

PROJECT INFORMATION:

THE BUILDING IS IN COMPLIANCE WITH THE:
 2018 NORTH CAROLINA BUILDING CODE
 2018 NORTH CAROLINA FIRE CODE
 2018 NORTH CAROLINA MECHANICAL CODE
 2018 NORTH CAROLINA PLUMBING CODE
 2018 NORTH CAROLINA ENERGY CONSERVATION CODE
 2012 NORTH CAROLINA FUEL GAS CODE
 2017 NATIONAL ELECTRIC CODE
 ICC ANSI A117.1 - 2009 ACCESSIBLE AND USABLE BUILDING AND FACILITIES

BUILDING PLANNING (CHAPTER 3.4.5.6):		
OCCUPANCY CLASSIFICATION (302.0 - 312.0)	MIXED OCCUPANCY GROUP M & S-1	
	(ALLOWABLE)	(ACTUAL)
NUMBER OF STORIES (TABLE 504.4):	2	1
BUILDING HEIGHT (TABLE 504.3):	60'-0"	30'-5"
BUILDING AREA (TABLE 506.2):	9,000	
AUTOMATIC SPRINKLER SYSTEM INCREASE (A _s) (506.3):	27,000	
MAXIMUM ALLOWABLE SQUARE FOOTAGE (A _s):	36,000	23,786

AREA MODIFICATIONS (506):
 AUTOMATIC SPRINKLER SYSTEM: YES - (300% INCREASE)

AREA INCREASE CALCULATOR		
BASE AREA	SPRINKLER INCREASE	
A _s	A _s	(A _s * I _s) / 100
A _s	9,000	27,000

TYPES OF CONSTRUCTION (CHAPTER 6)
 CONSTRUCTION CLASSIFICATION: **VB**

FIRE RESISTANT REQUIREMENTS: (TABLES 601 & 602)
 STRUCTURAL FRAME: 0 HR.
 BEARING WALLS:
 EXTERIOR: 0 HR.
 INTERIOR: 0 HR.
 NONBEARING WALLS AND PARTITIONS:
 EXTERIOR: SEE TABLE 602
 INTERIOR: 0 HR.
 FLOOR CONSTRUCTION: 0 HR.
 ROOF CONSTRUCTION: 0 HR.
 FIRE SEPARATION DISTANCE = X (feet)
 LESS THAN 5': 2 HR.
 MORE THAN 5', LESS THAN 10': 1 HR.
 MORE THAN 10', LESS THAN 30': 0 HR.
 GREATER THAN 30': 0 HR.

FIRE AND SMOKE PROTECTION FEATURES: (CHAPTER 7)
 FIRE-RESISTANT RATING OF STRUCTURAL MEMBERS (704): NOT REQUIRED
 EXTERIOR WALLS (705): NOT REQUIRED
 FIRE WALLS (706): NOT REQUIRED
 FIRE BARRIERS (707): NOT REQUIRED
 FIRE PARTITIONS (708): NOT REQUIRED
 SMOKE BARRIERS (709): NOT REQUIRED
 SMOKE PARTITIONS (710): NOT REQUIRED
 HORIZONTAL ASSEMBLIES (711): NOT REQUIRED
 VERTICAL OPENINGS (712): NOT REQUIRED
 SHAFT ENCLOSURES (713): NOT REQUIRED
 PENETRATIONS (714): NOT REQUIRED
 FIRE-RESISTANT JOINT SYSTEMS (715): NOT REQUIRED
 OPENING PROTECTIVES (716): NOT REQUIRED
 DUCTS AND AIR TRANSFER OPENINGS (717): NOT REQUIRED
 CONCEALED SPACES (718): NOT REQUIRED
 FIRE-RESISTANT REQUIREMENTS FOR PLASTER (719): NOT REQUIRED
 THERMAL- AND SOUND-INSULATING MATERIALS (720): NOT REQUIRED

INTERIOR FINISHES (CHAPTER 8)

OCCUPANCY/ GROUP	SPRINKLERED			NONSPRINKLERED		
	INTERIOR WALL	CEILING	FLOOR	INTERIOR WALL	CEILING	FLOOR
B, E, M, R-1	B	C	C	A	B	C
S	C	C	C	B	B	C

