CODES AND REGULATORY AGENCIES

Introduction

The University of Michigan is a State of Michigan constitutional corporation, governed by a Board of Regents elected by the People of the State of Michigan and has a great deal of regulatory autonomy. It is exempt from local building and zoning ordinances and subject to State of Michigan laws and regulations that are clearly intended to apply to universities. In lieu of local building ordinances and State of Michigan laws and regulations that do not apply at the University, the University chooses to require that new construction adhere to a number of well-established building codes and standards, as listed in this Section.

Regardless of origin or enforcing agency, all of the applicable building codes and standards listed and codes and standards referenced within the codes listed below are to be followed. Note, for instance, that compliance with the State of Michigan Bureau of Fire Safety rules for schools and/or dormitories does not eliminate the need to also comply with the Michigan Building Code, and that compliance with the 2010 Americans with Disabilities Act does not eliminate the need to comply with the barrier free provisions of the Michigan Building Code. Additional codes may apply for particular situations, such as for Medical Center construction; these are to be considered on the case-to-case basis. Many times adherence to narrow scope codes and/or standards is required by the general codes listed below.

New editions of building codes are published from time to time. For each project, the edition of building codes cited in this section form which the University of Michigan is listed as the “Enforcing Agency” is to be as follows:

The edition of building codes is to be as listed in this section as of the beginning of the design development phase of a project unless construction documents are submitted to the University for final review more than a year after adoption of the new version of the code. If more than one year has transpired between adoption of the new code and submission of construction documents to the University for final review, the edition of the building codes listed in this section as of submission of construction documents applies.

The University employs building inspectors, who are the authority having jurisdiction on all University property. Refer to each code diction for authority having jurisdiction contact information.
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Building Codes for University of Michigan


By local rule, the following exceptions/modifications are applied to the Michigan Building Code article 717.5.3, article 907.5.2.3.3, and article 1010.1.9.11:

Article 717.5.3 add exception number 6:
Exception 6. In other than I or H occupancies or Michigan Medicine owned and/or occupied facilities, when equipped throughout with an automatic sprinkler system in accordance with Section 903.3.1.1, smoke dampers are not required at shaft enclosures unless specifically required by other sections of the code. Instead, provide smoke dampers at locations and to function as prescribed in the 2012 edition of NFPA 90A - 'Standard for the Installation of Air-Conditioning and Ventilating Systems’.

Article 907.5.2.3.3 Group R-2 reference the following interpretation of the use of the word "capability":

In the sentence "all dwelling units and sleeping units shall be provided with the capability to support visible alarm notification appliances…". Capability of the fire alarm system shall be addressed by the spare capacity already required in all U of M fire alarm circuits and fire alarm panels. This spare capacity in the circuits (raceways, and installed conduit), shall be available immediately after the fire alarm system is commissioned. The spare capacity at the panel, may be in the form of power supplies sized for the expansion, and/or in the form of sufficient (spare) mounting space in the panel for the additionally needed power supplies. Refer to U of M Design Guideline and master specifications for spare capacity requirements.

Article 1010.1.9.11 add the following:
Exception 6. In existing buildings, doors on stair enclosures shall be permitted to be equipped with hardware that prevents reentry into the interior of the building, provided that egress is maintained and the doors are in compliance with the requirements of NFPA 101 - 2012, article 7.2.1.5.8

Section 907.5.2.3 Visual Alarms.
Add Exception 4. In other than Group I occupancies and ambulatory care, visual alarms are not required in the following:

a) Offices less than 200 square feet.
b) Closets and coat rooms.
c) Electrical closets.
d) Mechanical pipe chases.
e) Crawl Spaces.
f) Small restrooms with access inside classrooms.
g) Custodial closets.
h) Storage rooms less than 200 square feet.
i) Unoccupied spaces.

Chapter 32 Encroachments into the Public Right of Way: Within the public right of way adhere to City of Ann Arbor standards and specifications refer to the following web site for requirements:

http://www.a2gov.org/departments/engineering/Pages/Right-Of-Way-and-Lane-Closure-Permits.aspx

The following regulations take precedence over conflicting requirements in the Michigan Building Code:


“NFPA 13 2013 -- Sprinkler Systems”.

“NFPA 45 2011-- Fire Protection for Laboratories Using Chemicals”.


“Guide for Care and Use of Laboratory Animals” promulgated by US Department of Health & Human Services”.

Enforcing Agency —
University of Michigan Architecture, Engineering and Construction.

Michigan Residential Code¶2015 (adopted February 8, 2016) promulgated by the State of Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes. Including rule 408.30500 Rule 500 as printed on the interior cover of the Michigan Building Code which includes ASHRAE 2013. ¶

Enforcing Agency —
University of Michigan Architecture, Engineering and Construction.

ADA Standards for Accessible Design ¶2010 (adopted March 9, 2011) As required to comply with Section 504 of US Rehabilitation Act of 1973 Title II of Americans with Disabilities Act of 1990 and updated September 15, 2010. Also note that the University maintains a space-by-space database of non-compliance. Contact Architecture, Engineering and Construction for database information. Notice of corrections are to be reported to Architecture, Engineering and Construction for the purpose of updating the database.

State and local government facilities must follow the requirements of the 2010 Standards, including both the Title II regulations at 28 CFR 35.151; and the 2004 ADAAG at 36 CFR part 1191,
appendices B and D. In the few places where requirements between the two differ, the requirements of 28 CFR 35.151 prevail.

**Enforcing Agency —**
All federal agencies (on complaint basis) for U.S. Rehabilitation Act of 1973, U.S. Department of Justice and Architectural and Transportation Barriers Compliance Board (on complaint basis) for Americans with Disabilities Act.


For assistance in determining which projects are subject to plan review and inspection, and BFS fire alarm and fire suppression shop drawing review and inspection, MM FPD has developed a flowchart available at [BFS Flowchart](#). This flowchart has been reviewed by BFS, however it is not intended to replace professional judgment. Jurisdiction should be verified with BFS directly when it is not clear. Affirm decisions with MM Design Manager.

