BUILDING ADVISORY BOARD

Building Advisory Board meetings will take place via Zoom until further notice. You can view the meetings at the Salina Media Connection YouTube channel: https://www.youtube.com/channel/UCdD-ujKcVEmidcSVbGbMS0A

To participate in the meetings, citizens will need to use the Zoom link – https://us02web.zoom.us/j/82654378958

The Zoom meeting can also be accessed by phone at 1-346-248-7799. Enter Meeting ID: 826 5437 8958 when prompted.

If citizens wish to speak, either during the public forum or when the Chair requests public comment on an item, citizens must raise their hand so that the meeting host can allow them to speak.

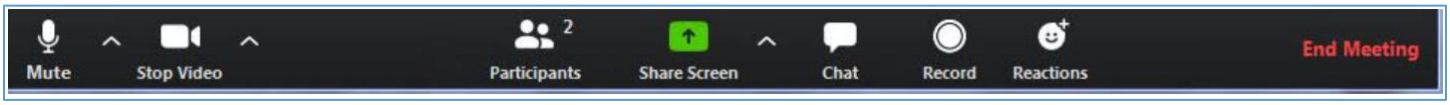
Citizens can also send written comments or questions to Building Advisory Board members vie email at buildingservices@salina.org.

In order for the Board Members to have an opportunity to review comments in advance of the meeting, please email your comments or questions by 12:00 p.m. Tuesday, prior to the 4:00 p.m. meeting.

Building Advisory Board Zoom Meeting Cheat Sheet

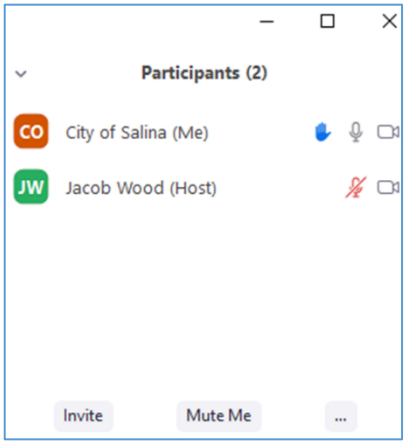
Joining a meeting:

- At the start time of your meeting – or just before, click on the link provided in the packet: https://us02web.zoom.us/j/82654378958
- If you haven't already downloaded the Zoom app, you'll be prompted to do so now.
- If you have downloaded, then click on Open zoom.us to launch the app.
- You will be prompted to select your video option: join with video or join without video (select one on screen)
- The meeting host will be notified that you are joining the meeting and will admit you.
- You may be prompted to choose your audio option. Select whichever audio option you decide.
- You can test your audio by clicking on test speaker and microphone and adjust to suit.



Meeting Controls:

- Mute/Unmute: Mute and unmute your microphone. The host can grant permission for attendees to speak at the appropriate time.
- Start Video/Stop Video: Turns your camera on or off.
- Participants: Click the participants button access these functions:
  - Rename: Hover and click to change your screen name.
  - Raise Hand: Tap your name and then tap Raise Hand to indicate that you would like to speak. You will see the raised hand icon beside your name in the participants list. You can click it again to lower hand.



Helpful Hints to remember during the Zoom meeting:

- **Close any computer applications other than Zoom**: The Zoom application works best when it is not competing with other applications.
- **Be mindful of background noise**: When your microphone is not muted, avoid activities that could create additional noise, such as shuffling papers.
- **Limit distractions**: You can make it easier to focus on the meeting by turning off notifications, closing or minimizing running apps, and muting your smartphone.
- **Avoid multi-tasking**: Please follow the same guidelines and etiquette that you would at a normal public meeting and avoid multi-tasking.
- **Mute your microphone:** To help keep background noise to a minimum, make sure you mute your microphone when you are not speaking.

AGENDA

BUILDING ADVISORY BOARD
Meeting via Zoom
Tuesday, March 9, 2021
3:00 P.M.

1. CALL TO ORDER

(1.1) Roll Call

(1.2) Chair requests staff confirmation that Kansas Open Meeting Act required notice has been properly provided.

2. APPROVAL OF MINUTES

(2.1) Approval of the Minutes of the October 13, 2020 regular meeting.

3. NEW BUSINESS

Public Hearing Items

The applicant or an appointed representative must be present in order for the Building Advisory Board to take action on an item.

- ***Quasi-Judicial Matters***

  Board members may not receive or engage in ex-parte contact with the applicant, other parties interested in the application, or members of the public concerning the application or issues presented in the application.

  (3.1) none

- ***Legislative Matters***

  (3.2) none

Administrative Items

(3.3) Annual BAB report to the City Commission

Preliminary Discussion Items

(3.4) Discussion on code update

4. UNFINISHED OR OTHER BUSINESS

(4.1) Presentation on code footprint

5. PUBLIC FORUM

6. ADJOURNMENT

Record of this Meeting

This public meeting will be recorded by Salina Media Connection and available to view online free of charge at http://www.salinatv.org/index.php/city-of-salina. To receive meeting packets by email, subscribe to *Email Notifications* at http://www.salina-ks.gov/content/18160/23455/23473/default.aspx. Meeting DVDs and paper copies of meeting packets are available upon request (retrieval and/or duplication fees may apply). Please contact the Community and Development Services Department at building.services@salina.org or by phone at 785.309.5715 to request these open public records.

Building Services Department
Community & Development Services
City-County Building
300 West Ash · P.O. Box 736
Salina, Kansas 67402-0736

TELEPHONE · (785) 309-5715
FAX · (785) 309-5713
TDD · (785) 309-5747
E-MAIL · building.services@salina.org
WEBSITE · www.salina-ks.gov

Staff Report – Agenda Item

To: Building Advisory Board

From: Sean Pilcher

Re: Annual Report

Date: 3-9-21

Background:

Attached is the annual report that has been submitted to the city commission for 2020.

Building Advisory Board Action:

None required. For informational purposes only.

CITY OF SALINA
BOARDS AND COMMISSION ANNUAL REPORTING FORM

Annual Report of the Year: 2020

BOARD: Building Advisory Board

ACCOMPLISHMENTS: List three to five accomplishments your board/commission has achieved.

- The Board reviewed its current bylaws and considered changes to make them similar to other boards.
- The board held training on citizen volunteer board requirements

GOALS: List three to five new goals that your board/commission has set.

- The Board will work with staff to improve code appeal and property maintenance appeal hearing process.
- The Board will continue to address the continuing education needs for the contractors and will provide direction on providing CEU opportunities.
- The Board will continue to seek involvement from the design professionals and contractors to assure that we are providing the best service possible to the residents of Salina.
- The board will begin the process of reviewing and updating the Salina's model construction codes.

OTHER ITEMS OF INTEREST: (Optional) List any items that you feel would be beneficial for the City Commission to be aware of.

ATTENDANCE: List all members that have served during the reporting year. Please enter the number of meetings attended and the number of total meetings. Enter each member's percentage of attendance.

Member	Meetings Attended	Percentage
Kevin Cool	3 of 3	100%
Mark Frazier	2 of 3	66%
Duane Grace	1 of 3	33%
Scott Krous	3 of 3	100%
William McBride	3 of 3	100%
David Miller	3 of 3	100%
Greg Nichols	3 of 3	100%
Rick Walters	2 of 3	66%
Ryan White	3 of 3	100%
Tiana Marion (Youth)	1 of 2	50%

