-VALUE: _____
 INTERIOR WALLS -
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY: _____
 R-VALUE OF INSULATION: _____
 HORIZONTAL/VERTICAL REQUIREMENT: _____
 SLAB HEATED
 OPENINGS
 U-VALUE OF ASSEMBLY: _____
 SOLAR HEAT GAIN COEFFICIENT: _____
 PROJECTION FACTOR: _____
 DOOR R-VALUE: _____
 WALLS BELOW GRADE
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY: _____
 R-VALUE OF INSULATION: _____
 FLOORS OVER UNCONDITIONED SPACE
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY: _____
 R-VALUE OF INSULATION: _____
 FLOOR SLAB ON GRADE
 DESCRIPTION OF ASSEMBLY: _____
 U-VALUE OF TOTAL ASSEMBLY: _____
 R-VALUE OF INSULATION: _____
 HORIZONTAL/VERTICAL REQUIREMENT: _____
 SLAB HEATED

STRUCTURAL DESIGN N/A- SEE PRE-ENGINEERED PLANS
 DESIGN LOADS:
 IMPORTANCE FACTORS: SNOW _____ SEISMIC _____
 LIVE LOADS: ROOF _____ MEZZANINE _____
 GROUND SNOW LOADS: _____ psf
 WIND LOADS: BASIC WIND SPEED _____ mph (ASCE-7) EXPOSURE CATEGORY _____
 SEISMIC DESIGN CATEGORY: A B C D
 PROVIDE THE FOLLOWING DESIGN PARAMETERS:
 RISK CATEGORY (Table 1604.5): 1 2 3 4
 SPECTRAL RESPONSE ACCELERATION: S_m: _____ %g S_{m1}: _____ %g
 SITE CLASSIFICATION: A B C D E F
 DATA SOURCE: FIELD TEST PRESUMPTIVE HISTORICAL DATA
 BASIC STRUCTURAL SYSTEM: BEARING WALL DUAL w/SPECIAL MOMENTFRAME
 BUILDING FRAME DUAL w/ INTERMEDIATE R/C OR SPECIAL STEEL
 MOMENT FRAME INVERTED PENDULUM
 ANALYSIS PROCEDURE: SIMPLIFIED EQUIVALENT LATERAL FORCE
 ARCHITECTURAL, MECHANICAL, COMPONENTS ANCHORED: YES NO
 LATERAL DESIGN CONTROL EARTH QUAKE WIND
 SOIL BEARING CAPACITY:
 FIELD TEST: _____ psf
 PRESUMPTIVE BEARING CAPACITY: _____ psf
 PILE SIZE, TYPE AND CAPACITY: _____

SPECIAL INSPECTIONS CHAPTER 17
 SPECIAL INSPECTIONS SHALL BE CONDUCTED ON ALL PROJECTS THAT FALL WITHIN BUILDING CATEGORIES AND/OR CONTAIN ELEMENTS SUBJECT TO SPECIAL INSPECTIONS AS PRESCRIBED BY REVISED SECTION 1704.
 To schedule the required preconstruction meeting with the City of Raleigh please call 807-5111
 List whom will inspect the required special inspections
 Fabricator of load bearing components - _____
 Concrete, caissons, piles, piers, precast - _____
 Post tension concrete - _____
 Modular construction - _____
 Steel stud connections, welds, bolts, anchors - _____
 Fire spray tests - _____
 Smoke control - _____
 Seismic wind designs, Quality Assurance - _____
 Retaining wall - _____
 Masonry - _____
 Wood - _____
 Alternate Methods - _____
 EFIS - _____
 Other (describe) - _____
 Other (describe) - _____
 Owner or agent - _____

ELECTRICAL SUMMARY N/A- SEE ELECTRICAL PLANS
 ELECTRICAL SYSTEM AND EQUIPMENT
 Method of Compliance: Prescriptive Performance Energy Cost Budget
 * Provide a standard riser diagram which indicates points for check metering.
 * Provide a standard panel schedule description which identifies different end use loads.
 Lighting Schedule
 Lamp type required in fixture _____
 Number of lamps in fixture _____
 Ballast type used in fixture _____
 Number of ballast in fixture _____
 Total wattage per fixture _____
 Total interior wattage specified vs allowed _____
 Total exterior wattage specified vs allowed _____
 Equipment schedules with motors (not used for mechanical systems)
 Motor horsepower _____
 Number of phases _____
 Minimum efficiency _____
 Motor type _____
 # of poles _____

