

CODE	EDITION	DESCRIPTION
AFPC	2021	ARKANSAS FIRE PREVENTION BUILDING CODE
NFPA 1	2021	FIRE CODE
NFPA 10	2022	STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 13	2019	INSTALLATION OF SPRINKLER SYSTEMS
NFPA 24	2019	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 25	2020	STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS
NFPA 70	2020	NATIONAL ELECTRIC CODE
NFPA 72	2019	NATIONAL FIRE ALARM CODE
NFPA 90A	2021	STANDARD INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
NFPA 101	2021	LIFE SAFETY CODE

PER INTERNATIONAL EXISTING BUILDING CODE

- ☐ REPAIRS  
☐ ALTERATION LEVEL 1  
☐ ALTERATION LEVEL 2  
☐ ALTERATION LEVEL 3  
☐ CHANGE OF OCCUPANCY  
☒ ADDITIONS  
☐ HISTORIC BUILDING  
☐ RELOCATED BUILDING

☒ SINGLE  
☐ MIXED  
☐ SEPARATED    ☐ NON SEPARATED

OCCUPANCY CLASSIFICATION(S): H-1  
ACCESSORY OCCUPANCIES: N/A

BUILDING HEIGHT	HEIGHT IN FEET 22' - 0"	HEIGHT IN STORIES 1
BUILDING AREA	17,458.00 SF	

		TABULAR AREA (TABLE 506.2)		TABULAR HEIGHT (TABLE 504.3-4)		
OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION	AREA FACTOR	AREA	AREA FACTOR	FEET	STORIES
H-1	IIB	S1	7000	S	75	1

UNLIMITED AREA ☐ YES ☒ NO  
 QUALIFY FOR FRONTAGE INCREASE? ☒ YES ☐ NO  
 FRONTAGE INCREASE FACTOR (TABLE 506.3.3): 0.75

$$\text{ALLOWABLE AREA } A_A = [A_T + (NS \times I_F)] \quad (506.2)$$

$$12250 = \left[ \frac{7000}{1} + \left( \frac{7000}{1} \times \frac{0.75}{1} \right) \right]$$

ALLOWABLE AREA	TABULAR ALLOWABLE AREA FACTOR	TABULAR ALLOWABLE AREA FACTOR FOR NS	FACTOR INCREASE DUE TO FRONTAGE
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	EXITS	EXIT ACCESS CORRIDORS	OTHER SPACES
WALL & CEILING FINISH	A	A	B
FLOOR COVERINGS	II	II	II

(TABLE 803.13)

- ☐ FURNACE ROOM
- ☐ ROOMS WITH BOILERS
- ☐ REFRIGERANT MACHINERY ROOM
- ☐ HYDROGEN FUEL GAS ROOMS
- ☐ INCINERATOR ROOMS
- ☐ PAINT SHOPS IN OTHER THAN F
- ☐ GROUP E LABORATORIES AND VOCATIONAL SHOPS
- ☐ GROUP I-2 LABORATORIES
- ☐ AMBULATORY CARE FACILITIES
- ☐ LABORATORIES
- ☐ LAUNDRY ROOMS OVER 100 SQFT
- ☐ GROUP I-2 LAUNDRY ROOMS OVER 100 SQFT

- ☐ GROUP I-3 CELLS AND GROUP I-2 PATIENT ROOMS
- ☐ GROUP I-2 PHYSICAL PLANT MAINTENANCE SHOPS
- ☐ AMBULATORY CARE FACILITIES OR GROUP I-2 WASTE AND LINEN COLLECTION ROOM WITH AGGREGATE VOLUME OF 10CF
- ☐ OTHER THAN AMBULATORY AND GROUP I-2 WASTE AND LINEN COLLECTION ROOMS OVER 100 SQFT
- ☐ AMBULATORY CARE FACILITIES OR GROUP I-2 STORAGE ROOMS OVER 100 SQFT
- ☐ ELECTRICAL INSTALLATIONS AND TRANSFORMERS

IF APPLICABLE, SEPARATION AND/OR PROTECTION: N/A

(TABLE 509.1)

FIRE PROTECTION SYSTEM	REQUIRED	PROVIDED	SECTION
AUTOMATIC SPRINKLER	●	●	903
ALTERNATIVE AUTO FIRE EXT			904
STANDPIPE			905
PORTABLE FIRE EXTINGUISHERS	●	●	906
FIRE ALARM AND DETECTION		●	907
EMERGENCY ALARM			908
SMOKE CONTROL			909
SMOKE & HEAT REMOVAL			910
FIRE COMMAND CENTER			911
FIRE DEPT. CONNECTIONS	●	●	912
FIRE PUMPS			913
EMERGENCY RESPONDER FEATURES			914
CARBON MONOXIDE DETECTION			915
GAS DETECTION SYSTEMS			916
MASS NOTIFICATION SYSTEMS			917
EMERGENCY RESP. COMM COVERAGE			918

	REQUIRED	SECTION
STRUCTURAL FRAME	0	601
BEARING WALLS (EXTERIOR)	0	601
BEARING WALLS (INTERIOR)	0	601
NON-BEARING WALLS (EXTERIOR)	0	601
NON-BEARING WALLS (INTERIOR)	0	601
FLOOR CONSTRUCTION	0	601
ROOF CONSTRUCTION	0	601
INTERIOR EXIT STAIRWAYS	N/A	1023
SHAFT ENCLOSURE	N/A	713
CORRIDORS	N/A	1020

MEANS OF EGRESS ELEMENT	REQUIRED	PROVIDED	SECTION
NUMBER OF EXITS	2	12	1006.3.3
EXIT ACCESS TRAVEL DISTANCE	75 ft	75 ft	1017.2
DEAD-END LIMIT	20 ft	0 ft	1020.5
COMMON PATH OF TRAVEL LIMIT	25 ft	17 ft	1006.2.1

TOTAL OCCUPANT LOAD:	191
EGRESS WIDTH:	0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS
MINIMUM CORRIDOR WIDTH:	44"
CLEAR OPENING DOOR WIDTH:	32"
ILLUMINATION OF EGRESS:	1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT FAILURE.

EMERGENCY EGRESS LIGHTING: EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES DESIGNATED CORRIDORS, AISLES, AND PASSAGeways. DISCHARGE INCLUDES DESIGNATED DOORS, WALKWAYS, AND RAMPS LEADING TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.

EXIT MARKING: MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER NFPA 101 7.10

Project

AEROJET BUILDING E33  
OFFICE EXPANSION  
EAST CAMDEN,  
ARKANSAS

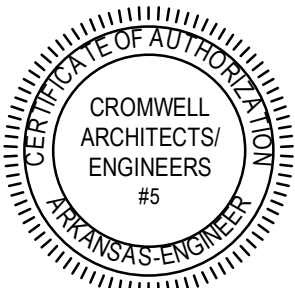
### Design Phase

## Revisions

No.	Date	Description
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12-19-2024

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Issue Date \_\_\_\_\_

Sheet Title

## LIFE SAFETY CODE ANALYSIS

Sheet Number

# GI001