Health, safety and well being presentation related to the Kansas Code Footprint

By Rick Fay, Architect

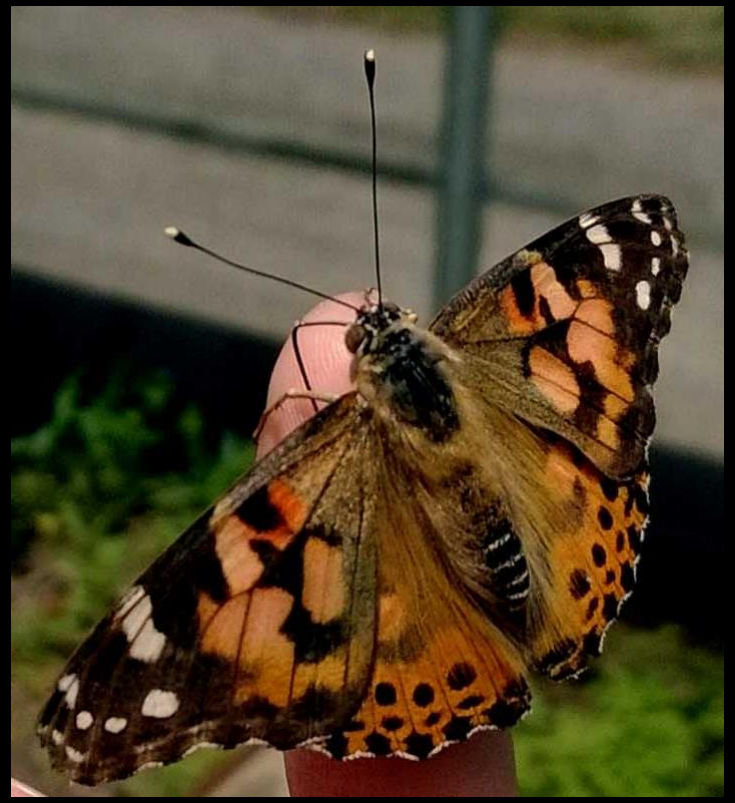
Presented to
Architects & Code Enforcement Staff
Spring 2021

(founder of the code footprint concept in Kansas)

3 parts

I. History -10 minutes
II. 2020 Example – 15 minutes
III. Case studies – 15 minutes
IV. Questions/answers 10 minutes

Part 1 –
Brief high-lites



In 1995
design was added to
construction &
maintenance to define
when the KFPC was being
regulated

Kansas Fire Prevention Code (KFPC)

regulates all commercial buildings in Kansas

In Kansas
code footprint requirements
are only found within the
Kansas Fire Prevention Code
from the
Kansas State Fire Marshal

code footprint standardizes information required of Kansas licensed designers

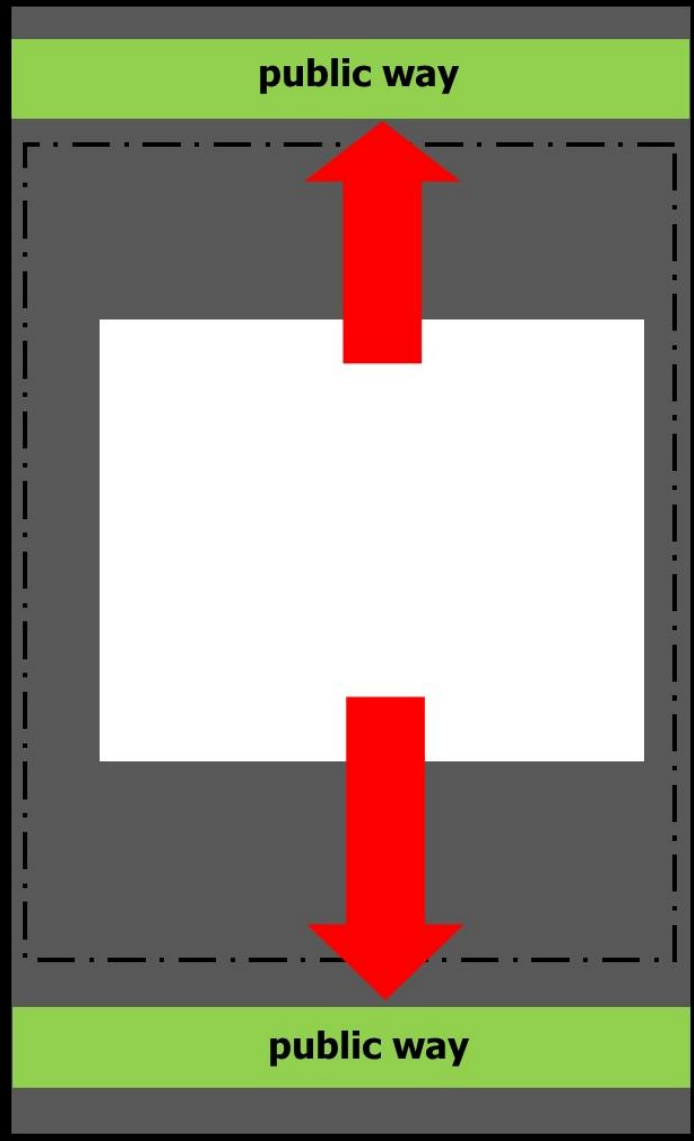
For all new commercial

- buildings,
- building additions,
- renovations &
- changes in occupancy

since 2004

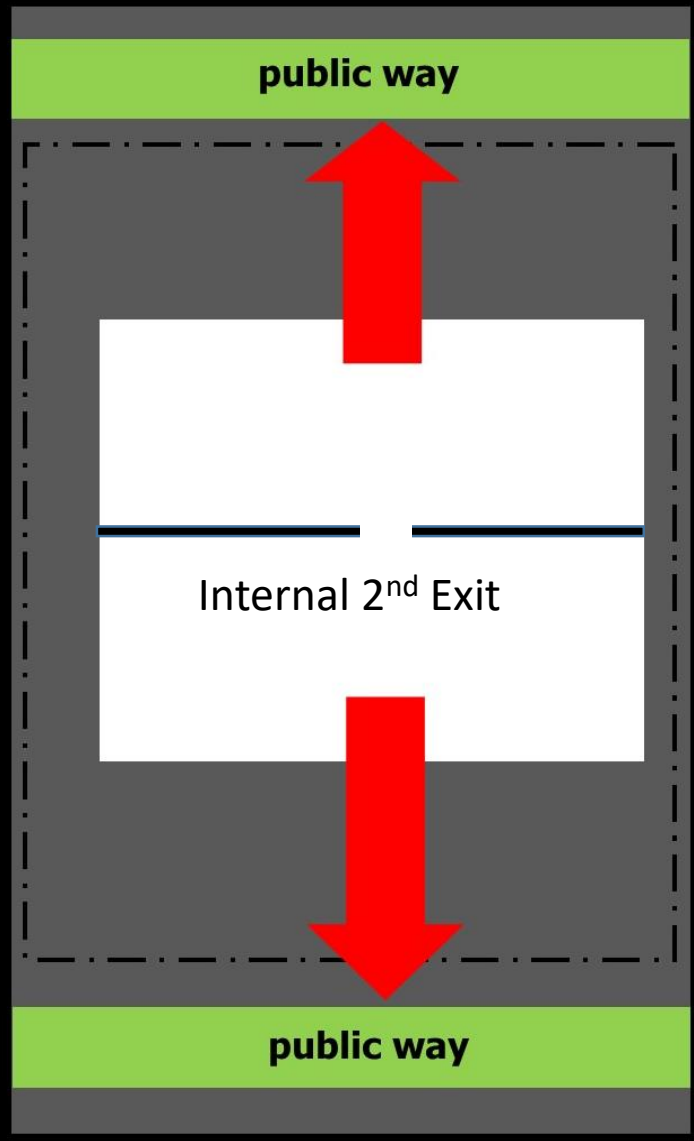
Immediate exit – under occupants control

simply:
code footprint shows & tells how to get from inside a building to the public way



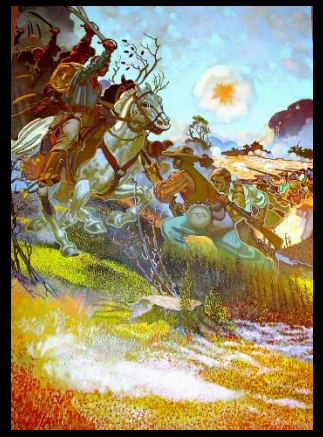
Deferred exit
Hospitals,
nursing homes,
correctional
facilities
dependent upon
others actions