**Enforcing Agency —**
State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Fire Safety Plan Review Division
525 W Allegan 4th Floor
Lansing, MI. 48913-0001
(517) 241-8847

Administrative rules web site:

**State of Michigan Dormitory Fire Safety Rules for Schools, Colleges and Universities¶ (Effective January 5, 2017)** promulgated by the State of Michigan Bureau of Fire Services (incorporating by reference NFPA 101 – Life Safety Code 2012). Note that this standard applies only to fire compartments of buildings which contain dormitories. A listing of Ann Arbor campus buildings that contain dormitory space is included at the end of this section.

**Enforcing Agency —**
State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Fire Safety Plan Review Division
525 W Allegan 4th Floor
Lansing, MI. 48913-0001
(517) 241-8847

Administrative rules web site:
State of Michigan Fire Safety Rules for Schools, Colleges and Universities\(^{(F}iled May 19, 2016)\) Effective June 20, 2016) promulgated by the State of Michigan Bureau of Fire Services (incorporating by reference NFPA 101 – Life Safety Code 2012). Note that this standard applies only to fire compartments of buildings which contain instructional space (classrooms and/or instructional laboratories). A listing of Ann Arbor campus buildings that contain instructional space is included at the end of this section.

**Enforcing Agency**
State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Fire Safety Plan Review Division
525 W Allegan 4th Floor
Lansing, MI. 48913-0001
(517) 241-8847

Administrative rules web site:

State of Michigan Human Services for Child Care in a Child Care Center\(^{(P}romulgated by the State of Michigan Human Services. Note that this standard applies only to fire compartments of buildings which contain child care centers. A listing of Ann Arbor campus buildings that contain Child Care Centers is included at the end of this section.

**Enforcing Agency**
State of Michigan Department of Human Services
PO Box 30759
Lansing, MI. 48909-8150
(517) 241-2488

Administrative rules:

State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Child Care Section
PO Box 30700
Lansing, MI. 48909

Application form for Child Care Plan Review:
https://www.michigan.gov/documents/lara/lara_BCAL_1787cc_Environmental_Health_Inspection_Request_0615_492991_7.pdf


**Enforcing Agency**
University of Michigan Architecture, Engineering and Construction.

**Enforcing Agency** —
University of Michigan EHS Fire Marshal.
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 615-2718

State of Michigan Occupational Safety and Health Standards (MIOSHA)\textsuperscript{Filed many different dates) Contact U of M Department of Environment, Health, and Safety for projects involving toxic and/or hazardous materials.}

Contact UM Department of Environment, Health, and Safety (EHS) for projects affecting worker safety issues, such as work conditions resulting in exposure conditions to air contaminants, noise, ergonomic hazards, blood borne pathogens, ionizing or nonionizing radiation, and potential for exposure to worker falls, electrical hazards, excavations.
Additional information is at web site: [http://ehs.umich.edu/plans-guidelines/](http://ehs.umich.edu/plans-guidelines/)

**Enforcing Agency** —
Michigan Department of Licensing and Regulatory Affairs
Michigan Occupational Safety & Health Administration (MIOSHA)
530 W. Allegan Street
P.O. Box 30643
Lansing, MI 48909-8143
(800) 866-4674

Web Site: [http://www.michigan.gov/lara/0,4601,7-154-11407_15368---,00.html](http://www.michigan.gov/lara/0,4601,7-154-11407_15368---,00.html)

State of Michigan Elevator Code\textsuperscript{2010 Edition} (Effective July 11, 2014)

**Enforcing Agency** —
State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Construction Codes
Elevator Safety Division
Calvin W. Rogler, Chief Elevator Inspector
PO Box 30254
Lansing, MI. 48909
(517) 241-9337

Refer to Design Guidelines for additional requirements on Elevators.

**SPECIAL INSTRUCTIONS TO DESIGNERS**
**CODES AND REGULATORY AGENCIES**

**JULY 2018**
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**Enforcing Agency** —
University of Michigan Architecture, Engineering and Construction.


607.1 (2) (h): A 1070 mixing valve is permitted to control up to 5 accessible plumbing fixtures within the same room, The 1070 mixing valve shall be certified for a minimum flow rate of 1/2 GPM or less.

312.2 Drainage and vent water test. A water test shall be applied to the drainage system either in its entirety or in sections. If applied to the entire system, all openings in the piping shall be tightly closed, except the highest opening, and the system shall be filled with water to the point of overflow. If the system is tested in sections, each opening shall be tightly plugged except the highest openings of the section under test, and each section shall be filled with water, but no section shall be tested with less than a 10-foot (3048 mm) head of water. In testing successive sections, at least the upper 10 feet (3048 mm) of the next preceding section shall be tested so that no joint or pipe in the building, except the uppermost 10 feet (3048 mm) of the system, shall have been submitted to a test of less than a 10-foot (3048 mm) head of water. This pressure shall be held for not less than 15 minutes. The system shall then be tight at all points "

**Enforcing Agency** —
University of Michigan Architecture, Engineering and Construction.


Enforcing Agency —
Project jurisdiction NFPA 101:
State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Plan Review/Fire Safety
300 N. Washington Square
Lansing, MI. 48913
(517) 241-8847

Project jurisdiction MBC: University of Michigan Architecture, Engineering and Construction


By local rule the following exceptions/modifications are applied to the Michigan Electrical Code:


NEC 2014 Sections 700.28 and 701.27: The University may deviate from full selectivity (overcurrent protective device coordination within the emergency generator distribution system) in order to lower arc-flash energy levels for worker safety. All such deviations from full selectivity will be designed by, and reviewed by, registered professional engineers.

Enforcing Agency —
University of Michigan Architecture, Engineering and Construction.