FIRE PROTECTION SYSTEMS (CHAPTER 9)
 AUTOMATIC SPRINKLER SYSTEMS (903): (REQUIRED) YES (PROVIDED) YES
 STANDPIPE SYSTEM (905): (REQUIRED) NO (PROVIDED) NO
 PORTABLE FIRE EXTINGUISHERS (906): (REQUIRED) YES (PROVIDED) YES
 FIRE ALARM AND DETECTION SYSTEM (907): (REQUIRED) NO (PROVIDED) YES
 EMERGENCY ALARM SYSTEMS (908): (REQUIRED) NO (PROVIDED) NO
 SMOKE CONTROL SYSTEMS (909): (REQUIRED) NO (PROVIDED) NO
 SMOKE AND HEAT REMOVAL (910): (REQUIRED) NO (PROVIDED) NO
 FIRE COMMAND CENTER (911): (REQUIRED) NO (PROVIDED) NO
 FIRE DEPARTMENT CONNECTIONS (912): (REQUIRED) YES (PROVIDED) YES

MEANS OF EGRESS (CHAPTER 10)
 OCCUPANT LOAD (1004):

OCCUPANCY LOADS (1004.0 TABLE 1004.1.2)			
OCCUPANCY USE	SQUARE FEET/ OCCUPANT	TOTAL OCCUPANCY SQUARE FOOTAGE	OCCUPANTS
MERCANTILE	60	12,906	216
BUSINESS	100	616	7
STORAGE / STOCK	300	7,577	26
TOTAL OCCUPANT LOAD			249

EGRESS WIDTH (1005):

USE GROUP OR SPACE DESCRIPTION	[A] OCCUPANT LOAD PER UNIT	[B] EGRESS WIDTH PER OCCUPANT (SECTION 1005.1)		REQUIRED WIDTH (SECTION 1005) (A X B)		EXIT WIDTH (IN.)	
		STAIR	LEVEL	STAIR	LEVEL	STAIR	LEVEL
		ACTUAL WIDTH SHOWN ON PLANS					
MERCANTILE	216	0.3	0.2	64.8	43.2		
BUSINESS	7	0.3	0.2	2.1	1.4		
STORAGE	26	0.3	0.2	7.8	5.2		
TOTAL:	249	0.3	0.2	74.7	49.8		

* Where more than one exit, or access to more than one exit, is required, the means of egress shall be configured such that the loss of one exit or access to one exit shall not reduce the available capacity to less than 50 percent of the total required capacity (Section 1005.5)

ACCESSIBLE MEANS OF EGRESS (1007):