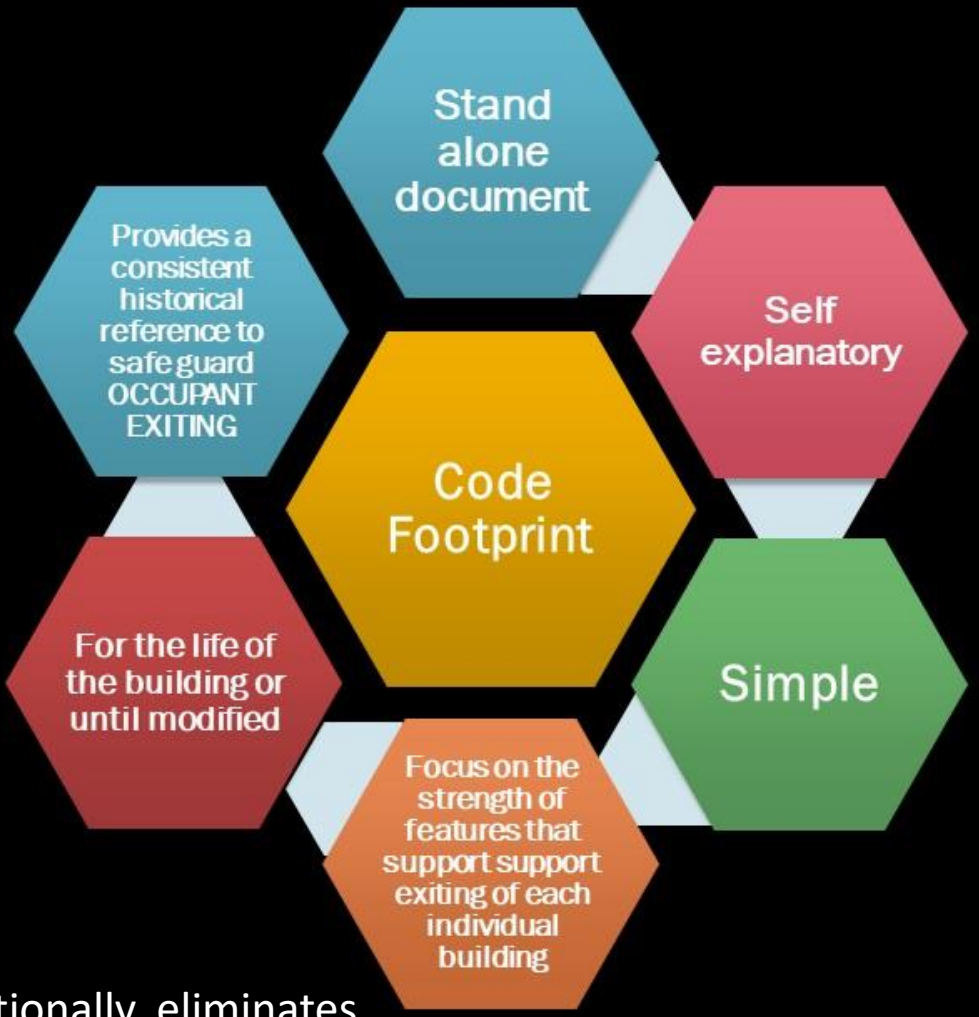
simply:
code footprint shows & tells how to get from inside a building to the public way



- Location
- Occupancy type
- Occupant load
- Exiting
- Notification
- Detection
- Separation & Suppression (ENDS)

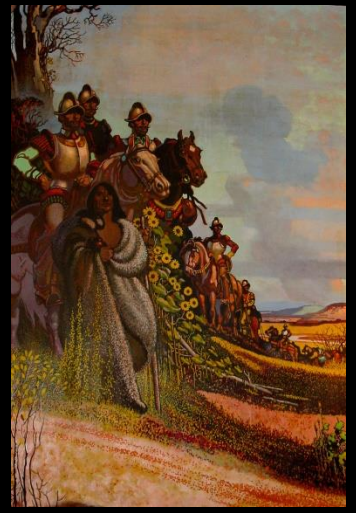
Panel 00
KFPC
Code Footprint introduction

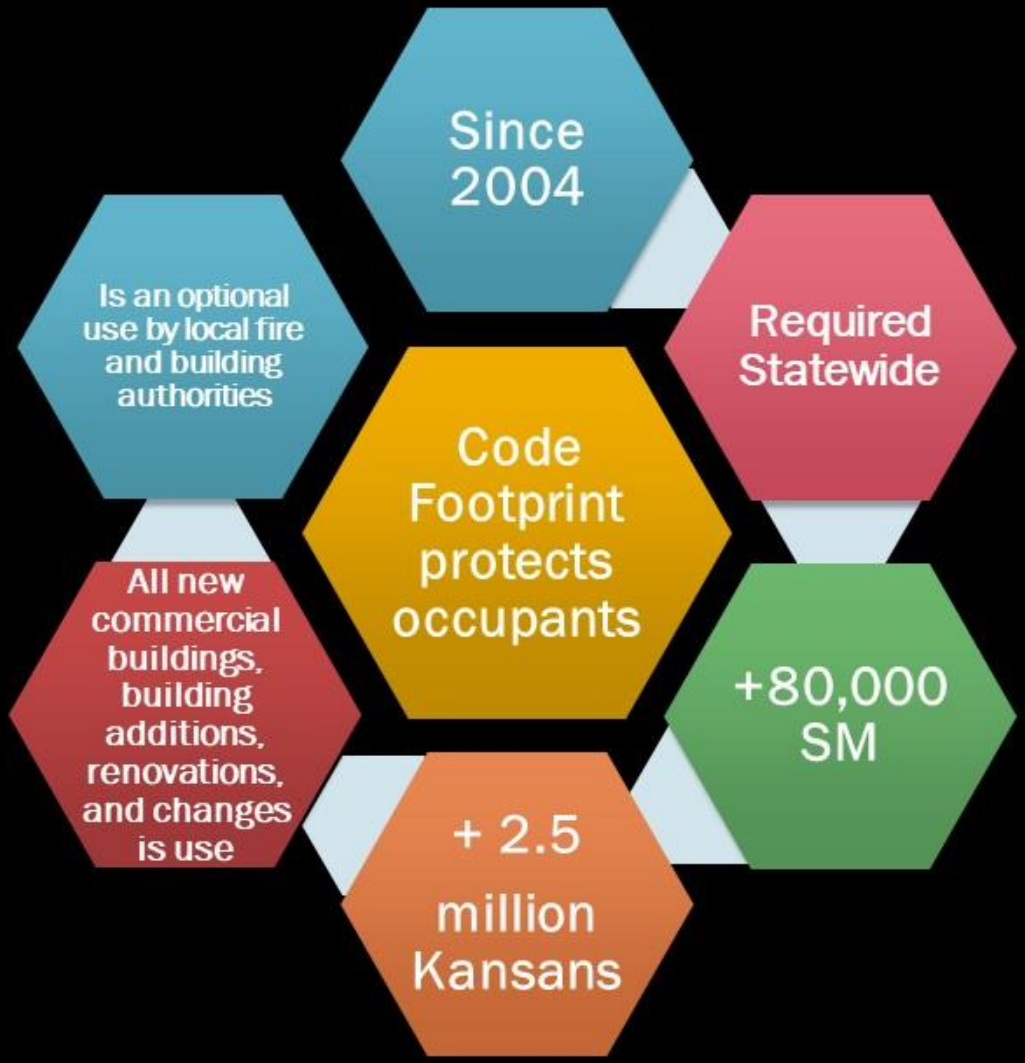




Intentionally, eliminates sections of code that are not required

Panel 0
KFPC
Code Footprint introduction





Kansas

"WHEN YOU BUILD"

KANSAS MUNICIPALITY AND CODE OFFICIALS BROCHURE

Second Edition, May 2016

Code Footprint
Frequently Asked Questions

This brochure has been published by a joint effort of the Kansas State Board of Technical Professions, the Office of the State Fire Marshal, AIA Kansas, the Kansas Society of Professional Engineers, and the American Council of Engineering Companies of Kansas in order to aid municipalities, building officials, design and construction professionals, and the general public in understanding the laws governing the practice of architecture and engineering in the state of Kansas.

Information contained herein is basic and shall not supersede the statutes and rules and regulations of the state of Kansas. Kansas statutes and rules and regulations are subject to change. Please check http://ksbtp.ks.gov/statutes-rules/ksbtp-statutes-rules-regulations and www.firemarshal.ks.gov/ for the most current version of the law.

Efforts have been made to identify and address questions most frequently asked by building officials.

Municipalities With Building Code Officials:

Building officials protect the public by enforcing building code requirements. Throughout the plan check and inspection process, building officials try to ensure compliance with building codes, local codes, and ordinances. Building officials have the authority to reject documents as submitted and to withhold permits. Building officials rely on the Kansas State Board of Technical Professions to assure that the design professional is licensed to practice in this state. The Board must depend primarily upon the local building officials and the Office of the State Fire Marshal to assure that only those who are properly licensed are allowed to provide design services.

Municipalities Without Building Codes or Officials:

The Office of the State Fire Marshal with its network of local fire chiefs is responsible to protect the public by enforcing building codes that have been adopted by their office. The Kansas State Board of Technical Professions must depend upon the OSFM to assure that only those who are properly licensed are allowed to provide design services.