Web site for Part 8:

The 2010 edition of NFPA 72 is incorporated by reference in the edition of NFPA 101 incorporated by the current State of Michigan Bureau of Fire Services Administrative Rules for New and Existing School, College, and University Fire Safety and Dormitory Fire Safety. The Bureau of Fire Services allows the use of new versions of NFPA 72 with some limitations. Contact the Bureau of Fire Services for specifics

Enforcing Agency —
Project jurisdiction NFPA 101:
State of Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services, Plan Review/Fire Safety
300 N. Washington Square
Lansing, MI. 48913
(517) 241-8847

By local rule, smoke and heat detectors are not required above suspended ceilings.
Enforcing Agency —
Project jurisdiction MBC: University of Michigan Architecture, Engineering and Construction


Enforcing Agency —
University of Michigan Unit for Laboratory Animal Medicine.

University of Michigan Environment, Health & Safety.


Refer to “Animal Facilities Design Criteria and Special Requirements” contained in The University of Michigan Design Guidelines.


Enforcing Agency —
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Corresponding web site—

State of Michigan Issued NPDES Permit
In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq; the "Federal Act"), Michigan Act 451, Public Acts of 1994, as amended (the "Michigan Act"), Parts 31 and 41, and Michigan Executive Orders 1991-31, 1995-4 and 1995-18, The University of Michigan (U-M) is authorized to discharge storm water from the municipal separate storm sewer system (MS4) operated by the U-M in various locations in Michigan, and is designated as an MS4 in
accordance with the conditions set forth in U-M’s National Pollutant Discharge Elimination System (NPDES) permit with the State of Michigan, Department of Environmental Quality (MDEQ).

Per the NPDES permit, projects that disturb greater than one acre of land must meet certain post-construction storm water management requirements. Contact EHS EP3 as soon as possible, at the beginning of a project, to discuss this requirement.

Please note that the City of Ann Arbor may also require post-construction storm water management, above what is required by the U-M’s NPDES permit, including areas disturbing less than 1 acre. This will be between the City and the Project, with input and coordination from EHS and the U-M Planner.

**Coordinating Agency**—
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

**Corresponding Guideline** —

**Enforcing Agency**—
Michigan Department of Environmental Quality
Jackson State Office Building
301 E. Louis Glick Highway
4th Floor, Jackson, MI 49201
517-780-7929

MDEQ Web Site: [http://www.michigan.gov/deq/0,4561,7-135-3313_3682_3716---,00.html](http://www.michigan.gov/deq/0,4561,7-135-3313_3682_3716---,00.html)

**State of Michigan Contaminated Soil and Groundwater¶**
In compliance with Michigan Public Act 451, Part 201 (Environmental Remediation) owners/operators of properties where soil or groundwater is present above Part 201 Generic Residential Criteria have due care requirements. Due Care requirements include undertaking measures, as necessary, to prevent exacerbation of existing contamination, undertaking response activities to mitigate unacceptable exposures to contamination, taking reasonable precautions against the reasonably foreseeable acts or omissions of a third party, complying with any land use or resource use restrictions, and not impeding with the effectiveness or integrity of such restrictions.

Contact EHS EP3 as soon as possible, at the beginning of a project, to discuss any known contamination, recommended assessments, scheduling, compliance requirements, and budget development to evaluate possible contamination or manage known contamination.

**Coordinating Agency**—
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Enforcing Agency—

Michigan Department of Environmental Quality
Remediation and Redevelopment Division
P.O. Box 30426
Lansing, MI 48909-7926
517-335-6843

MDEQ Web Site: [http://www.michigan.gov/deq/0,4561,7-135-3311_4109---,00.html](http://www.michigan.gov/deq/0,4561,7-135-3311_4109---,00.html)

State of Michigan Leaking Underground Storage Tanks¶

In compliance with Michigan Public Act 451, Part 213 (Leaking Underground Storage Tanks) owners/operators of underground storage tanks have requirements during the removal of underground storage tank systems to evaluate if a release to the environment has occurred. Tank removal contractors are typically obtained and managed by U-M EHS.

Contact EHS EP3 as soon as possible at the beginning of a project to discuss any tank removals, recommended assessments, scheduling, compliance requirements, and budget development.

Coordinating Agency—

University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agency—

Michigan Department of Environmental Quality
Remediation and Redevelopment Division
P.O. Box 30033
Lansing, MI 48909
(517) 332-1428

MDEQ Web Site: [http://www.michigan.gov/deq/0,1607,7-135-3311_4109_4215---,00.html](http://www.michigan.gov/deq/0,1607,7-135-3311_4109_4215---,00.html)

State of Michigan Underground Storage Tanks (UST)¶

(Permitting only, commissioning by AEC) In compliance with Michigan Public Act 451, Part 211 (Underground Storage Tank Rules), Michigan Underground Storage Tank Rules, and/or Storage and Handling of Flammable and Combustible Liquids Rules the owners/operators of underground ground storage tanks have requirements for the design, construction, installation, maintenance, and removal of tank systems.

Contact EHS EP3 as soon as possible at the beginning of a project to discuss tank plans, scheduling, compliance requirements, and budget development.
Coordinating Agency—
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agency—
Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services
Storage Tank Division
P.O. Box 30033
Lansing, MI 48909
(517) 332-1428

MDEQ Web Site: http://www.michigan.gov/lara/0,4601,7-154-35299_42271_4115_4238---,00.html

State of Michigan Aboveground Storage Tanks (AST)
(Permitting only, commissioning by AEC) In compliance with Michigan Public Act 207, Parts 2 through 5 of the rules the Aboveground Storage Tank (AST) Program regulates the following:
• storage and handling of flammable and combustible liquids with flash point less than 200 degrees Fahrenheit.
• storage and handling of liquefied petroleum gases
• compressed natural gas vehicular systems

The regulatory authority is from the Fire Prevention Code, 1941 PA 207, as amended.
Contact EHS EP3 as soon as possible at the beginning of a project to discuss tank plans, scheduling, compliance requirements, and budget development.

