



PHILANDER
SMITH
UNIVERSITY

M.L. HARRIS
AUDITORIUM
RENOVATION

APPLICABLE CODES AND STANDARDS

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

EXISTING STRUCTURE - CLASSIFICATION OF WORK

PER INTERNATIONAL EXISTING BUILDING CODE

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

OCCUPANCY CLASSIFICATION

- ☐ SINGLE
- ☒ MIXED
- ☐ SEPARATED
- ☒ NON SEPARATED

OCCUPANCY CLASSIFICATION(S): A-1, B
ACCESSORY OCCUPANCIES: S

CONSTRUCTION CLASSIFICATION: IIB

HEIGHT AND AREA - ACTUAL

BUILDING HEIGHT	HEIGHT IN FEET 45' - 0"	HEIGHT IN STORIES 2
BUILDING AREA	16,150.00 SF	

HEIGHT AND AREA- ALLOWABLE

OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION	TABULAR AREA (TABLE 506.2)		TABULAR HEIGHT (TABLE 504.3-4)		
		AREA FACTOR	AREA	AREA FACTOR	FEET	STORIES
A-1	IIB	NS	8500	NS	55	2
B	IIB	NS	23000	NS	55	3

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

ALLOWABLE AREA A_A = [A_T + (NS X I_F)] (506.2)

14875

=

[

8500

+

(

8500

X

0.75

)

]

ALLOWABLE AREA

TABULAR ALLOWABLE AREA FACTOR

TABULAR ALLOWABLE AREA FACTOR FOR NS

FACTOR INCREASE DUE TO FRONTAGE

INTERIOR FINISH REQUIREMENTS

	EXITS	EXIT ACCESS CORRIDORS	OTHER SPACES
WALL & CEILING FINISH	A	A*	B
FLOOR COVERINGS	II	II	II

(TABLE 803.13)

INCIDENTAL USES

- ☐ 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 SYSTEMS

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

FIRE RESISTANCE OF BUILDING ELEMENTS

	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	2	1023
SHAFT ENCLOSURE	1	713
CORRIDORS	0	1020

MEANS OF EGRESS

MEANS OF EGRESS ELEMENT	REQUIRED	PROVIDED	SECTION
NUMBER OF EXITS	3	7	1006.3.3
EXIT ACCESS TRAVEL DISTANCE	200 ft	144 ft	1017.2
DEAD-END LIMIT	20 ft	0 ft	1020.5
COMMON PATH OF TRAVEL LIMIT	30 ft	17 ft	1030.8

TOTAL OCCUPANT LOAD:

1006

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

*LOBBY AREAS SHALL BE NOT LESS THAN CLASS B MATERIALS

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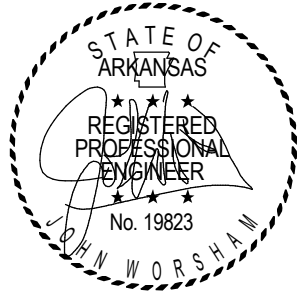
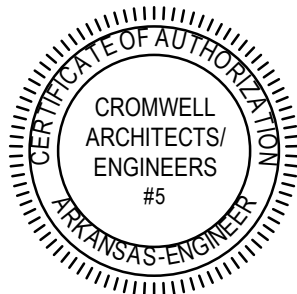
Design Phase

CONSTRUCTION
DOCUMENTS

Revisions

No.	Date	Description

Stamp



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LIFE SAFETY CODE
ANALYSIS

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