Kansas State Board of Technical Professions
900 SW Jackson, Suite 507
Topeka, KS 66612
785-296-3053
www.ksbtp.ks.gov

Office of the State Fire Marshal
800 SW Jackson, Suite 104
Topeka, KS 66612
785-296-3401
www.firemarshal.ks.gov

AIA Kansas
700 SW Jackson, Suite 209
Topeka, KS 66603
785-357-5308
www.aiaks.org

Kansas Society of Professional Engineers
825 S. Kansas Ave, Suite 500
Topeka, KS 66612
785-233-2121
www.kansasengineer.org

American Council of Engineering Companies of Kansas
825 S. Kansas Ave, Suite 500
Topeka, KS 66612
785-357-1824
www.acecks.org

Prairie Gateway Chapter—ASLA
1801 McGee Street, Suite 100
Kansas City, MO 64108
816-421-1054
www.pgasla.org

CODE FOOTPRINT

1. What is a code footprint?

The code footprint is a snapshot, small-scale building plan showing key features of life safety and fire protection systems, including notification and detection systems, fire/smoke separations, and suppression systems. Detailed requirements are specified in Kansas Administrative Regulation 22-1-7, through the Office of the State Fire Marshal at www.firemarshal.ks.gov.

2. When is a code footprint required and who must it be submitted to?

A code footprint must be prepared by a licensed Kansas Architect or Engineer and shall be submitted to the state fire marshal for review and approval for any new construction, building additions, renovation, or change of occupancy for the following types of buildings.

- Any Group A Assembly occupancy with combined occupant load greater than 2,000 persons.
- Any Group B Business occupancy used by any community college, area vocational school, vocational technical school, technical college, or any institution under the governance of the State Board of Regents.
- Any Group A Assembly occupancy mixed with a Group E Educational occupancy or Group I Institutional occupancy including any daycare facility for more than 24 persons.
- Any Group E Educational occupancy, including any daycare facility for more than 24 persons.
- Any Group I Institutional occupancy, including any state or other governmental entity's detention facilities, and any occupancy physically attached to a Group I occupancy regardless of fire barrier separation.
- Any Group R-1 or R-2 residential occupancy that is three or more stories in height, including basements, or more than 12,000 sq. ft in area and any R-4 residential occupancy.
- The local code official can require the code footprint be submitted for his review, at his discretion, for any new construction, building additions, renovations, or changes in occupancy, regardless of building occupancy.

Code footprint

CODE FOOTPRINT ADDITIONAL AVAILABLE RESOURCES

1998 Article published in quarterly OSU magazine – "Speaking of Fire"
2000 15 minute video produced and distributed by the Kansas State Fire Marshal's Office
2001 FPC (Fire Protection Contractor) Magazine Sprinklers and the Code Footprint
2004 Kansas Administrative Regulation (K.A.R.) 22-1-7
2016 Kansas Municipalities and Codes Officials Brochure
2019 Kansas Buildings Fire Safety Handbook – Fire Fact 010










Seelye Mansion, Abilene, KS
Health, Safety and Welfare Features

HEALTH

Electric lighting – First floor fixtures purchased at the 1904 World's Fair at St. Louis Missouri – electrical burned very cleanly. Some of the original Edison bulbs lasted over 50 years. Interior clothing closets with operable exterior windows to reduce an environment to invite moth damage – moths do not flourish in rooms with bright exterior light and ventilation. Blue ceiling of two story main porch – discouraged both bird and insect nesting, and made sitting on the front porch furniture a pleasant – avoiding pigeon excrement which contained bacteria and histoplasmosis was desirable. Well water was provided to the site until the City of Abilene made city water available. One servant's bathroom was located inside with a water flushing toilet and had a metered water faucet. Indoor bathrooms – on-suite and a bathroom shared between, the toilet in the on-suite tipped backward to help with an individual's waste elimination Dust – considering the east and west doors are opening during spring and fall, the amount of dust that comes through these doors is relatively limited Laundry chute from the third floor to the basement to prevent moving soiled linens through the house. Linens were steam pressed which reduced chances of contamination. Guest dinner meals – lean protein - including site raised chickens for frying Guests ate using silver utensils, crystal and china dishware which cleaned easily and could be quickly determined and maintained clean Five third 3rd floor guest rooms provided a private bath and toilet portable indoor commode with wash basins due to insufficient water pressure to reach upper floors No alcoholic beverages or tobacco products were allowed in the mansion 1905 -1982

SAFETY

Tornado shelter designed under the Southwest portion of the West Facing porch in the basement in original house 1905 construction based on the Wizard of Oz story

Heating system – gas fired steam boiler radiant heat – since 1906, no duct work to grow bacteria, fungus or spread virus Underground electric service – no trees or ice to damage electrical lines or cause power disruption. Visually more attractive.

Fire places – the mansion has 2 fire places that were supplied with natural gas log lighters within 10 years of the mansion construction, so no ashes to remove and no residual tar build-up in flues. Wood frame structure – built of yellow pine, redwood and bald cypress - rot and insect resistant species – durable materials 2nd floor electrical wall outlet for an electric clothing iron – first in a house in the Midwest

A dumbwaiter to bring up luggage and move furniture was provided in the house from 1905 to 1982, and was discontinued after the fire of 1982.

WELL BEING

1921 Remodel to include interior finishes of hardwood floors, window treatments to maximize exterior light

Music – opportunities throughout the house basement first and third floors with phonographs and a Steinway baby grand piano added to the facility in 1921 as a birthday gift to the oldest daughter.

Library – A number of first edition prints were provided in this room, what is unique is that the light fixture in this room will not create shadows on the reading materials. The owner's daughters were understood to have read most of the books a minimum of 5 times.

Dining room – Even number of individuals at the dining room table , table cloths and cloth napkins were embroidered by Mrs. Seelye and are still in use today.

Dining room table was a multi-leaf table that accommodate up to 30 diners if relocated to the ballroom or main entry hall . Wood work in the dining room is the initial finish applied and remains attractive. The guests of the house received clean sleeping linens daily for a number of years.

Third floor ballroom – for live and recorded music for entertainment; has resilient yellow pine flooring to absorb the impact of dancer's shoes, has hard finishes and seems to amplify the volume of sound

At least three covered outdoor spaces front and rear porches and a separate Gazebo Outdoor gardens and a gold fish pond. Which has been updated with a patio in 1982.

Side hinged window insect screens in normally occupied rooms

The roof had an access opening that allows hot air to rise through the opening and draw cool air through doors and windows in the home or walk on the roof as an observation deck for orientation within Abilene.

Christmas 1906 was a large celebration for 300 guests and had been celebrated many times since. Kitchen wood burning stove -1905 to 1987, since then gas fired.

Guests stayed at the mansion for no cost – hospitality by the host and hostess

The house is Georgian Style with openness that improves attitude many windows for views. First floor has oak hardwood floors and area carpets that could be removed and cleaned as needed. Recreation - Minature bowling alley in the basement for indoor recreation

Flowers and trees – One of the original oak trees was removed in 2015 and several bowls made of the harvested wood. The house was often filled with fragant bouquets from their own gardens.


111th
Christmas
Seelye
Mansion
over 80 Christmas Trees
65 poinsettias
2015
700 nutcrackers

Part 2 –
2020 Example

KIDS #	REQUEST FOR REVIEW C.2.2.

02/11

OFFICE OF THE STATE FIRE MARSHAL

800 SW JACKSON, STE 104, TOPEKA, KS 66612
PHONE: (785) 296-3401 FAX: (785) 296-0151

If you are submitting your documents for review by OSFM, we review submitted forms in the order received. We will require 30 days to review submissions.