Coordinating Agency—
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

Enforcing Agency—
Michigan Department of Licensing and Regulatory Affairs
Bureau of Fire Services
Storage Tank Division
P.O. Box 30033
Lansing, MI 48909
(517) 332-1428

Michigan AST Web Site http://www.michigan.gov/lara/0,4601,7-154-35299_42271_4115_4237---,00.html
Emergency Generators
(Permitting only, commissioning by AEC) Pending on size, fuel usage, status, reciprocating internal combustion engines are regulated per the Environmental Protection Agency and MDEQ. There are design requirements, potential permit requirements, maintenance/recordkeeping requirements and initial notification that need to be met and submitted within 120 days of startup.

Contact EHS EP3 as soon as possible at the beginning of a project to discuss plans, scheduling, compliance requirements, and budget development.

Coordinating Agency—
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI 48109-1010
(734) 936-1920

Enforcing Agencies—
Michigan Department of Environmental Quality
Air Quality Division
525 West Allegan Street
Lansing, MI 48909
Environmental Protection Agency
Air and Radiation Division
Chicago, IL

MDEQ Website (RICE): http://www.michigan.gov/deq/0,4561,7-135-3310_70310_70317-254013--00.html

Boilers
(Air permitting only, commissioning by AEC) Pending on size, fuel usage, status, boilers are regulated per the Environmental Protection Agency and MDEQ. There are design requirements, potential permit requirements, maintenance/recordkeeping requirements and initial notifications that need to be met and submitted within 15 days of startup.
Contact EHS EP3 as soon as possible at the beginning of the project to discuss plans, schedules, and compliance requirements.

Coordinating Agency—
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI 48109-1010
(734) 936-1920

Enforcing Agencies—
Michigan Department of Environmental Quality
Air Quality Division
525 West Allegan Street
Lansing, MI 48909
Chemical Storage

Per the MI Part 5 Rules, Spillage of Oil and Polluting Materials, 1994 PA 451, R 324.2001 to R 324.2009, requires secondary containment and Pollution Incident Prevention Plan if bulk salt, chemical, or oil storage exceeds the threshold management quantity. Contact EHS EP3 as soon as possible at the beginning of a project to discuss plans, scheduling, compliance requirements, and budget development.

**Coordinating Agency**
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 936-1920

**Enforcing Agencies**
Michigan Department of Environmental Quality
Water Bureau
Jackson District Office
301 E. Louis Glick Highway
Jackson, MI 49201

MDEQ Website: [http://www.michigan.gov/deq/0,4561,7-135-3313_23420---,00.html](http://www.michigan.gov/deq/0,4561,7-135-3313_23420---,00.html)
Building Standards for University of Michigan construction that are required for subsequent licensing of the facility

State of Michigan Department of Licensing and Regulatory Affairs, Division of Health Facilities and Services


All areas used by inpatients, and all areas within state jurisdiction, are to be designed to comply with HFES regulations. In general, all areas used by outpatients that fall outside HFES jurisdiction are to be designed to comply with HFES regulations. Any areas of noncompliance should be reviewed and approved by the Michigan Medicine (MM) Design Manager.

HFES is the AHJ over all Inpatient Health Care Occupancies (defined as “Health Care Facilities” by NFPA and “I-2” by MBC. Further they are the AHJ over some “Ambulatory Health Care” Occupancies, including Outpatient Surgery and Outpatient Dialysis. The occupancy classification of “Ambulatory Health Care” needs to be carefully reviewed with the MM Design Manager. Not all AHC occupancies are subject state and federal regulatory authorities.

For assistance in determining which projects are subject to HFES plan review and inspection, MM has developed a flowchart available on the MM FPD website at HFES Flowchart. This flowchart has been reviewed by HFES, however it is not intended to replace professional judgment. Jurisdiction should be verified with HFES directly when it is not clear. Affirm decisions with the MM Design Manager.

Enforcing Agency—
Michigan Department of Licensing and Regulatory Affairs
Health Facilities Division, Health Facilities Engineering Section
Ottawa Building – 1st Floor
611 W. Ottawa Street
Lansing, MI 48933
Office #: 517-241-3408

HFES Website: http://www.michigan.gov/hfes

Biosafety in Microbiological and Biomedical Laboratories (BMBL)

An advisory document recommending best practices for the safe conduct of work in biomedical and clinical laboratories from a biosafety perspective. It is used for building design standards, grant, and contract requirements for laboratories that handle infectious microorganisms and hazardous biological materials or animals. Each biosafety laboratory must, at a minimum, meet the requirements for laboratory facilities as stated in the BMBL.

Coordinating Agency—
University of Michigan EHS
Biosafety
1239 Kipke Dr.
Coordinating Agency—
Center for Disease Control and Prevention
1600 Clifton Road
Atlanta, GA 30329-4027
(800)232-4636

Web Site: https://www.cdc.gov/biosafety/publications/bmbl5/BMBL.pdf

Center for Medicare and Medicaid Services (CMS)

CMS is a federal agency that administers Medicare, works with states on Medicaid. It surveys and certifies Health Care facilities and labs for reimbursement, including Outpatient Surgery and Outpatient Dialysis. CMS also issues Survey and Certification memos and clarifications, including “Categorical Waivers” that the facility may choose to adopt. CMS requires facilities built before 2016 to comply with “Existing Health Care” and “Existing Ambulatory Health Care” chapters of NFPA 101. Facilities built after 2016 and all renovations are to comply with “New Health Care” and “New Ambulatory Health Care.”

The Joint Commission Requirements for Accreditation of Health Care Facilities
As defined at http://www.jointcommission.org/. The Joint Commission (TJC) is the largest and most recognized accreditation organization that the state and CMS recognize for licensure and reimbursement. TJC surveys to the codes adopted by CMS and has established requirements based on CMS standards. MM Accreditation staff may participate in design reviews of MM clinical projects to ensure compliance with TJC and CMS requirements.

