



## **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 (refer to [Michigan Legislature Article VIII section 5](#)). 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 from 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 dictation for authority having jurisdiction contact information.



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## Building Codes for University of Michigan

**Michigan Building Code 2015 (adopted April 20, 2017)** promulgated by the State of Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes. Including rule 408.30401 Rule 401 as printed on the interior cover of the Michigan Building Code.

By local rule, the following exceptions/modifications are applied to the Michigan Building Code 2015 section 202, section 428, article 717.5.3, article 907.5.2.3.3, article 1010.1.9.11, Chapter 11, Chapter 13, Chapter 32 and Chapter 34:

Section 202 (adopted April 1, 2020): Add definition for Higher Educational Laboratories as follows:

HIGHER EDUCATION LABORATORY. Laboratories in Group B occupancies used for educational purposes above the 12th grade. Storage, use and handling of chemicals in such laboratories shall be limited to purposes related to testing, analysis, teaching, research or developmental activities on a nonproduction basis.

Section 428 (adopted April 1, 2020): Add section 428 Higher Educational Laboratories as follows:

### Section 428 Higher Educational Laboratories

428.1 Scope. Higher education laboratories complying with the requirements of Sections 428.1 through 428.4 shall be permitted to exceed the maximum allowable quantities of hazardous materials in control areas set forth in Tables 307.1(1) and 307.1(2) without requiring classification as a Group H occupancy. Except as specified in Section 428, such laboratories shall comply with all applicable provisions of this code and the *International Fire Code*.

428.2 Application. The provisions of Section 428 shall be applied as exceptions or additions to applicable requirements of this code. Unless specifically modified by Section 428, the storage, use and handling of hazardous materials shall comply with all other provisions in Chapters 38 and 50 through 67 of the *International Fire Code* and this code for quantities not exceeding the maximum allowable quantity.

428.3 Laboratory suite construction. Where laboratory suites are provided, they shall be constructed in accordance with this section and Chapter 38 of the *International Fire Code*. The number of laboratory suites and percentage of maximum allowable quantities of hazardous materials in laboratory suites shall be in accordance with Table 428.3.

428.3.1 Separation from other non-laboratory areas. Laboratory suites shall be separated from other portions of the building in accordance with the most restrictive of the following:

1. Fire barriers and horizontal assemblies as required in Table 428.3. Fire barriers shall be constructed in accordance with Section 707 and horizontal assemblies constructed in accordance with Section 711.

Exception: Where an individual laboratory suite occupies more than one story, the fire resistance rating of intermediate floors contained within the laboratory suite shall comply with the requirements of this code.

2. Separations as required by Section 508.



428.3.2 Separation from other laboratory suites. Laboratory suites shall be separated from other laboratory suites in accordance with Table 428.3.

428.3.3 Floor assembly fire resistance. The floor assembly supporting laboratory suites and the construction supporting the floor of laboratory suites shall have a fire resistance rating of not less than 2 hours.

Exception: The floor assembly of the laboratory suites and the construction supporting the floor of the laboratory suites are allowed to be 1-hour fire resistance rated in buildings of Types IIA, IIIA and VA construction, provided that the building is three or fewer stories.

428.3.4 Maximum number. The maximum number of laboratory suites shall be in accordance with Table 428.3. Where a building contains both laboratory suites and control areas, the total number of laboratory suites and control areas within a building shall not exceed the maximum number of laboratory suites in accordance with Table 428.3.

428.3.5 Means of egress. Means of egress shall be in accordance with Chapter 10.

428.3.6 Standby or emergency power. Standby or emergency power shall be provided in accordance with Section 414.5.2 where laboratory suites are located above the sixth story above grade plane or located in a story below grade plane.

428.3.7 Ventilation. Ventilation shall be in accordance with Chapter 7 of NFPA 45, and the Michigan Mechanical Code.

428.3.8 Liquid tight floor. Portions of laboratory suites where hazardous materials are present shall be provided with a liquid-tight floor.

428.3.9 Automatic fire-extinguishing systems. Buildings containing laboratory suites shall be equipped throughout with an approved automatic sprinkler system in accordance with Section 903.3.1.1.

428.4 Percentage of maximum allowable quantity in each laboratory suite. The percentage of maximum allowable quantities of hazardous materials in each laboratory suite shall be in accordance with Table 428.3.