REQUEST FOR PROJECT REVIEW – PAGE 1 OF 2 (CHILD CARE FACILITIES WITH 24≤ CHILDREN COMPLETE PAGE 1)

DATE:	COUNTY PROJECT LOCATED:

☐ SCHOOL (K-12 and/or Colleges and Universities)	☐ HOSPITAL
☐ CHILDCARE/PRESCHOOL Total Children #: ☐ Half Day ☐ Full Day ☐ Infants Ages:	☐ AMBULATORY SURGICAL CENTER ☐ NURSING HOME
☐ DROP IN PROGRAM LESS THAN 2000 OCC.	☐ ICF/MR
☐ CORRECTIONAL/DETENTION	☐ HOSPICE
☐ MULTI-FAMILY RESIDENTIAL OVER 12,000 S.F.	☐ ASSISTED LIVING
☐ ASSEMBLY FOR 2000 OR MORE OCCUPANTS	☐ RESIDENTIAL BOARD & CARE/HOME PLUS: Clients#
☐ OTHER (list):	☐ MEDICARE ☐ Yes ☐ No MEDICAID ☐ Yes ☐ No

FACILITY INFORMATION

NAME	
STREET	
CITY	
STATE/ZIP	
PHONE NUMBER	
FAX NUMBER	

OWNER'S REPRESENTATIVE (SINGLE POINT CONTACT RESPONSIBLE FOR ALL FUTURE CORRESPONDENCE TO THIS PROJECT)

	PRIMARY	SECONDARY
NAME		
STREET		
CITY		
STATE/ZIP		
PHONE NUMBER		
FAX NUMBER		
E-MAIL ADDRESS		

TYPE OF SUBMITTAL: CODE FOOTPRINTS – REQUIRED BY STATE LAW (K.A.R. 22-1-7)

☐ NEW BUILDING	☐ TEMP. EGRESS/EXITING DURING CONSTRUCT.
☐ ADDITION TO EXISTING BUILDING	☐ LIC. AMENDMENT/NEW: KDHE ☐ KDOA ☐ SRS ☐
☐ RENOVATION/REMODELING	☐ CHANGE IN USE
☐ CHANGE OF OWNERSHIP	☐ EXISTING BUILDING CHANGE OF OCCUPANCY

OPTIONAL DOCUMENTATION AS REQUIRED BY KANSAS STATE FIRE MARSHAL IN WRITING DURING REVIEW

☐ SPRINKLER DOCUMENTS	☐ FIRE ALARM DOCUMENTS

KIDS #	REQUEST FOR REVIEW C.2.2.A

02/11

OFFICE OF THE STATE FIRE MARSHAL

800 SW JACKSON, STE 104, TOPEKA, KS 66612
PHONE: (785) 296-3401 FAX: (785) 296-0151

If you are submitting your documents for review by OSFM, we review submitted forms in the order received. We will require 30 days to review submissions.

REQUEST FOR PROJECT REVIEW – PAGE 2 OF 2 – K.A. R. 22-1-7 COMPLIANCE ATTESTATION

DATE:	FACILITY NAME:

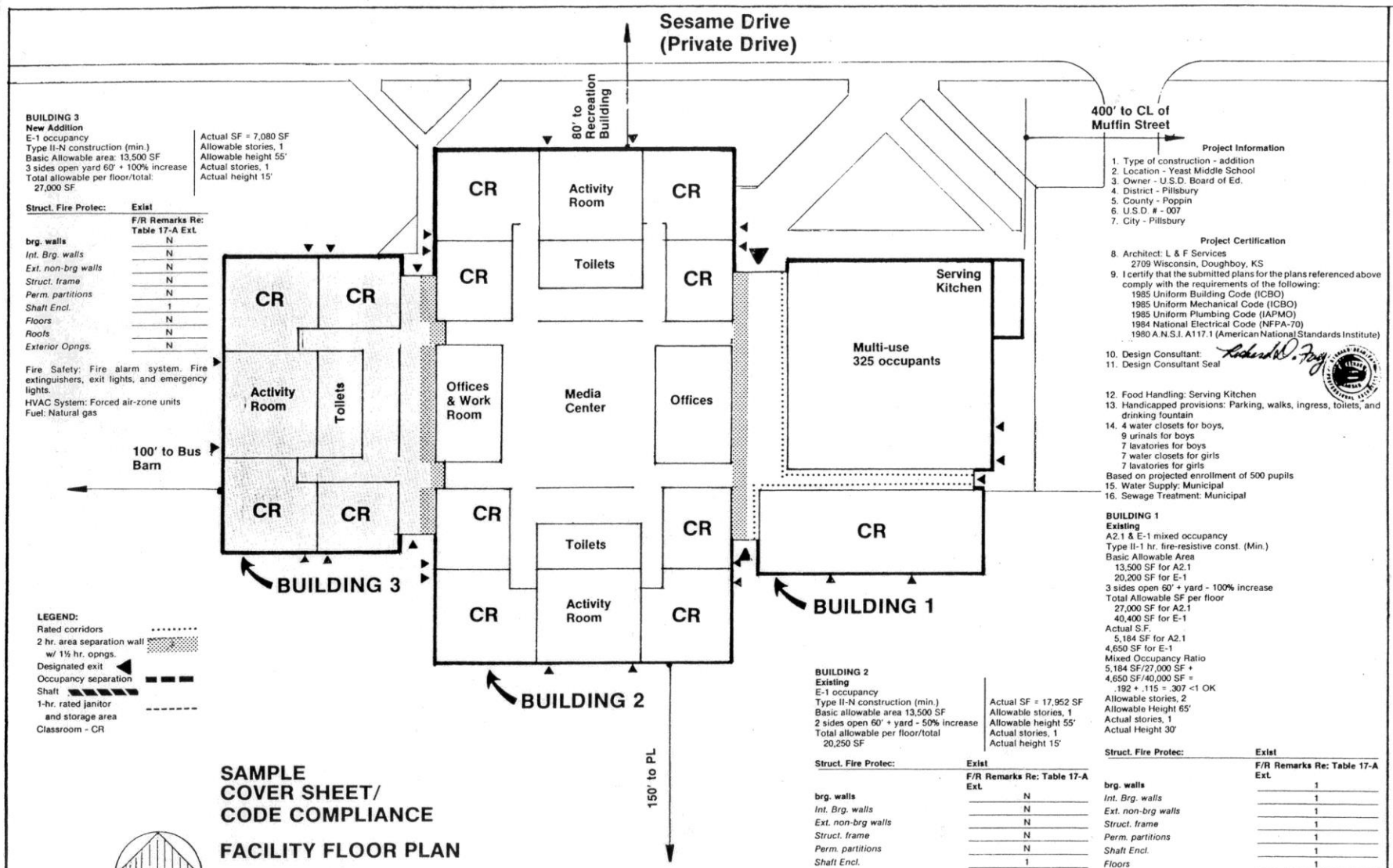
1. Design architect or engineer to check the Met column to indicate compliance to KFPC & K.A.R. 22-1-7.

Met	The following shall be provided on each code footprint:	Met	The following narrative is required on code footprints:
☐	A full size drawing (request 11 x 17 maximum)	☐	Project construction purpose: new, addition, change in use, renovation, or other
☐	Complete floor plan, including existing facilities and new construction, for each floor of the facility	☐	Reason for submittal: new construction, new licensure, certificate of occupancy, or plan of correction for existing code deficiencies
☐	An 11 inch by 17 inch (print) reduction sealed by a Kansas-licensed design professional	☐	Code or codes used (All code footprints must list the Kansas Fire Prevention Code and related statement.)
Met	**The following information is required on code footprint:**	☐	Location of any anticipated future additions
☐	Graphic bar scale	☐	Name, address, city, state, zip code, phone number, and fax number of the owner
☐	North directional indicator	☐	Date developed and any revision dates
☐	Complete building floor plan with a clear identification of new, remodeled and existing portions	☐	Name, address, city, state, zip code, phone number, and fax number of the designer
☐	All permanent partitions taller than 6 feet	☐	Designers seal (RA or PE)
☐	Label with plain text, legends for each room/ space	☐	Name of the responding fire service
☐	Occupant load of assembly rooms and total occupant load for each floor level	☐	Name of the local building inspection department
☐	Identification of openings and ratings of stair and shaft enclosures	☐	Each occupancy group and type & each room occupant load
☐	Identification of ratings of corridors and openings	☐	Type of construction
☐	Occupancy and area separations	☐	Structural code requirements, including the following:
☐	Horizontal exit arrangements, exit passageways, and smoke compartments	☐	Total floor are of each occupancy, actual and allowable
☐	Designate all required exterior exits and exit capacity	☐	Height and area limitations, actual and allowable
☐	Location of the central fire alarm control panel and any remote annunciator panels	☐	Structural fire ratings, actual and allowable
☐	Fire department connections	☐	Identification of **active** fire safety features, including:
☐	Fire department access roads and fire hydrants	☐	Type of automatic suppression systems/ locations
☐	Distances to property line and exposures	☐	Fire alarm signaling system
☐	Any special hazards or conditions	☐	Emergency lighting and power features
☐	Location of any anticipated future additions	☐	Smoke control system / extent and purpose
☐	RESERVED	☐	Water supply requirements for fire suppression
☐	RESERVED	☐	Alternative design or methods of construction, or both