State of Michigan Department of Licensing and Regulatory Affairs, MIOSHA--Radiation Safety Section / United States Nuclear Regulatory Commission" All projects which include ionizing radiation-producing equipment or devices used for clinical or research use. All electronic equipment producing ionizing radiation must be registered with the Michigan Department of Licensing and Regulatory Affairs through EHS/Radiation Safety Service prior to initial use. Irradiators or other similar devices using or producing radioactive materials for clinical or research use will require licensing by the U.S. Nuclear Regulatory Commission in advance. Approvals for registration or licensing may also require submitting shielding construction plans for prior approval by MIOSHA--Radiation Safety Section or the U.S. Nuclear Regulatory Commission depending on the type of equipment used and nature of the facility. Contact UM EHS / Radiation Safety Service for assessment.

Enforcing Agency—
Radiation Safety Section
Michigan Occupational Safety and Health Administration (MIOSHA)
Michigan Department of Licensing and Regulatory Affairs
525 W. Allegan Street
P.O. Box 30643
Lansing, Michigan 48933
ASHRAE / ASHE Standard 170-2013 “Ventilation of Health Care Facilities”
Compliance with ASHRAE/ASHE Standard 170-2013 is required for all facilities which contain patient areas, including non-patient areas within the same building.

University of Michigan Leased Health Care Facilities
MM leases many facilities which are subject to local municipal jurisdiction, in addition to MM Design Guidelines and Preferred Manufacturer’s List (PML). For more information on ownership status and physical addresses for all buildings, please consult with the MM Design Manager.

Toxic and/or Hazardous Materials at University of Michigan Health Care Facilities
Contact MM Safety Management Services for projects involving toxic and/or hazardous materials.

Coordinating Agency —
Michigan House
2301 Commonwealth Blvd Floor 2
SPC 2945
Ann Arbor, MI  48105
(734) 764-4427
Email: safetymgmt-safety@med.umich.edu

Aviation, Pharmacy, Psychology, and Pathology, etc.
Consult corresponding clinical department for information on additional regulatory agencies including but not limited to the list above.

State of Michigan Rules for Construction or Renovation of Food Service Facilities
Promulgated by the State of Michigan Department of Agriculture and Rural Development (Food and Dairy Division). Act 92, Food Law which incorporates by reference chapters 1 through 8 of the 2009 Michigan Modified Food and Drug Administration Food Code. Visit the University of Michigan Department of Environment, Health & Safety website http://ehs.umich.edu/construction-projects/food-service-facilities/ for instruction sheet information and a copy of the Plan Review Packet and Worksheet that must be completed prior to starting a project. The University of Michigan Environment, Health & Safety (EHS) Department is the enforcing agency with authorization provided by the Washtenaw County Environmental Health Department.

Enforcing Agency —
University of Michigan EHS
Operational Health and Safety
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 647-1142
State of Michigan Rules for Construction or Renovation of Swimming Pools
Promulgated by the State of Michigan Department of Environmental Quality (Water Division). Michigan’s Public Health Code, Public Act 368 of 1978, Part 125, Contact University of Michigan Department of Environment, Health & Safety for information. The University of Michigan Environment, Health & Safety (EHS) Department is the enforcing agency with authorization provided by the Washtenaw County Environmental Health Department.

Enforcing Agency—
University of Michigan EHS
Operational Health and Safety
1239 Kipke Dr.
Ann Arbor, MI. 48109-1010
(734) 647-1142

Also see 15010 “Basic Mechanical Requirements” for additional codes and standards applicable to mechanical work on University projects.

State of Michigan Department of Environmental Quality (MDEQ)¶ (Filed many different dates)
Contact U of M Department of Environment, Health & Safety for information on environmental regulatory requirements. All project specific communication with the enforcing agency must be through or coordinated with the U of M Environment, Health & Safety Department.

Coordinating Agency—
University of Michigan EHS
Environmental Protection and Permitting Program (EP3)
1239 Kipke Dr.
Ann Arbor, MI 48109-1010
(734) 936-1920

EHS Web Site: http://ehs.umich.edu/

• Environmental Protection: http://ehs.umich.edu/construction-projects/environmental-considerations/
• Air permitting (generators, boilers, refrigeration units): http://ehs.umich.edu/environmental/air/
• Power washing and discharge to ground: http://ehs.umich.edu/environmental/water/powerwashing/
• Remediation: http://ehs.umich.edu/construction-projects/environmental-considerations/remediation/
• Storage Tanks: http://ehs.umich.edu/construction-projects/environmental-considerations/storage-tanks/
• Threatened and Endangered Species: http://ehs.umich.edu/construction-projects/environmental-considerations/endangered-species/
• Wetlands: http://ehs.umich.edu/environmental/wetlands/

Enforcing Agency—
Michigan Department of Environmental Quality
525 West Allegan Street
P.O. Box 30473
MDEQ Web Site: http://www.michigan.gov/deq

United States Environmental Protection Agency (USEPA)
(Filed many different dates), which is Title 40 of the Code Federal Regulations. Contact U-M Department of Environment, Health & Safety for information on environmental regulatory requirements. All project specific communication with the enforcing agency must be through or coordinated with the U of M Environment, Health & Safety department.

Coordinating Agency—
University of Michigan EHS
Environmental Protection and Permitting (EP)
1239 Kipke Dr.
Ann Arbor, MI 48109-1010
(734) 936-1920

EHS Web Site: http://ehs.umich.edu/

Enforcing Agency—
United States Environmental Protection Agency
Region 5 (IL, IN, MI, MN, OH, WI)
77 West Jackson Boulevard
Chicago, IL 60604-3507
(312) 353-2000

USEPA Web Site: http://www.epa.gov/

Federal Aviation Administration (FAA)
Any construction or alteration projects must provide notice to FAA if they meet certain criteria. All projects that meet the criteria noted in FAA Title 14: Aeronautics and Space, Part 77- Safe, Efficient Use, and Preservation of the Navigable Airspace must file notice with FAA at least 45 days prior to start date of proposed construction or alteration.

