



CITY OF ST. JOSEPH

1100 Frederick, Room 107, St. Joseph, MO 64501
(816) 271-4751 Fax (816) 271-4676

June 30, 2009

Architectural/Engineering Firms,
Builders and Developers
doing Business in
the City of St. Joseph

Dear Design Professional, Builder or Developer,

Enclosed please find the City of St Joseph's revised copy of the Code Footprint requirements based on comments we received since our original notice on April 6, 2009. These requirements will go into effect, Wednesday, July 1st, 2009. A sample Code Footprint has been included for you information.

As previously stated, a Code Footprint is a design professional's written and graphic description of the intended life safety features in a building. We are primarily concerned with facilities for the very young, the very old, the sick, those incarcerated, large assemblies and large multi-family residential facilities because these are vulnerable occupancies. Architects, engineers and building and fire code officials share the responsibility for providing objective evaluation of the life safety features of newly constructed/renovated buildings and additions. Building owners and operators must work together with these individuals to provide life safety choices that best suit their circumstances at the outset of construction, thereby reducing enforcement intervention after construction has begun. We believe it will simplify review efforts that are done with limited resources and assist field inspectors in verifying completion of life safety features that have been approved on paper. A Code Footprint is a simple record of the designer's life safety features, and it is a fixed code target for the life of the building.

The City of St. Joseph is making an effort to capitalize on the effectiveness of plan review to ensure a higher degree of quality in new construction. Architects generate building designs to protect occupant safety and well being, but much of the code criteria used to design and construct a building is not formally recorded. Coherent code inspections of plan submittals are therefore very difficult. To make such a review of specific code criteria practical, the Code Footprint was developed. It will provide a snapshot of key code information within a small scale building plan and short narrative. The Code Footprint will limit redundancy and increase the coordination between all participants involved with the project.



Code Footprint Requirement

Mandatory as of July 1, 2009

1. Requirement:

- a "Code footprint" shall mean a building and life safety code compliance document that contains both graphic and narrative information and that meets the requirements of this policy.
- b Each code footprint shall be submitted with the full size set of plans and on 11-inch by 17-inch reductions of the full-sized drawing (3 sets) consisting of a complete floor plan, including existing facilities and new construction, for each floor of the facility, including basements and mezzanines, and sealed by a Missouri-licensed design professional. The code footprint shall also be submitted in pdf format on compact disc.
- c A code footprint shall be prepared for all new buildings, new building additions, changes in occupancy, and building renovations, with the exception of buildings used solely as dwelling houses containing no more than two families and as exempted under paragraph d herein below. Each code footprint shall be prepared by a Missouri-licensed design professional.
- d A code footprint shall be submitted to the Building Development Section of the Customer Assistance Department of the City of St. Joseph for review and approval for the following types of buildings:
 - (1) Any group A assembly occupancy having a combined occupant load in excess of 2,000 persons;
 - (2) Any group B business occupancy used at any community college, area vocational school, vocational-technical school, technical college, or any institution of higher learning;
 - (3) Any group A assembly occupancy mixed with a group E educational occupancy or a group I institutional occupancy;
 - (4) Any group E educational occupancy, including any day care facility for more than 24 persons;
 - (5) Any group I institutional occupancy, including any state, county or other governmental entity's detention facilities, and any occupancy physically attached to a group I occupancy regardless of fire barrier separation;
 - (6) Any group M mercantile occupancy that is three or more stories in height, including basements, or more than 12,000 square feet in area;
 - (7) Any group R-1 or R-2 residential occupancy that is three or more stories in height, including basements, or more than 12,000 square feet in area, and
 - (8) Any R-4 residential occupancy.

2. The following graphic information shall be required on all code footprints submitted:

- a A graphic bar scale;
- b A north directional indicator;
- c A complete building floor plan for each floor, with a clear identification of new, remodeled, and existing portions;
- d Identification of all permanent partitions taller than six feet;
- e Identification of all egress routes with travel distance;
- f A label with plain text, keynotes, or legends for each room and space;
- g The occupant load of assembly rooms and total occupant load for each floor level;
- h Identification of openings and ratings of stair and shaft enclosures;
- i Identification of openings and ratings of corridors and openings;
- j Identification of occupancy and area separations;
- k Identification of all horizontal exit arrangements, exit passageways, and smoke compartments;
- l Identification of all required exterior exits and exit capacity;
- m The location of the central fire alarm control panel and any remote annunciator panels;
- n The location of each fire department supply connection;
- o The location of fire department access roads;
- p The location, water main size and distance to all surrounding fire hydrants, both public and private;
- q All utility locations and shut offs;
- r The location of any known Haz Mat storage areas;
- s The distances to property line and exposures;
- t Identification of any special hazards or conditions; and
- u The location of any anticipated future additions.