CODE FOOTPRINT GRAPHIC LEGEND

Symbol	Description	Protection Elements
	Required Exit – Exterior	Exit Signs.
	Required Exit or Exit Access– Interior (Assembly over 50 & exits from floors.)	
	Fire Extinguisher	
	Fire Department Connection (FDC)	
	Standpipe	
	Hose Cabinet	
	Hose Cabinet with Extinguisher	
	Fire Extinguisher Spacing (Show radius)	Show radius.
	Non–Protected Exit Path	(Edit as necessary) [None] or [None–per exception of fully sprinklered A, B, E, F, M, S, U occupancy] or [1–2 occupancy smoke partition walls (No fire resistive wall rating). Doors limit transfer of smoke and shall have positive latching.]
P P	Limited Protected Exit Path	Automatic Smoke Detection Throughout Exit Path
	Protected Exit Path	1 hour Fire Partition wall construction. 20–minute rated door assembly. Fire & Smoke Dampers.
½ ½	Protected Exit Path (sprinklered R occupancy)	.5 hour Fire Partition wall construction. 20–minute rated door assembly. Fire & Smoke Dampers.
	Special Coverage	Limited Sprinkler Coverage
1 1	1 Hour Exit Passageway	1–hour Fire Barrier wall construction. No openings other than required exit doors. 1–Hour door assembly.
2 2	2 Hour Exit Passageway	2–hour Fire Barrier wall construction. No openings other than required exit doors. 1½–Hour door assembly.
1 1	1 Hour Exit Enclosure (vertical) (stairwell – 3 stories or less)	1–hour Fire Barrier wall construction. no openings other than required exit doors. 1–Hour door assembly.
2 2	2 Hour Exit Enclosure (vertical) (stairwell – 4 stories or more)	2–hour Fire Barrier wall construction. No openings other than required exit doors. 1½–Hour door assembly.
	1 Hour Fire Barrier (Occupancy and Incidental Use Areas)	1–hour Fire Barrier wall construction. 3/4–hour rated door assembly. Fire Dampers. (Edit Fire Damper requirement as necessary for sprinklered buildings.)
	2 Hour Fire Barrier (Occupancy)	2–hour Fire Barrier wall construction. 1 ½–hour rated door assembly. Fire Dampers.
	3 Hour Fire Barrier (Occupancy)	3–hour Fire Barrier wall construction. 3–hour rated door assembly. Fire Dampers.
	4 Hour Fire Barrier (Occupancy)	4–hour Fire Barrier wall construction. 3–hour rated door assembly. Fire Dampers.
2–2–	2 Hour Fire Wall (Building Separation)	2–hour Fire Wall construction per IBC 705. 1 ½–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
3–3–	3 Hour Fire Wall (Building Separation)	3–hour Fire Wall construction per IBC 705. 3–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
4–4–	4 Hour Fire Wall (Building Separation)	4–hour Fire Wall construction per IBC 705. 3–hour door assembly. Fire dampers when ductwork is allowed to penetrate wall.
1 1	1 Hour Shaft (3 stories or less)	1–hour Fire Barrier wall construction. 1–Hour door assembly. Fire/Smoke Dampers.
2 2	2 Hour Shaft (4 stories or more)	2–hour Fire Barrier wall construction. 1 ½–Hour door assembly. Fire/Smoke Dampers.
	Sprinklered Incidental Use Areas	Wall construction to resist the passage of smoke from floor to floor to F.R. floor/ceiling assembly. Self–or automatic closing doors with no air transfer grilles.
	Fire Partitions (dwelling/unit separation) (I–1 and R occupancies)	1–hour resistive rated walls. ¾–hour rated door assembly. Fire Damper
	Smoke Barriers (1–2 and 1–3 occupancies)	1–hour resistive rated walls. 20–minute door assembly. Smoke Damper
198/39.6" / 68"	Accumulated exit width at required exit (clear width)	Occupants / Required width Provided width
	Public Fire Hydrant (show distance from building)	
Conf/A3 / 65	Room Designation	Room type / Occupancy type Maximum Allowable occupants
40 80 140	Show accumulated occupant loads for complex exit paths (when applicable)	
	Other Symbols as required.	

1988 Example



BUILDING 3
New Addition
E-1 occupancy
Type II-N construction (min.)
Basic Allowable area: 13,500 SF
3 sides open yard 60' + 100% increase
Total allowable per floor/total:
27,000 SF

Actual SF = 7,080 SF
Allowable stories, 1
Allowable height 55'
Actual stories, 1
Actual height 15'

Struct. Fire Protec:	Exist F/R Remarks Re: Table 17-A Ext.
brg. walls	N
Int. Brg. walls	N
Ext. non-brg walls	N
Struct. frame	N
Perm. partitions	N
Shaft Encl.	1
Floors	N
Roofs	N
Exterior Opngs.	N

Fire Safety: Fire alarm system. Fire extinguishers, exit lights, and emergency lights.
HVAC System: Forced air-zone units
Fuel: Natural gas

LEGEND:
Rated corridors
2 hr. area separation wall w/ 1½ hr. opngs.
Designated exit
Occupancy separation
Shaft
1-hr. rated janitor and storage area
Classroom - CR

BUILDING 2
Existing
E-1 occupancy
Type II-N construction (min.)
Basic allowable area 13,500 SF
2 sides open 60' + yard - 50% increase
Total allowable per floor/total
20,250 SF

Actual SF = 17,952 SF
Allowable stories, 1
Allowable height 55'
Actual stories, 1
Actual height 15'

Struct. Fire Protec:	Exist F/R Remarks Re: Table 17-A Ext.
brg. walls	N
Int. Brg. walls	N
Ext. non-brg walls	N
Struct. frame	N
Perm. partitions	N
Shaft Encl.	1
Floors	N
Roofs	N
Exterior Opngs.	N

Fire Safety: Fire alarm system. Fire extinguishers, smoke detector, exit lights, and emergency lights.
HVAC System: Forced air-zone units
Fuel: Natural gas

Project Information
1. Type of construction - addition
2. Location - Yeast Middle School
3. Owner - U.S.D. Board of Ed.
4. District - Pillsbury
5. County - Poppin
6. U.S.D. # - 007
7. City - Pillsbury

Project Certification
8. Architect: L & F Services
2709 Wisconsin, Doughboy, KS
9. I certify that the submitted plans for the plans referenced above comply with the requirements of the following:
1985 Uniform Building Code (ICBO)
1985 Uniform Mechanical Code (ICBO)
1985 Uniform Plumbing Code (IAPMO)
1984 National Electrical Code (NFPA-70)
1980 A.N.S.I. A117.1 (American National Standards Institute)
10. Design Consultant:
11. Design Consultant Seal
12. Food Handling: Serving Kitchen
13. Handicapped provisions: Parking, walks, ingress, toilets, and drinking fountain
14. 4 water closets for boys,
9 urinals for boys
7 lavatories for boys
7 water closets for girls
7 lavatories for girls
Based on projected enrollment of 500 pupils
15. Water Supply: Municipal
16. Sewage Treatment: Municipal

BUILDING 1
Existing
A2.1 & E-1 mixed occupancy
Type II-1 hr. fire-resistive const. (Min.)
Basic Allowable Area
13,500 SF for A2.1
20,200 SF for E-1
3 sides open 60' + yard - 100% increase
Total Allowable SF per floor
27,000 SF for A2.1
40,400 SF for E-1
Actual S.F.
5,184 SF for A2.1
4,650 SF for E-1
Mixed Occupancy Ratio
5,184 SF/27,000 SF +
4,650 SF/40,000 SF =
.192 + .115 = .307 <1 OK
Allowable stories, 2
Allowable Height 65'
Actual stories, 1
Actual Height 30'

Struct. Fire Protec:	Exist F/R Remarks Re: Table 17-A Ext.
brg. walls	1
Int. Brg. walls	1
Ext. non-brg walls	1
Struct. frame	1
Perm. partitions	1
Shaft Encl.	1
Floors	1
Roofs	1 See Sec. 602
Exterior Opngs.	1

Fire Safety: Fire alarm system. Fire extinguishers, exit lights, and emergency lights.
HVAC System: Forced air-zone units
Fuel: Natural gas

SAMPLE COVER SHEET/ CODE COMPLIANCE FACILITY FLOOR PLAN

L & F Services
Architects & Environmental Planners

A NEW CLASSROOM ADDITION For YEAST MIDDLE SCHOOL — USD 007, Pillsbury, Kansas

2020 Example

Code Footprint, is required in Kansas by the Kansas Fire Prevention Code. It is used as an option by local building and fire authorities to achieve a stand alone document combining written & graphic descriptions of major elements found on a certificate of occupancy including exit strategy, fire alarm and automatic fire sprinkler projects for all commercial construction projects in Kansas that involve new construction including commercial – new structures, building additions, renovations and changes in occupancy.