Enforcing Agency—
U.S. Department of Transportation
Federal Aviation Administration
800 Independence Avenue, SW
Washington, DC 20591
(866) 835-5322

FAA Web Site: http://www.faa.gov/
OE/AAA Filing Web Site: https://oeaaa.faa.gov/oeaaa/external/portal.jsp
### University of Michigan Buildings That Contain Instructional Space

(Based on M-Pathways GQL database for rooms with type code 110 or 210)

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<thead>
<tr>
<th>BLDG BLDG NO</th>
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<td>5179 202 SOUTH THAYER</td>
<td>0447 DOW, HERBERT H BUILDING</td>
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<td>0879 553 SOUTH FOREST BUILDING</td>
<td>0166 EAST HALL</td>
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<tr>
<td>5037 A. A. TAUBMAN BIOMEDICAL SCIENCE RESEARCH BUILDING (Auditorium)*</td>
<td>0054 EAST QUADRANGLE</td>
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<tr>
<td>0421 AERO ENG - WIND TUNNEL LAB (FA/FS only)</td>
<td>0221 EDUCATION, SCHOOL OF</td>
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<td>0425 AERO ENG - PLASMA RESEARCH (FA/FS only)</td>
<td>0448 ELECTRICAL ENG &amp; COMPUTER SCI BLDG</td>
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<td>0422 AERO ENG - PROPULSION LAB (FA/FS only)</td>
<td>0435 ENGINEERING RES BLDG I (FA only)*</td>
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<td>0423 AERO ENG – PUMPING STATION (FA/FS only)</td>
<td>0436 ENGINEERING RESEARCH BLDG II</td>
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<td>0414 ENVIRONMENTAL &amp; WATER RES ENG BL</td>
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<td>0101 ANGELL HALL ADDITION-AUDITORIUMS</td>
<td>0733 FISHER RAY BASEBALL STADIUM</td>
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<td>0175 ANGELL HALL ADDITION-HAVEN HALL</td>
<td>1651 FLINT HARRISON PARKING RAMP*</td>
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<td>0197 ANGELL HALL ADDITION-MASON HALL</td>
<td>1650 FLINT DAVID FRENCH HALL</td>
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<tr>
<td>0152 ANGELL JAMES B HALL &amp; TISCH HALL</td>
<td>1649 FLINT FRANCES WILLSON TOMPSON LIBRARY</td>
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<tr>
<td>0831 ARGUS II</td>
<td>5017 FLINT NORTHBANK CENTER</td>
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<tr>
<td>0432 ART &amp; ARCHITECTURE BUILDING</td>
<td>1664 FLINT UNIV PAVILION ANNEX</td>
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<tr>
<td>0395 BAGNOUD, FRANCOIS-XAVIER BUILDING</td>
<td>1630 FLINT WM R MURCHIE SCIENCE BLDG</td>
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<td>5092 BESTER, BOB &amp; BETTY BUILDING</td>
<td>1694 FLINT WILLIAM S WHITE BUILDING</td>
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<td>0438 BIOLOGICAL SCIENCE BUILDING*</td>
<td>0234 FRANCIS, THOMAS JR PUBLIC HEALTH</td>
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<tr>
<td>0416 BIOLOGICAL ST BLANCHARD</td>
<td>0437 GERSTACKER, CARL A BLDG (FA only)*</td>
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<tr>
<td>0401 BIOLOGICAL ST CORT LABORATORY</td>
<td>0424 GORGUIZE FAMILY LABORATORY</td>
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<tr>
<td>0418 BIOLOGICAL ST CREASER LABORATORY</td>
<td>0179 HUTCHINS HALL (All areas except Aikens Commons &amp; Café Room 150)*</td>
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<tr>
<td>0405 BIOLOGICAL ST FOREST LABORATORY</td>
<td>0429 INDUSTRIAL &amp; OPERATIONS ENGIN BLDG</td>
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<tr>
<td>0411 BIOLOGICAL ST HOUGHTON LAB</td>
<td>5370 JEFF T. BLAU HALL (B, 1, 2, 3, &amp; 5 Flrs)*</td>
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<tr>
<td>0413 BIOLOGICAL ST HUNGERFORD LAB</td>
<td>0324 KELLOGG, W K EYE CENTER</td>
</tr>
<tr>
<td>0437 BIOLOGICAL ST LECTURE HALL</td>
<td>0851 KINESIOLOGY BUILDING (Stair S01, Rooms 1100, 2100, &amp; 3100)*</td>
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<tr>
<td>0419 BIOLOGICAL ST NEWCOMBE LAB</td>
<td>0211 KRAUS, EDWARD HENRY BUILDING</td>
</tr>
<tr>
<td>0415 BIOLOGICAL ST PETTINGILL LAB</td>
<td>0137 KRESGE BUSINESS ADMIN LIBRARY (B, 1, &amp; 2 Flrs)*</td>
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<tr>
<td>0417 BIOLOGICAL ST REIGHARD LAB</td>
<td>0101 KRESGE HEARING RESEARCH</td>
</tr>
<tr>
<td>0439 BIOLOGICAL ST SPARROW LABORATORY</td>
<td>0400 LAY, WALTER E AUTOMOTIVE LAB</td>
</tr>
<tr>
<td>0406 BIOLOGICAL ST STOCKARD LABORATORY</td>
<td>0150 LITERATURE SCIENCE AND THE ARTS (3rd &amp; 4th Flrs)*</td>
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<tr>
<td>0412 BIOLOGICAL ST WELCH LABORATORY</td>
<td>0188 LITTLE, CLARENCE COOK SCIENCE BLD</td>
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<tr>
<td>0407 BROWN, G G LABORATORY</td>
<td>0059 LLOYD, ALICE C HALL</td>
</tr>
<tr>
<td>0175 CASTNER MEMORIAL TOWER</td>
<td>0154 LORCH HALL</td>
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<tr>
<td>0054 CENTRAL CAMPUS REC BLD&amp;BELL POOL</td>
<td>8049 LP BUSINESS ADMIN 15041 COMMERCE</td>
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<tr>
<td>0166 CHEMISTRY &amp; DOW W H LAB</td>
<td>0406 LURIE, ANN AND ROBERT H BIOMEDICAL ENG</td>
</tr>
<tr>
<td>0443 CHRYSLER CNTR CONT ENGINEER ED</td>
<td>0982 MATTHAEI BOT GDNS RESEARCH-ADMIN</td>
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<tr>
<td>0138 COMPUTER &amp; EXECUTIVE EDUCATION BLD</td>
<td>0190 MEDICAL SCIENCE UNIT I (A &amp; B wings)*</td>
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<tr>
<td>0403 BOOLEY, MORTIMER E MEMORIAL</td>
<td>0200 MEDICAL SCIENCE UNIT II</td>
</tr>
<tr>
<td>0189 DANA, SAMUEL TRASK BUILDING</td>
<td>0207 MODERN LANGUAGES BUILDING</td>
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<tr>
<td>0225 DANCE BUILDING</td>
<td>0440 MOORE, EARL V BLDG</td>
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<tr>
<td>1012 DB ADMIN &amp; STUDENT ACTIVITIES BLDG</td>
<td>0061 MOSHER-JORDAN HALL*</td>
</tr>
<tr>
<td>1020 DEARBORN CASL ANNEX &amp; FAIRLANE APT</td>
<td>0151 MUSEUM OF ART (Auditorium &amp; Stair S5)*</td>
</tr>
<tr>
<td>1080 DEARBORN COL ARTS SCIENCE &amp; LETTERS</td>
<td>0415 NAVAL ARCH &amp; MARINE ENGINEERING</td>
</tr>
<tr>
<td>8049 DEARBORN COMMERCE PARK</td>
<td>5266 NORTH CAMPUS RESEARCH COMPLEX BLDG 35 (Auditorium &amp; Lobby)*</td>
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<tr>
<td>1013 DEARBORN COMPUTER &amp; INFOR SCIENCE</td>
<td>0196 NORTH HALL</td>
</tr>
<tr>
<td>1013 DEARBORN ENGINEERING LAB BLDG</td>
<td>5177 NORTH QUAD COMPLEX (Level 1 throughout &amp; Level 2 North Tower)*</td>
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<tr>
<td>1076 DB ENVIRONMENTAL INTERPRET CTR</td>
<td>5047 PALMER DRIVE COMMONS (SW end of 2nd floor)*</td>
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<tr>
<td>5128 DB FAIRLANE CENTER – NORTH (FA &amp; FS only)</td>
<td>0890 PERRY BUILDING (G300)*</td>
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<tr>
<td>5128 DEARBORN FAIRLANE CENTER - SOUTH</td>
<td>0442 PIERPONT COMMONS (Partial basement level)*</td>
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<tr>
<td>1017 DB FIELD HOUSE AND WELLNESS CENTER</td>
<td>0180 POWER CENTER FOR PERFORMING ARTS</td>
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<tr>
<td>1065 DEARBORN MARDIGIAN LIBRARY</td>
<td>0987 PUBLIC POLICY ANNEX</td>
</tr>
<tr>
<td>1079 DEARBORN SCI BLDG-COMPUTING WING</td>
<td>0208 RANDALL, HARRISON M LABORATORY</td>
</tr>
<tr>
<td>1009 DB SCIENCE, CLASSROOM &amp; ADMIN.</td>
<td>0416 RADIATION SCIENCES LAB 1 (FA/FS only)</td>
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<tr>
<td>1077 DEARBORN SOCIAL SCIENCES BUILDING</td>
<td>0417 RADIATION SCIENCES LAB 2 (FA/FS only)</td>
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<tr>
<td>1060 DEARBORN UNIVERSITY CENTER</td>
<td>5188 ROSS SCHOOL OF BUSINESS (B, 1, 2, &amp; 3 Flrs)*</td>
</tr>
</tbody>
</table>