3. The following narrative information shall be required on all code footprints submitted:

- a The project construction purpose: new, addition, change in use, renovation, or other;
- b The reason for submittal: new construction, new licensure, certificate of occupancy, or plan of correction for existing code deficiencies;
- c The code or codes used;
- d The street address, city, state, and zip code of the building;

- e The name, address, city, state, zip code, phone number, and fax number of the owner;
- f The date developed and any revision dates;
- g The name, address, city, state, zip code, phone number, and fax number of the designer;
- h The designer's seal (RA or PE);
- i Each occupancy group and type;
- j The type of construction;
- k The structural code requirements, including the following:
 - (1) The total floor area of each occupancy, both actual and allowable;
 - (2) Height and area limitations, both actual and allowable; and
 - (3) Structural fire ratings, both actual and allowable;
- l Identification of active fire safety features, including the following:
 - (1) The type of automatic suppression systems and locations;
 - (2) The fire alarm signaling system;
 - (3) Emergency lighting and power features; and
 - (4) The smoke control system;
- m Water supply requirements of the facility for fire suppression;
- n Adjacent fire hydrant sizes, date last flow tested and flow test results; and
- o Alternative methods of design or construction, or both.

GENERAL INFORMATION
LOCATION: Burge Union University of Kansas
 1601 Irving Hill Road Lawrence, KS 66045 68200/00158

AGENCY INFORMATION: University of Kansas
 Lawrence, Kansas 66045

RESPONDING FIRE DEPARTMENT: Lawrence Fire Department

REASON FOR SUBMITTAL: ???

AUTHORITIES HAVING JURISDICTION: Department of Facilities Management
 Kansas State Fire Marshal's Office

PROJECT DESCRIPTION
 Per this project, ???

APPLICABLE CODES - UNIVERSITY OF KANSAS
 Slate Law establishes a minimum Life Safety and has a uniform effect throughout the State. KSA 31-133 and KSA 2003 Supp. 31-134 require that all occupied structures conform to the basic life safety requirements: A) Existing occupied buildings cannot have hazardous conditions which slow speedy exits. B) Alteration of existing buildings cannot make existing conditions worse or block exits. C) New construction and changes in use are subject to greater life safety requirements.

2003 - International Building Code
 2003 - International Mechanical Code
 2003 - International Plumbing Code
 2003 - International Fuel Gas Code
 2003 - International Electrical Code
 2003 - International Fire Code
 Kansas Fire Prevention Code
 1991 - ADAAG

CODES/REGS. UTILIZED IN DESIGN: 2003 IBC; The current version of Kansas Statute 31-150 only recognizes the 2003 Edition of the (IBC), International Building Code, as the standard for school construction. Statute defines college and university buildings as schools. The Kansas State Fire Marshal will accept compliant design and construction per the 2003 IBC via the 2000 IBC 104.1.1 ALTERNATE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION.

OCCUPANCY/ STRUCTURAL CLASSIFICATION
 The building has three stories. The floor to floor dimension is 12'-0". The primary structure is constructed of concrete columns and beams. Exterior walls are constructed of concrete block and brick. Floors are constructed of reinforced concrete slabs. The interior walls are constructed of various materials including concrete, CMU, brick, and gyp. bd. and metal studs.

BUILDING HEIGHTS AND AREAS
 Basic Allowable Section 503
 Type B Occupancy - 11 stories not to exceed 160'-0" above grade, unlimited s.f.