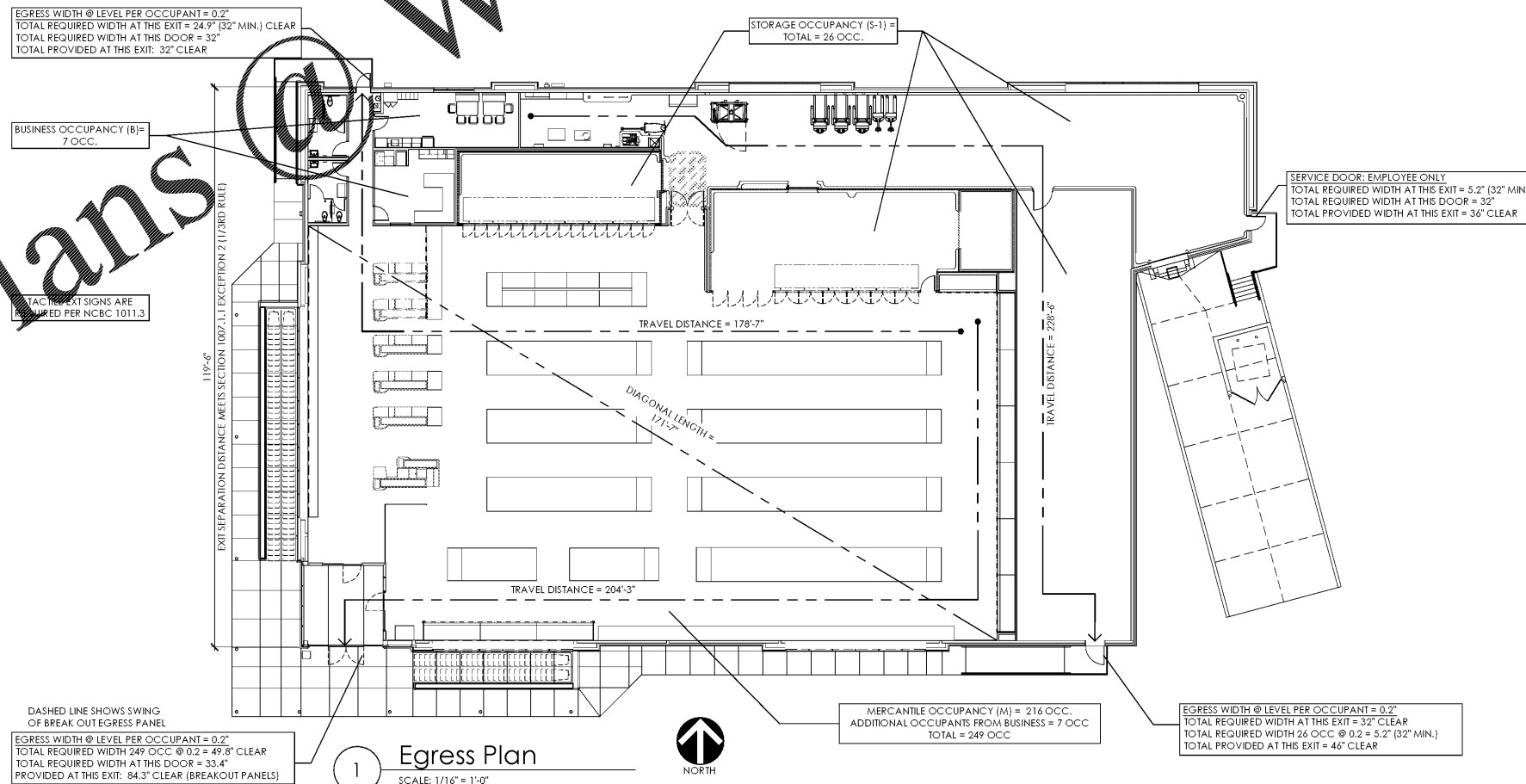
DOOR WIDTH (1008): (REQUIRED) YES (PROVIDED) YES
 MINIMUM: 32"
 MAXIMUM: 48"
 PANIC HARDWARE (1008.1.9): (REQUIRED) NO (PROVIDED) YES
 EXIT SIGNS (1011): (REQUIRED) YES (PROVIDED) YES
 HANDRAILS (1012): 34" H. MIN., 38" H. MAX.
 GUARDS (1013): 42" H. IF ADJACENT GRADE IS GREATER THAN 30"
 COMMON PATH OF EGRESS TRAVEL (1014.3): 75' MERCANTILE 100' STORAGE
 MINIMUM # OF EXITS REQ. ON 1ST FLOOR (1015): (REQUIRED) 3 (PROVIDED) 4
 MAXIMUM TRAVEL DISTANCE TO AN EXIT (TABLE 1016.1): 250'
 MINIMUM CORRIDOR WIDTH (1018.2): 44" / 60" FOR H.C. TURN AROUND (AT 200' INTERVALS)
 MAXIMUM DEAD END CORRIDOR DISTANCE (1018.4): 50' IF SPRINKLERED

ACCESSIBILITY (CHAPTER 11)

CHECK-OUT AISLES (TABLE 1109.12.2): (REQUIRED) 2 (PROVIDED) 5

PLUMBING FIXTURE REQUIREMENTS:

OCCUPANCY/ GROUP	MINIMUM NO. OF REQUIRED PLUMBING FIXTURES (IBCP TABLE 403.1)					
	WATER CLOSETS (URINALS)		LAVATORIES		BATHUBS/ SHOWERS	DRINKING FOUNTAINS
	MALE	FEMALE	MALE	FEMALE		
MERCANTILE (REQUIRED)	1 PER 500		1 PER 750		1 PER 1,000	SERVICE SINK
MERCANTILE (PROVIDED)	1+1	2	1	1	--	1



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ms consultants, inc.
 engineers, architects, planners
 5444 Wade Park Blvd.
 Suite 160
 Raleigh, NC 27607-4299
 phone 919.772.5565
 fax 919.779.2308

DRAWN BY: KKL
 REVIEWED BY: NAL

Seal
 PROFESSIONAL OF RECORD:
 CHARLES M. BUSCH No. 14751
 EXP. DATE: 06/30/2020

ALDI Inc.
 1985 Old Union Church Road
 Salisbury, NC 28146
 (704) 642-0023
 (704) 642-0076 fax

ALDI Inc. Store #: 154
 Cornelius, NC
 20101 West Catawba Avenue
 Cornelius, NC 28031
 Mecklenburg County
 Project Name & Location:

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