KANSAS ADMINISTRATIVE REGULATION 22-1-7

NARRATIVE:

(1) project construction purpose: renovation and change in use from A-2 & A-3 to A-3 (Place of Worship)
(2)reason for submittal: new construction, & certificate of occupancy
(3) applicable codes used; 2012 International Building Code, 2012 International Fire Code, 2012 International Mechanical Cod, 2011 NFPA 70, National Electrical Code 2012 Uniform Plumbing Code, and the Kansas Fire Prevention Code. (The Kansas Fire Prevention Code for occupied buildings can be summarized as: **1)** No structure new or existing are permitted to have distinctly hazardous conditions; **2)** alterations to existing buildings cannot make a distinctly hazardous condition; and **3)** New construction is held to higher standards than existing construction. Note: Compliance to the 2010 Americans with Disability Act is not mandatory in facilities of religious worship, but has provided a standard for best practice accessibility.
(4) facility address: 624 Broadway Street, Salina, KS 67401 Saline Co.
5) owner: Revolution Church, West North Street, Salina, KS 67401
(6) see the date developed and revision dates:
(7) responsible design profession for this document, Richard Fay, architect, 216 NE 8th, Abilene, KS 67410
(8) see designer's seal (RA);
(9) responding fire service; **Salina Fire Department**
(10) local building inspection department, **Salina Building Services;**
(11) each occupancy group and type:: A-3 and accessory to A-3
(12) type of construction; V-B (confirmed by previous Certificate of Occupancy).
(13) structural code requirements, including the following:
(A) total floor area occupancy, both actual & allowable; Actual square footage—25,200 square feet, Area allowable = Basic allowable area + open yard increase—(area frontage/perimeter—0.25)W/30 + sprinkler increase or 6,000 sq. ft + 2,400 sq. ft. + 18,000 sq. ft.(one story building) = 26,400 sq. ft. allowable square footrage. ((346 ln.ft./528 ln. ft. = .65) (.65-.25) = .4 x 30/30 = (.4) .4 x 6,000 sq. ft. = 2,400 sq. ft.
(B) height & area limitations, both actual and allowable; Actual, one story & 25 feet or less. Allowable, one story & 40 feet allowable (Table 503).
(14) active fire safety features:
(A) REQUIRED AND PROVIDED: NFPA 13, Fire sprinkler system (2012 IBC Section 903.1.2.3 & In lieu of the one hour fire resistive corridor required in Table 1018.1, provide a required NFPA 13 compliant automatic fire sprinkler system throughout the building) Light hazard or quick response sprinklers are required.
(B) fire alarm signaling system; **REQUIRED AND PROVIDED:** NFPA 72, Fire alarm system (2012 IBC Section 907.2.1 installed in all Group A with non-separated occupant load of 300)
(C) emergency lighting from dual head emergency lighting packs throughout exit paths; and
(D) smoke control system– NOT REQUIRED;
(15) existing water supply for sprinkler system will have to be evaluated by the fire sprinkler contractor for compliance;
(16) no alternative design methods planned.

PROJECT NOTES:

Per 2012 IBC Section 105.2, the following items are expected to comply with Salina adopted standards but are exempt from a building permit: Painting, papering, tiling, carpeting, cabinets, countertops and similar finish work; furniture; communications equipment, sound & video equipment.

PREVIOUSLY SUBMITTED AND APPROVED PLANS

Permit Number 19-1806, Remodeling Plans prepared and sealed by Engineering Consultants, Hutchinson Kansas to indicate level of demolition and installation of an exterior door to facilitate clearing the existing building for future construction.

ALL DEFERRED DOCUMENTS SHALL BE SUBMITTED TO BUILDING SERVICES

In Compliance with Section 107.3.4.1, the following deferred submittals for this project INCLUDE:

SALINA FIRE DEPARTMENT

- Address configuration & location
- KNOX BOX (FIRE DEPARTMENT)
- FIRE ALARM REGISTRATION
- SUPPRESSION PLANS (OTHER) | 2012 IFC 904: Submit three (3) sets of fire suppression system plans and manufacturer specifications sheets, stamped by a minimum Level III NICET designer or sealed by an engineer, for review and approval prior to installation of equipment.
- FIRE ALARM SYSTEM PLANS | 2007 NFPA 72, 2012 IFC 901.2, 907.1.1 & 907.1.2: Submit three (3) sets of fire alarm plans, stamped by a minimum Level III NICET designer or sealed by an engineer, for review and approval prior to installation (or remodel) of equipment. A copy of the approved plans must be onsite for inspection.

SALINA BUILDING DEPARTMENT

- All deferred submittals to the City of Salina, shall be reviewed by the designated responsible design professional for the project, approved and forwarded to the City of Salina for review and approval as a package submittal. Submit manufacturer's cut sheets for wall construction, handrails & guardrails, plumbing fixtures and grab bars, lighting fixtures, mechanical equipment.
- TECHNICAL PROFESSIONS SEAL REQUIRED | KANSAS STATUTE 74-7038: Submit required engineer sealed drawings and load calculations for electrical, plumbing, and HVAC systems.
  - Note A: All electrical distribution is required to be in rigid conduit based on 2011 NEC Section 518.4
  - Note B: Emergency exit lighting throughout the exit paths of occupants shall be placed to provide 1 foot candle of illumination minimum at the floor level of the exit paths.
  - Note C: Exit signs shall be provided at exit doors, exit access doors and at locations where the required exit path is not clear.

Sanitary Fixture Count based on occupant load modified from the 2012 IBC Section 1004.1.2 Exception and the 2012 UPC Table 422.1

For reduced occupant load of 1,000

	Water closets provided	Water Closets required	Lavatories provided	Lavatories required	Urinals provided	Urinals required	Drinking Fountains recommended
400 men	3	3	3	3	3	3	4
400 women	9	8	4	4	-	-	
200 Uni-sex	4	-	4	-	-	-	

Revolution Church, BIC
624 South Broadway
Salina, KS 67410

example

EXTERIOR EXIT TABLE

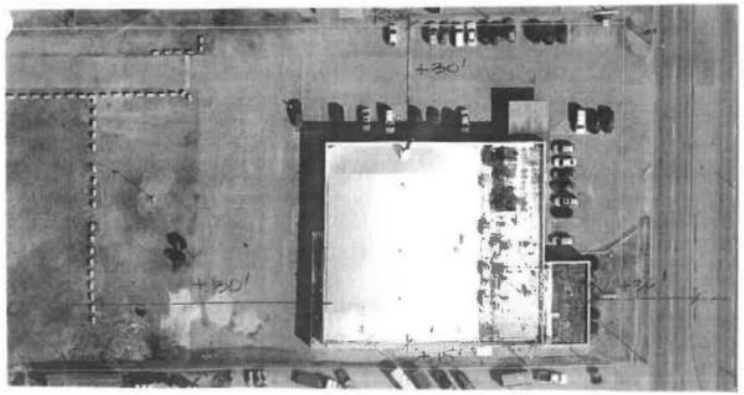
CALCULATIONS

NOTES:

IN BUILDINGS WITH A-3 OCCUPANCY PROTECTED THROUGHOUT WITH AUTOMATIC FIRE SPRINKLERS THE MINIMUM DOOR WIDTH OF 32 INCH CLEAR WIDTH HAS AN EXIT CAPACITY OF 213 OCCUPANTS BASED ON 2012 IBC SECTION 1005.3.2 EXCEPTION (.15 PER OCCUPANT)