(*) Indicates compartment of jurisdiction. Note egress from compartment; fire alarm & fire suppression for entire bldg are under BFS.

### Special Instructions to Designers Codes and Regulatory Agencies

**July 2018**

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### University of Michigan Buildings
#### That Contain Instructional Space (Continued)

(Based on M-Pathways GQL database for rooms with type code 110 or 210)

<table>
<thead>
<tr>
<th>BLDG NO</th>
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<tbody>
<tr>
<td>5120</td>
<td>ROSS, STEPHEN M ACADEMIC CENTER (Rm 2150)*</td>
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<tr>
<td>0193</td>
<td>RUTHVEN, ALEXANDER G MUSEUMS BLDG</td>
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<td>0219</td>
<td>SCHOOL OF SOCIAL WORK BUILDING</td>
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<tr>
<td>0333</td>
<td>SCHOOL OF NURSING BUILDING</td>
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<tr>
<td>5347</td>
<td>SCHOOL OF NURSING NEW BUILDING</td>
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<td>5235</td>
<td>SOUTH HALL</td>
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<tr>
<td>0441</td>
<td>SPACE RESEARCH LABORATORY</td>
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<tr>
<td>5224</td>
<td>STAMPS AUDITORIUM</td>
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<td>0445</td>
<td>STEARNS, FREDERICK BUILDING</td>
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<td>0216</td>
<td>TAPPAN HALL</td>
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<td>0209</td>
<td>TAUBMAN, A A. HEALTH SCIENCES LIBRARY</td>
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<td>5413</td>
<td>TROTTER WILIAM MONROE MULTICULTURAL CENTER</td>
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<tr>
<td>5046</td>
<td>UNDERGRADUATE SCIENCE BLDG</td>
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<tr>
<td>0204</td>
<td>VAUGHAN, H F PUBLIC HLTH BL(1st &amp; 2nd Flrs)*</td>
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<td>5059</td>
<td>WALGREEN, CHARLES RJ DRAMA CENTER</td>
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<tr>
<td>5101</td>
<td>WEILL HALL, JOAN &amp; SANFORD (1st &amp; 2nd Flrs)*</td>
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<tr>
<td>0167</td>
<td>WEST HALL</td>
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<tr>
<td>0135</td>
<td>WYLY, SAM HALL</td>
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<tr>
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<td>WEISER HALL</td>
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### University of Michigan Buildings
#### That Contain Instructional Space and Are Rental Properties

