

PLUMBING CALCS
OCCUPANCY CLASSIFICATION: MERCANTILE
OCCUPANT LOAD: 128 OCC.

WATER CLOSETS: 1 PER 500 OCC.
REQUIRED: 1
PROVIDED: 10

LAVATORIES: 1 PER 750 OCC.
REQUIRED: 1
PROVIDED: 6

DRINKING FOUNTAIN: 1 PER 1000 OCC.
REQUIRED: 1
PROVIDED: 1 HIGH-LOW

SERVICE SINK:
REQUIRED: 1
PROVIDED: 1

APPLICABLE CODES:
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2014 NATIONAL ELECTRICAL CODE

CODE REVIEW
PROPOSED METHOD OF COMPLIANCE: PRESCRIPTIVE
ALTERATION LEVEL: LEVEL 3
PREVIOUS OCCUPANCY CLASSIFICATION: A-3 ASSEMBLY
PROPOSED OCCUPANCY CLASSIFICATION: M - MERCANTILE

MAXIMUM ALLOWABLE AREA (SF):
M MERCANTILE 36,000 SF
TABLE 506

CONSTRUCTION TYPE: VB
CHAP. 6

MAX. TRAVEL DISTANCE:
MAX. ALLOWABLE TRAVEL DISTANCE w/ SPRINKLERS:
GROUP M - MERCANTILE 250 ft.
TABLE 1016.2

MEANS OF EGRESS SIZING (BASED ON OCC. LOAD):
0.2 (128 OCC.) = 26"
SECTION 1005.3.2

MINIMUM CORRIDOR WIDTH: 44"
TABLE 1020.2

MINIMUM DOOR SIZE: 32" CLEAR
SECTION 1010.1.1

DEAD END CORRIDORS: SECTION 1018.4
MAX. ALLOWABLE w/ SPRINKLERS: 20 ft.

OCCUPANCY CALCULATION: TABLE 1004.1.2

OCCUPANCY LOAD			
FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	AREA	OCCUPANCY LOAD
ACCESSORY	1/300 SF	1180 SF	3.93
MERCANTILE	1/60 SF	7379 SF	122.98
MERCANTILE STORAGE	1/300 SF	414 SF	1.38
TOTAL:		8972 SF	128 OCC.

FIRE SUPPRESSION SECTION 903

EXISTING SPRINKLER SYSTEM TO REMAIN
GROUP M: **NO SPRINKLER SYSTEM REQUIRED**
AUTOMATIC SPRINKLER SYSTEMS REQUIRED WHERE:

- FIRE AREA EXCEEDS 12,000 SF
- FIRE AREA IS LOCATED MORE THAN THREE STORIES ABOVE GRADE PLANE
- THE COMBINED AREA OF ALL GROUP M FIRE AREAS ON ALL FLOORS, INCLUDING ANY MEZZANINES, EXCEEDS 24,000 SF.
- A GROUP M OCCUPANCY USED FOR THE DISPLAY AND SALE OF UPHOLSTERED FURNITURE OR MATTRESSES EXCEEDS 5,000 SF.

FIRE ALARM & DETECTION SYSTEMS SECTION 907

GROUP M: **NO FIRE ALARM REQUIRED**
FIRE ALARMS REQUIRED WHERE:

- GROUP M OCCUPANT LOAD OF ALL FLOORS IS 500 OR MORE PERSONS.
- THE GROUP M OCCUPANT LOAD IS MORE THAN 100 PERSONS ABOVE OR BELOW THE LOWEST LEVEL OF EXIT DISCHARGE.

FIRE EXTINGUISHERS TABLE 906.3

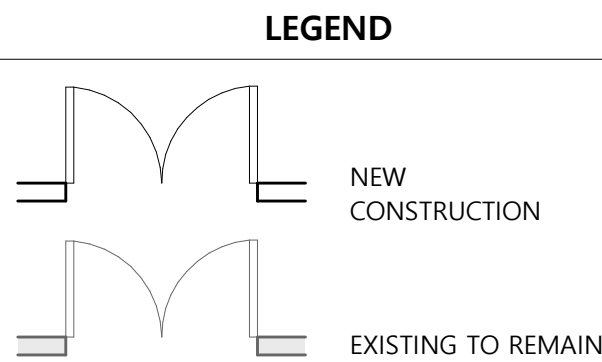
MINIMUM RATED SINGLE EXTINGUISHER: 2-A

MAXIMUM FLOOR AREA PER UNIT OF A: 3,000 SF

MAXIMUM TRAVEL DISTANCE TO EXTINGUISHER: 75'

AREA LEGEND

- ACCESSORY
- MERCANTILE
- MERCANTILE STORAGE



DAMIAN
FARRELL
DESIGN
GROUP

359 METTY DRIVE, SUITE 4A
ANN ARBOR, MI 48103
tel: 734.998.1331

FOR BUILDING PERMIT

C3 - BRANSON MO
3125 GREEN MOUNTAIN DRIVE
BRANSON, MO 65616

DATE
01.15.2024

DESCRIPTION
PERMIT SET

DESIGN Designer
DRAWN Author
PROJECT NO. 23_05_19

CODE REVIEW &
LIFE SAFETY PLAN

T3.0