TABLE 428.3 Design and Number of Laboratory Suites Per Floor

Floor Level	Percentage of the Maximum Allowable Quantity Per Lab Suite <sup>a</sup>	Number of Laboratory Suites Per Floor	Fire-Resistance Rating for Fire Barriers in Hours <sup>b</sup>
21+	Not allowed	Not Permitted	Not Permitted
16-20	25	1	2 <sup>c</sup>
11-15	50	1	2 <sup>c</sup>
Above Grade Plane			
7-10	50	2	2 <sup>c</sup>
4-6	75	4	1
3	100	4	1



	1-2	100	6	1
	1	75	4	1
Below Grade Pla ne	2 Lower than 2	50 Not Allowed	2 Not Allowed	1 Not Allowed

a. Percentages shall be of the maximum allowable quantity per control area shown in Tables 307.1(1) and 307.1(2), with all increases allowed in the footnotes to those tables.

b. Fire barriers shall include walls, floors and ceilings necessary to provide separation from other portions of the building.

c. Vertical fire barriers separating laboratory suites from other spaces on the same floor shall be permitted to be 1-hour fire-resistance rated.

Article 509.1 General add the following Exception 2:

Exception 2: Incidental use for non-hazardous storage between 100 and 250 square feet in fully suppressed existing ambulatory care facilities and existing 1-2 occupancies, converted to non-hazardous storage rooms: with partitions capable of resisting the passage of smoke with a solid door which self-closes, and automatic sprinkler system.

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 all occupancies 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 11 Section 1105 article 1105.1. add the following:

Accessible Public Exterior Entrances. All public exterior entrances provided in accordance with code must have at least one entrance door complying with Section 404.3 (Automatic and Power-Assisted Doors and Gates) of the ABAAS. Where an accessible public entrance has a vestibule with exterior and interior entrance doors, at least one exterior door and one interior door must comply with Section 404.3

Chapter 13 Energy Efficiency - Michigan Energy Code Part 10a rules incorporating the ASHRAE 90.1 2013 – Effective October 25, 2017

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>

Chapter 35 Referenced Standards ICC Standard Reference Number ICC A117.1 – 2017 Standard for Accessible and Usable Buildings and Facilities – Effective March 1, 2020 adopted 2017 version in lieu of 2009.

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

Chapter 13 State of Michigan Part 10a Energy Code Efficiency incorporating ASHRAE Standard 90.1 2013 – Effective October 25, 2017. Refer to University Design Guidelines for additional requirements and items listed above.

State of Michigan Elevator Code.

State of Michigan Mechanical Code 2021 and Michigan Plumbing Code 2021.

State of Michigan Electrical Code incorporating “NFPA 70 --National Electrical Code”, 2023 edition with University of Michigan modifications.

“NFPA 13 2013 -- Sprinkler Systems”.

“NFPA 45 2011-- Fire Protection for Laboratories Using Chemicals”. Unless project is complying with the MBC 428 section on research laboratory.



“NFPA 72 -- National Fire Alarm Code”, 2013 edition with University of Michigan modifications.

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

**Enforcing Agency —**

University of Michigan Environment, Health & Safety Department (EHS) and Architecture, Engineering and Construction (AEC)

**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 Environment, Health & Safety Department (EHS) and Architecture, Engineering and Construction (AEC)

By local rule, the following exceptions/modifications are applied to the Michigan Residential Code Chapter 44:

Chapter 44 Referenced Standards ICC Standard Reference Number ICC/ANSI A117.1 – 2017 Standard for Accessible and Usable Buildings and Facilities – Effective March 1, 2020 adopted 2017 version in lieu of 2009.

**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.

Web site for 2010 ADA: <http://www.ADA.gov>



**State of Michigan Health Care Safety Rules, Bureau of Fire Services (BFS) ((Filed December 23, 2014) Effective February 3, 2015)** promulgated by the State of Michigan Bureau of Fire Services (incorporating by reference NFPA 101 – Life Safety Code 2012) and all other codes and standards currently enforced there in. Note this requires by reference compliance with NFPA 99 Health Care Facilities Code 2012.

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:

[https://www.michigan.gov/documents/lara/PR\\_Webpage\\_-\\_HC\\_Facilities\\_Rev.\\_8-3-15\\_498345\\_7\\_659844\\_7.pdf](https://www.michigan.gov/documents/lara/PR_Webpage_-_HC_Facilities_Rev._8-3-15_498345_7_659844_7.pdf)

**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:

[https://www.michigan.gov/documents/lara/4-SCHOOL\\_Main\\_Page\\_Web\\_662718\\_7.pdf](https://www.michigan.gov/documents/lara/4-SCHOOL_Main_Page_Web_662718_7.pdf)



**State of Michigan Fire Safety Rules for Schools, Colleges and Universities ((Filed 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:

[https://www.michigan.gov/documents/lara/4-SCHOOL\\_Main\\_Page\\_Web\\_662718\\_7.pdf](https://www.michigan.gov/documents/lara/4-SCHOOL_Main_Page_Web_662718_7.pdf)

**State of Michigan Human Services for Child Care in a Child Care Center** Promulgated 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:

[https://www.michigan.gov/lara/0,4601,7-154-89334\\_63294\\_5529\\_49572\\_49581-337881--,00.html](https://www.michigan.gov/lara/0,4601,7-154-89334_63294_5529_49572_49581-337881--,00.html)

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/BCHS-FS-13\\_10\\_15\\_fillable\\_Child\\_Section\\_Application\\_509689\\_7.pdf](https://www.michigan.gov/documents/lara/BCHS-FS-13_10_15_fillable_Child_Section_Application_509689_7.pdf)



**Michigan Rehabilitation Code for Existing Buildings 2015 (adopted April 20, 2017)** promulgated by the State of Michigan Department of Licensing and Regulatory Affairs Bureau of Construction Codes. Including Rule R408.30551 Rule 551 and R408.30552 Rule 552 as printed on the interior cover of the Michigan Rehabilitation Code for Existing Buildings. By local rule, the following exceptions/modifications are applied to the Michigan Rehabilitation Code Chapter 7:

Chapter 7 Section 705 Article 705.2, add the following:

When exterior accessible entrances are altered by level 1 or higher alterations/renovations where not already existing provide at that public entrance at least one entrance door complying with Section 404.3 (Automatic and Power-Assisted Doors and Gates) of the ABAAS. Where an accessible public entrance has a vestibule with exterior and interior entrance doors, at least one exterior door and one interior door must comply with Section 404.3

**Enforcing Agency —**

University of Michigan Environment, Health & Safety Department (EHS) and Architecture, Engineering and Construction (AEC)

**International Fire Code 2015 (adopted April 20, 2017)** promulgated by the International Code Council as referenced in the Michigan Building Code.

**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)** (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/>

**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: <https://www.michigan.gov/leo/bureaus-agencies/miosha>



## Transmitting or Broadcasting Antenna

Transmitting antenna installations operating on any frequency between 300 kHz to 100 GHz must meet FCC radiofrequency (RF) occupational and general public emission limits. 47 CFR 1.1301 - 1.1320. The emission limits are specified in 47 CFR 1.1310. FCC licensees must be prepared to demonstrate compliance with those emission limits or will be required to submit environmental assessments for review and approval by the FCC. In addition, MIOSHA regulates worker exposure to RF radiation both with a specific standard and under its general duty clause. Michigan Administrative Code R325.60701 et seq and MCL 408.1011 of the Michigan Occupational Safety and Health Act 154 of 197.

<https://www.fcc.gov/general/fcc-policy-human-exposure>

## State of Michigan Elevator Code (2016 and 2017 Editions) (Effective June 27, 2023)

(Incorporating by reference the Michigan rules and exceptions for the adoption of ASME A17.1 2016 Safety Code for Elevators and Escalators, the ASME A17.2 2017 Guide for Inspection of Elevators, Escalators, and Moving walks, the ASME 17.3-2017 safety code for existing elevators and escalators, the ASME A17.6-2017 Standard for Elevator Suspension, Compensation and Governor Systems, the ASME A18.1-2017 Safety Code Standard for Platform Lifts, and Stairway Chairlifts, ASME A90.1-2009 Safety Standard for Belt Manlifts, and ANSI A10.4-2016 safety requirements for personnel hoist and employee elevators for construction and demolition and operations.)

### Enforcing Agency —

State of Michigan Department of Licensing and Regulatory Affairs  
Bureau of Construction Codes  
Elevator Safety Division  
PO Box 30254  
Lansing, MI. 48909  
(517) 241-9337

Refer to Design Guidelines for additional requirements on Elevators.

Web site for State of Michigan Elevator codes: [http://www.michigan.gov/lara/0,4601,7-154-35299\\_10575\\_17394\\_17420---,00.html](http://www.michigan.gov/lara/0,4601,7-154-35299_10575_17394_17420---,00.html)

**State of Michigan Mechanical Code 2021 Part 9a Mechanical Code Rules (Adopted March 12, 2024)** (incorporating International Mechanical Code 2021 and Michigan amendments) promulgated by State of Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes.