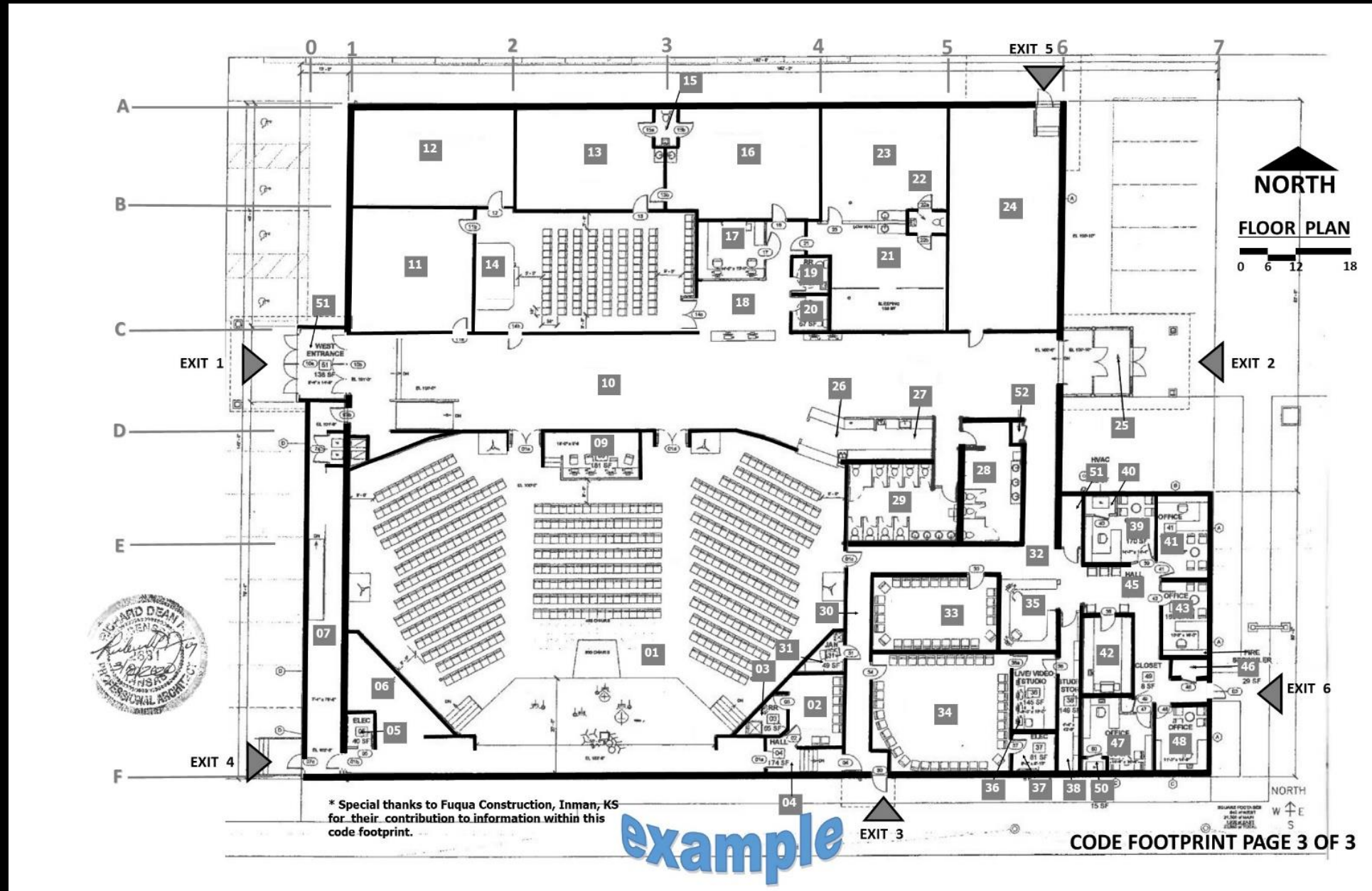
PER SECTION 1005.5, THE LOSS OF ONE EXIT SHALL NOT REDUCE THE AVAILABLE CAPACITY TO LESS THAN 50 PERCENT OF REQUIRED EXIT.

EXIT #	MINIMUM CLEAR WIDTH REQUIRED	MINIMUM CLEAR EXIT WIDTH PROVIDED AT DOOR	EXIT CAPACITY PROVIDED	DOOR SWINGS IN DIRECTION OF EXIT AND EQUIPPED WITH PANIC HARDWARE REQUIRED	SPECIAL SIGNAGE LISTED ABOVE REQUIRED	LEVEL DOOR LANDING EACH SIDE OF DOOR MINIMUM WIDTH OF DOOR
1	64	108	852	YES	YES, IF EQUIPPED WITH KEY LOCKING DEADBOLT	YES
2	64	64	426	YES	NO	YES
3	32	32	213	YES	NO	YES
4	32	32	213	YES	NO	YES
5	32	32	213	YES	NO	YES
6	32	32	213	YES	NO	YES



Room #	Room use	Square footage	Occupant load factor 1004.1.2	Number of occupants	Number of exits required	Number of exits provided
01	Sanctuary	6032	Actual chairs	508 (474 + 4 + 50)	3	4
02	Green Room	178	average	15	1	1
03	Restroom	55	-	-	1	1
04	Hall	174	-	-	1	1
05	Electrical equip	40	-	-	1	1
06	Storage	428	100	-	1	1
07	Hall	580	-	-	1	1
08	RESERVED					
09	Sound Booth	181	stations	4	1	1
10	Foyer -Narthex	2982	7	426	2	2
11	5th- 6th	648	20	32	1	1
12	3rd-4th	665	20	33	1	1
13	K – Second	630	20	31	1	1
14	Gathering	1129	7	161	2	2
15	RR	36	-	-	1	1
16	Preschool	700	35	20	1	1
17	Office	168	100	2	1	1
18	Check-in	311	5	-	1	1
19	RR	57	-	-	1	1
20	RR	57	-	-	1	1
21	Infants	548	20	28	2	1
22	RR	36	-		1	1
23	Toddlers	595	20	30	2	1
24	Classroom	1066	20	53	2	2
25	East Entrance	169	-	-	-	-
26	RESERVED					
27	RESERVED					
28	Men's RR	298	-	-	1	1
29	Women's RR	346	-	-	1	1
30	Hall	262	-	-	2	2
31	Janitor	49	1	1	1	1
32	Hall	426	-	-	2	2
33	Conference Room	415	7	60	2	1*
34	Classroom	696	20	35	1	1
35	Reception	185	100	2	1	1
36	Video Studio	145	100	2	1	1
37	Electric equipment	81	100	1	1	1
38	Studio Storage	149	100	1	1	1
39	Storage	77	100	1	1	1
40	HVAC	32	100	1	1	1
41	Office	223	100	2	1	1
42	Workroom	161	100	2	1	1
43	Office	146	100	3	1	1
44	RESERVED					
45	Hall	357	-	-	2	2
46	Fire Sprinkler	31	-	-	1	1
47	Office	208	100	2	1	1
48	Office	169	100	2	1	1
49	Storage	49	100	1	1	1
50	HVAC	15	-	-	1	1
51	West Entrance	138	-	-	-	-
52	Storage	10	100	1	1	1
	BLDG MAX. TOTAL			1460		

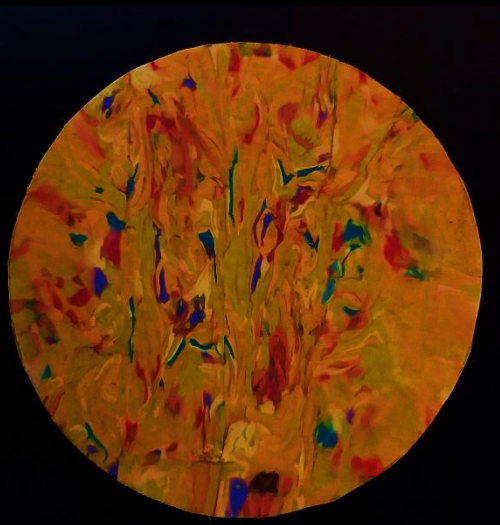
example



* Special thanks to Fuqua Construction, Inman, KS for their contribution to information within this code footprint.

CODE FOOTPRINT PAGE 3 OF 3

Code footprint is better than a statewide building code because it only focuses on the sections of code applied to a specific location.



Part 3

Case studies where code footprint has been used other than new construction

- **In existing buildings**
  document deviations of codes
- **Compensatory measures – (KFPC)**
- **Plans of correction**
- **Reference for future fire inspections**