Actual Gross Square Footage:
 48,250 GSF, 3 story; total building height 24' above grade

OCCUPANCY TYPE
 B Business Group
 A Assembly Group

GENERAL BUILDING LIMITATIONS
 Construction Type IB Section 602

STRUCTURAL FIRE RATINGS
 Table 601

Structural frame including columns, girders & trusses: 2 hr.
 Bearing exterior walls: 2 hr.
 Bearing interior walls: 2 hr.
 Nonbearing exterior walls & partitions: 1 hr.
 Nonbearing interior walls & partitions: 0 hr.
 Floor construction including supporting beams & joists: 2 hr.
 Roof construction including supporting beams & joists: 1 hr.

ACTIVE LIFE SAFETY SYSTEMS:
 Fire Alarm: Required/Provided: Manual Simplex Zone System
 FACP: Required/Provided: To KU911 - Wire
 Remote Annunciator Panel: Required/Provided: East Entrance - Main Floor
 Smoke Detection: Required/Provided: Ducts, Storage, Door Holds
 Exit Signs: Required/Provided: Internal Battery Backup
 Emergency Lights: Required/Provided: Self Contained Battery Packs
 Backup Power: Not Required/Not Provided
 Suppression-Standpipes: Required/Provided: Hose Cabinets
 Suppression-Automatic: Required/Provided: Basement Only Per Original Code
 Fire Extinguishers: Required/Provided: Per NFPA 10

PASSIVE LIFE SAFETY SYSTEMS:
 Corridor ratings: Required/Provided: 1 hour
 Stairwells: Required/Provided: Exits to Exterior on All Levels

SPECIAL AGREEMENTS
 Allow 3 story stair as previously accepted by original design. Separation is provided at basement. Current agreement per 2004 Plan of Correction to allow condition by providing corridor smoke detection throughout facility when future fire alarm system is installed.

OWNER DATE
 KSFM DATE
 DFM CODE COMPLIANCE COORDINATOR DATE

SYMBOL	DESCRIPTION	PROTECTIVE ELEMENTS
	EXIT - EXTERIOR	
	EXIT - INTERIOR (ASSEMBLY OCCUPANCIES OVER 50 - ECI)	
	FIRE EXTINGUISHER	
	HOSE CABINET	
	HOSE CABINET WITH EXTINGUISHER	
	FIRE EXTINGUISHER SPACING (SHOW RADIUS)	
	NON PROTECTED EXIT PATH	NONE
	LIMITED PROTECTED EXIT PATH	AUTOMATIC SMOKE DETECTION, THROUGHOUT EXIT PATH.
	PROTECTED EXIT PATH	1 HOUR F.R. WALL CONSTRUCTION, 20 MIN. RATED DOOR ASSEMBLIES, FIRE & SMOKE DAMPERS.
	SPECIAL COVERAGE	LIMITED SPRINKLER COVERAGE.
	1 HOUR EXIT PASSAGEWAY	1 HOUR F.R. WALL CONSTRUCTION, NO OPENINGS OTHER THAN REQUIRED EXIT DOORS, 1 HOUR DOOR ASSEMBLIES.
	2 HOUR EXIT PASSAGEWAY	2 HOUR F.R. WALL CONSTRUCTION, NO OPENINGS OTHER THAN REQUIRED EXIT DOORS, 1 1/2 HOUR DOOR ASSEMBLIES.
	1 HOUR EXIT ENCLOSURE (STARWELL - 3 STORIES)	NO OPENINGS OTHER THAN REQUIRED EXIT DOORS, 1 HOUR DOOR ASSEMBLIES.
	2 HOUR EXIT ENCLOSURE (STARWELL - 4 STORIES OR MORE)	NO OPENINGS OTHER THAN REQUIRED EXIT DOORS, 1 1/2 HOUR DOOR ASSEMBLIES.
	NEW CONSTRUCTION	
	EXISTING CONSTRUCTION	
	1 HOUR SEPARATION (OCCUPANCY SEPARATION)	1 HOUR F.R. WALL CONSTRUCTION, 1 HOUR RATED DOOR ASSEMBLIES, FIRE & SMOKE DAMPERS.
	2 HOUR SEPARATION (OCCUPANCY SEPARATION)	2 HOUR F.R. WALL CONSTRUCTION, 1 1/2 HOUR RATED DOOR ASSEMBLIES, FIRE & SMOKE DAMPERS.
	3 HOUR SEPARATION (OCCUPANCY SEPARATION)	3 HOUR F.R. WALL CONSTRUCTION, 3 HOUR RATED DOOR ASSEMBLIES, FIRE & SMOKE DAMPERS.
	4 HOUR SEPARATION (OCCUPANCY SEPARATION)	4 HOUR F.R. WALL CONSTRUCTION, NO OPENINGS.
	195' x 9.6' UNCALCULATED EXIT WIDTH AT UNCALCULATED EXIT	<u>OCCUPANTS / REQUIRED WIDTH</u> PROVIDED WIDTH
	PUBLIC FIRE HYDRANT (SHOW DISTANCE FROM BUILDING)	
	ROOM DESIGNATION - ASSEMBLY OCCUPANCY ONLY (OVER 50 MUST BE POSTED)	<u>ROOM TYPE / OCCUPANCY TYPE</u> MAX. ALLOWABLE OCCUPANTS
	SHOW ACCUMULATED OCCUPANT LOADS FOR COMPLEX EXIT PATHS (WHEN APPLICABLE)	