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<tr>
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<td>FLINT BEECHER NEFF CENTER</td>
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<td>5343</td>
<td>FLINT RIVERFRONT CENTER</td>
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<td>5360</td>
<td>FLINT URBAN ALTERNATIVES HOUSE</td>
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<td>5382</td>
<td>WOODWARD GARDENS</td>
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### University of Michigan Buildings
#### That Contain Dormitory Space

(Continued)

(Continued)

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<td>BAITS, VERA I EATON HOUSE</td>
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<td>0511</td>
<td>BAITS, VERA I LEE HOUSE</td>
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<tr>
<td>0512</td>
<td>BAITS, VERA I PARKER HOUSE</td>
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<tr>
<td>0513</td>
<td>BAITS, VERA I SMITH HOUSE</td>
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<td>0514</td>
<td>BAITS, VERA I STANLEY HOUSE</td>
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<td>0515</td>
<td>BAITS, VERA II COMAN HOUSE</td>
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<td>BAITS, VERA II CONGER HOUSE</td>
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<td>0517</td>
<td>BAITS, VERA II CROSS HOUSE</td>
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<td>0518</td>
<td>BAITS, VERA II THIEME HOUSE</td>
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<td>0519</td>
<td>BAITS, VERA II ZIWET HOUSE</td>
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<td>0051</td>
<td>BARBOUR, BETSY HOUSE</td>
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<td>0555</td>
<td>BURSLEY HALL</td>
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<td>0120</td>
<td>CAMBRIDGE HOUSE (Compartment w/in MICHIGAN UNION)*</td>
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<tr>
<td>0109</td>
<td>COOK, JOHN P LAW QUADRANGLE</td>
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<td>0052</td>
<td>COOK, MARTHA RESIDENCE</td>
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<td>COUZENS HALL</td>
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<td>EAST QUADRANGLE</td>
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<td>LAWYERS CLUB*</td>
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<td>LLOYD ALICE C HALL</td>
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<td>0060</td>
<td>MARKLEY, MARY B HALL</td>
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<td>0040</td>
<td>OH GODDARD HALL</td>
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<tr>
<td>0044</td>
<td>OH JULIA E EMANUEL RESIDENCE</td>
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<tr>
<td>0046</td>
<td>OH L H SEELEY HALL</td>
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<td>0045</td>
<td>OH PAMELA NOBLE RESIDENCE</td>
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<td>0041</td>
<td>OH VANDENBERG HALL</td>
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<td>0063</td>
<td>SOUTH QUADRANGLE</td>
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<td>0064</td>
<td>STOCKWELL HALL</td>
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<td>WEST QUADRANGLE</td>
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(*) Indicates compartment of jurisdiction. Note egress from compartment; fire alarm & fire suppression for entire bldg are under BFS.

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SPECIAL INSTRUCTIONS TO DESIGNERS
CODES AND REGULATORY AGENCIES

JULY 2018

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(Based M-Pathways GQL database for rooms with type code 640, and 645)

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<tr>
<th>BLDG NO</th>
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<tr>
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<td>DEARBORN CHILD DEVELOPMENT CENTER</td>
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<td>DEARBORN KINDERGARTEN MODULE</td>
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<tr>
<td>5018</td>
<td>NCRC (N Campus Research Complex) B075 CHILDREN’S CENTER</td>
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<td>0600</td>
<td>NORTHWOOD COMMUNITY CENTER</td>
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<td>5240</td>
<td>TOWSLEY CHILDREN’S HOUSE</td>
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<td>UNIVERSITY HOSPITALS CHILD CARE CENTER</td>
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### University of Michigan Buildings That Are Inpatient Health Care Facilities

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<td>SAMUEL AND JEAN FRANKEL CARDIOVASCULAR CENTER (CVC)</td>
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<td>0313</td>
<td>CONNECTOR between UH and MOTT adjacent to TOWSLEY</td>
</tr>
<tr>
<td>0312</td>
<td>UNIVERSITY HOSPITAL SOUTH UNIT 2 (old Mott)</td>
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<tr>
<td>0314</td>
<td>UNIVERSITY HOSPITAL SOUTH UNIT 3 (old Holden)</td>
</tr>
<tr>
<td>0318</td>
<td>UNIVERSITY HOSPITAL SOUTH UNIT 4 (old MCHC)</td>
</tr>
<tr>
<td>5173</td>
<td>C.S. MOTT CHILDREN’S AND VON VOIGTLANDER WOMEN’S HOSPITAL</td>
</tr>
<tr>
<td>0316</td>
<td>UNIVERSITY HOSPITAL (UH)</td>
</tr>
</tbody>
</table>

For more detailed boundaries for inpatient facilities and firewall keyplans in all buildings, please consult with MM Design Manager or Michigan Medicine building website.

### University of Michigan Buildings That Contain Hospital Outpatient Surgery Departments

<table>
<thead>
<tr>
<th>BLDG NO</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>5102</td>
<td>BREHM TOWER (BRM) (Eye Center Expansion) (Fourth Floor)*</td>
</tr>
<tr>
<td>5038</td>
<td>EAST ANN ARBOR AMBULATORY SURGERY CENTER</td>
</tr>
<tr>
<td>8096</td>
<td>LIVONIA CENTER FOR SPECIALTY CENTER</td>
</tr>
</tbody>
</table>

### University of Michigan Buildings That Contain Outpatient Dialysis

<table>
<thead>
<tr>
<th>BLDG NO</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>8072</td>
<td>EISENHOWER PARK WEST</td>
</tr>
<tr>
<td>8096</td>
<td>LIVONIA CENTER FOR SPECIALTY CENTER</td>
</tr>
</tbody>
</table>

(*) Indicates compartment of jurisdiction. Note egress from compartment; fire alarm & fire suppression for entire bldg are under BFS.