MECHANICAL SUMMARY N/A- SEE MECHANICAL PLANS
 MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
 Method of Compliance: Prescriptive Performance Energy Cost Budget
 THERMAL ZONE
 Exterior design conditions
 Winter dry bulb _____
 Summer dry bulb _____
 Interior design conditions
 Winter dry bulb _____
 Summer dry bulb _____
 Relative humidity _____
 BUILDING HEAT LOAD _____
 BUILDING COOLING LOAD _____
 MECHANICAL SPACING CONDITIONING SYSTEM
 Unitary
 Description of unit _____
 Heating efficiency _____
 Cooling efficiency _____
 Heat output of unit _____
 Cooling output of unit _____
 Boiler
 Total boiler output, if oversized, state reason _____
 Chiller
 Total chiller capacity, if oversized, state reason _____
 LIST EQUIPMENT EFFICIENCIES
 EQUIPMENT SCHEDULES WITH MOTORS (mechanical systems)
 Motor horsepower _____
 Number of phases _____
 Minimum efficiency _____
 Motor type _____
 # of poles _____

SHELL VARIABLE FORM N/A
 Check each applicable line to match scope of work. Edit as necessary to provide clear detail of installation.
 MECHANICAL:
 No work Equipment set _____ with _____ without power Gas line
 Trunk line installed _____ with _____ without outlets Install complete operational system
 Other _____
 PLUMBING:
 No work Install water service and sewer Install complete plumbing system
 Install building drain _____ and _____ or water distribution main _____ with _____ without branches
 Other _____
 SPRINKLER:
 Install complete plumbing system
 BUILDING:
 Install slab _____ partial _____ complete Install interior walls
 Install interior partition _____ partial _____ complete Install ceilings
 Write box (additional interior completion permits are required for Certificate of Occupancy and power)
 Other _____
 ELECTRICAL:
 House panel (CONNECTING TO)
 Demise wall and ceilings only
 Power and lighting circuits to "J" Box
 Install _____ Heat/AC _____ Elevator _____ Generator _____ Parking lot lighting
 Other _____
 Please provide full information on any Alternative Methods and Means incorporated into the design of this project. Provide specific details and incorporate into plan submittal and supporting documents or agreement letters.

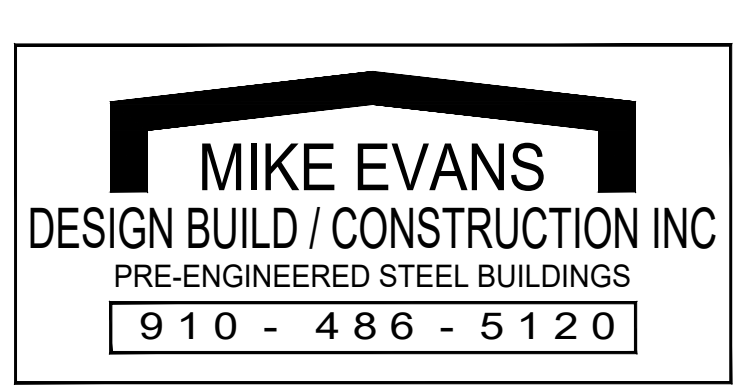
WALL LEGENDS

<input type="checkbox"/> FIRE PARTITIONS 709	<input type="checkbox"/> FIRE WALLS 706	<input type="checkbox"/> FIRE BARRIERS 707
<input type="checkbox"/> SMOKE PARTITIONS 711	<input type="checkbox"/> SMOKE BARRIERS 710	<input type="checkbox"/> SHAFT ENCLOSURE 708

Drawing Name: APPENDIX B
 Project Name: A New Building for Easy Storage
 Project Location: 107 Alfreda Dr Cameron North Carolina

ADDITIONAL LEGAL DISCLAIMER
 THIS DOCUMENT IS INTENDED TO COMPLY WITH THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). ARCHITECTS AND ENGINEERS ARE NOT LICENSED TO INTERPRET LAWS OR GIVE ADVICE CONCERNING LAWS OR LEGAL MATTERS. THE OWNER SHOULD HAVE THIS DOCUMENT REVIEWED BY HIS ATTORNEY TO DETERMINE IF IT COMPLIES TO ADA AND OTHER LAWS.
 PROJECT NO: 080122
 SHEET NO: _____
 DRAWN BY: ARP
 DATE: 02.26.24
 REVISIONS: _____
 COV2

PRELIMINARY DRAWINGS NOT FOR CONSTRUCTION



EASY STORAGE