WATER SUPPLY - FLOW TESTS:
 Static: Date:
 Residual: Location:
 Flow:
 * Original system installed in 1979, specific information unknown

IMPORTANT
 ANY DEVIATIONS FROM THIS DOCUMENT MAY RESULT IN THE DELAY OF ISSUING THE CERTIFICATE OF OCCUPANCY. CHANGES AFFECTING THIS CODE FOOTPRINT SHALL BE DOCUMENTED BY THE CONSULTANT AND APPROVED BY THE AHJ.

DESIGN & CONSTRUCTION MANAGEMENT
 THE UNIVERSITY OF KANSAS
 1248 WEST CAMPUS ROAD #114
 LAWRENCE, KANSAS
 66045-7905
 TELEPHONE (785) 864-3431

DCM PROJECT #
 PPMR# ???????
 A-????????
 PROJECT TYPE:
 APPROVED BY:

DEPARTMENT OF ADMINISTRATION
 DIVISION OF FACILITIES MANAGEMENT
 900 SW JACKSON, SUITE 100
 TOPEKA, KANSAS 66612-1220
 TELE 785-296-8899
 FAX 785-296-8888

THE UNIVERSITY OF KANSAS
 PROJECT TITLE
 PROJECT NAME
 BLDG# 68200-007???

DATE: _____ CHECKED BY: _____ REV: _____ DRAWN BY: _____

CF1 1 of 1
 ORIGINAL CONTRACT DOCUMENTS

THE UNIVERSITY OF KANSAS
PROJECT TITLE
PROJECT NAME
BLDG# 68200-00777

DATE: _____
DRAWN BY: _____
CHECKED BY: _____
REV: _____

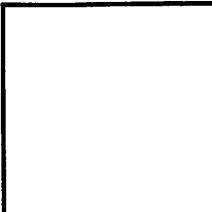
DEPARTMENT OF ADMINISTRATION
DIVISION OF FACILITIES MANAGEMENT
900 SW JACKSON, SUITE 100
TOPEKA, KANSAS 66612-1220
TELE 785-296-4899
FAX 785-296-8888

CCR# PENDING

DCM PROJECT #
PPMR# 7777777
A-777777777
PROJECT TYPE:

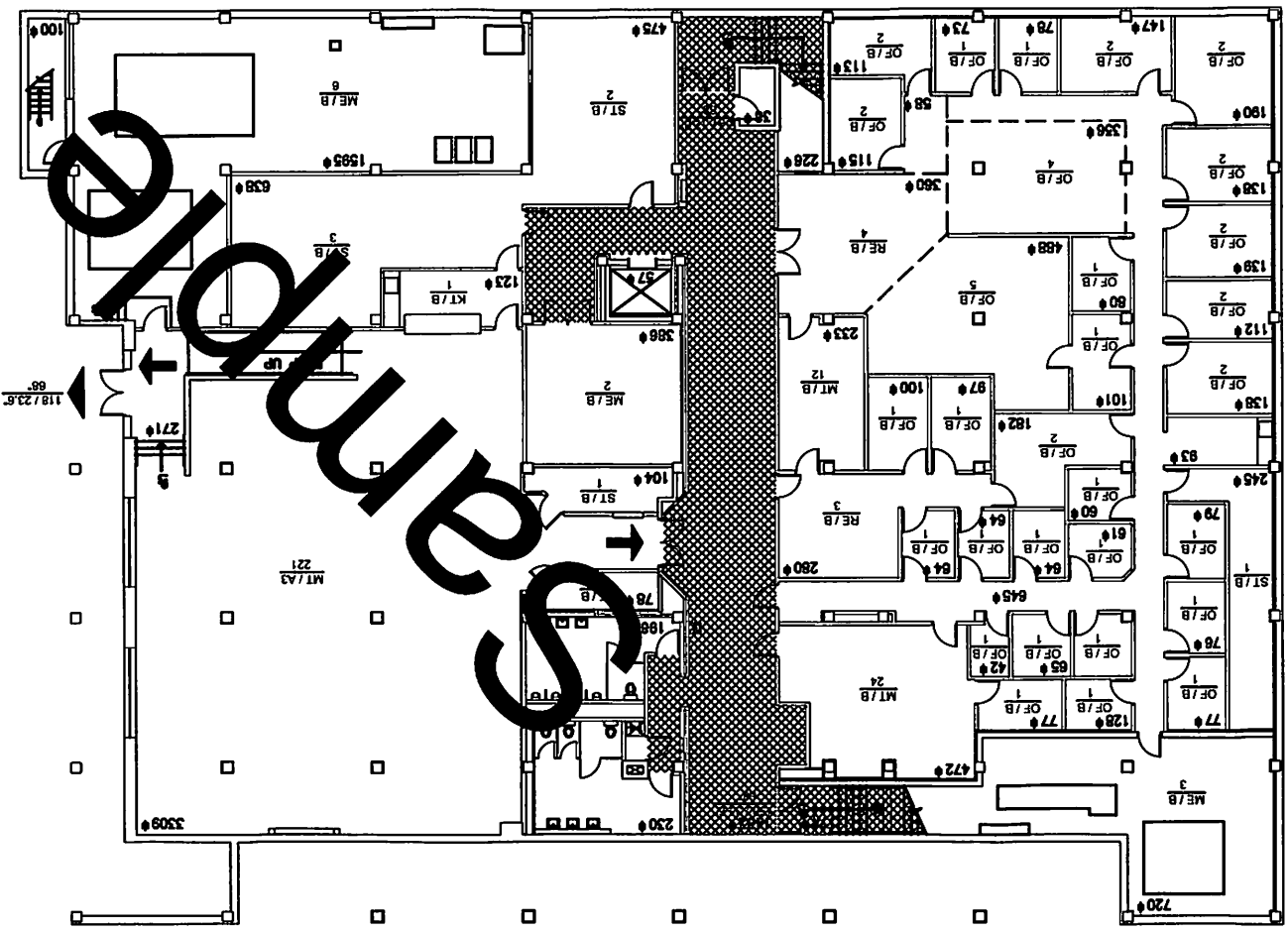
APPROVED BY:

DESIGN & CONSTRUCTION MANAGEMENT
THE UNIVERSITY OF KANSAS
1248 WEST CAMPUS ROAD #114
LAWRENCE, KANSAS
68045-7595
TELEPHONE (785) 864-3431



1st FLOOR PLAN
SCALE: 1/8" = 1'-0"
0' 10' 20' 40'

ABBREVIATION NOTES:
RT - MECHANICAL
ME - MECHANICAL
RE - RECEPTION
OF - OFFICE
ST - STORAGE



DESIGN & CONSTRUCTION MANAGEMENT THE UNIVERSITY OF KANSAS 1246 WEST CAMPUS ROAD #114 LAWRENCE, KANSAS 66045-7505 TELEPHONE (785) 864-3431	APPROVED BY: PROJECT TYPE: PPMR# 222222 A-2222222222	CCR# PENDING DEPARTMENT OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT 800 SW JACKSON, SUITE 100 TOPEKA, KANSAS 66612-1220 TELE 785-296-8899 FAX 785-296-8898	DATE: DRAWN BY: CHECKED BY: REV: PROJECT NAME BLDG# 68200-00777 PROJECT TITLE THE UNIVERSITY OF KANSAS	CF3 3 of 4 ORIGINAL CONTRACT DOCUMENTS
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