### Enforcing Agency —

University of Michigan Environment, Health & Safety Department (EHS) and Architecture, Engineering and Construction (AEC)

Web site for Part 9a:

<https://ars.apps.lara.state.mi.us/AdminCode/DeptBureauAdminCode?Department=Licensing%20and%20Regulatory%20Affairs&Bureau=Bureau%20of%20Construction%20Codes>



**State of Michigan Plumbing Code 2021 Part 7 Plumbing Code Rules (Adopted March 12, 2024)**  
(Incorporating International Plumbing Code 2021 and Michigan amendments) promulgated by State of Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes.  
By local rule the following modifications are applied to the Michigan Plumbing Code articles:

403.1.2 Single-user toilet and bathing room fixtures. The plumbing fixtures located in single-user toilet and bathing rooms, including family or assisted-use toilet and bathing rooms that are required by Section 1109.2.1 of the Michigan Building Code, shall contribute toward the total number of required plumbing fixtures for a building or tenant space. Single-user toilet and bathing rooms, and family or assisted-use toilet rooms and bathing rooms shall be identified as being available for use by all persons regardless of their sex. The total number of fixtures shall be permitted to be based on the required number of separate facilities or based on the aggregate of any combination of single-user or separate facilities.

403.2 Separate facilities.

Where plumbing fixtures are required, separate facilities shall be provided for each sex.

Exceptions:

1. Separate facilities shall not be required for dwelling units and sleeping units.
2. Separate facilities shall not be required in structures or tenant spaces with a total occupant load, including both employees and customers, of 15 or fewer.
3. Separate facilities shall not be required in mercantile occupancies in which the maximum occupant load is 100 or fewer.
4. Separate facilities shall not be required in business occupancies in which the maximum occupant load is 25 or fewer.
5. Separate facilities shall not be required to be designated by sex where single-user toilet rooms are provided in accordance with Section 403.1.2. If more than one are required by plumbing calculations provide distribution of men, women and gender inclusive so restrooms are available within 500 feet of travel and traversing no more than one floor.
6. Separate facilities shall not be required where rooms having both water closets and lavatory fixtures are designed for the use by both sexes and privacy for water closets is provided in accordance with Section 405.3.4. Urinals shall be located in an area visually separated from the remainder of the facility or each urinal that is provided is located in a stall. Provide distribution of men, women, and gender inclusive so separate restrooms are available within 500 feet of travel and traversing no more than one floor.

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 Environment, Health & Safety Department (EHS) and Architecture, Engineering and Construction (AEC)

Web site for Part 7:

<https://ars.apps.lara.state.mi.us/AdminCode/DeptBureauAdminCode?Department=Licensing%20and%20Regulatory%20Affairs&Bureau=Bureau%20of%20Construction%20Codes>

**NFPA 13 –Sprinkler Systems (2013 Edition)**

The 2010 edition of NFPA 13 is incorporated by reference in the edition of NFPA 101 incorporated by the current State of Michigan Bureau of Fire Services rules for Schools, Colleges, Hospitals, and Universities. The Bureau of Construction Codes and Fire Safety permits use of more current versions of NFPA 13 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

Project jurisdiction MBC: University of Michigan Environment, Health & Safety Department (EHS) and Architecture, Engineering and Construction (AEC)

**State of Michigan Electrical Code 2023 Part 8 Electrical Code Rules (Adopted March 12, 2024) (Incorporating NFPA 70 – National Electrical Code (2023 Edition) and Michigan Amendments)** promulgated by State of Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes.

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

Michigan Electrical Code Article 80: Article 80 of the Michigan Electrical Code applies with the following exceptions/modifications:

80.15 Electrical Board: Modify "electrical board" to "UM Building Code Committee".

80.25 Connection to Electrical Supply: Modify language to read as follows:

"80.25. Connection to electricity supply. Connections to the electric supply shall conform to the following: It is unlawful for any person, firm, or corporation to make connection to a supply of electricity or to supply electricity to any electrical equipment installation for which permission from UM Electrical Utilities Engineering Group is required or that has been disconnected or ordered to be disconnected."

NEC 2023 Sections 700.32 and 701.32: 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.





Deviation shall be presented to the U-M project team and may require approval from U-M AHJ.

**Enforcing Agency —**

University of Michigan Environment, Health & Safety Department (EHS) and Architecture, Engineering and Construction (AEC)

Web site for Part 8:

<https://ars.apps.lara.state.mi.us/AdminCode/DeptBureauAdminCode?Department=Licensing%20and%20Regulatory%20Affairs&Bureau=Bureau%20of%20Construction%20Codes>

**NFPA 72 – National Fire Alarm Code (2013 edition)**

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

**Guide for the Care and Use of Laboratory Animals 8th Edition 2011 (effective January 1, 2012)**

promulgated by United States Department of Health and Human Services. Regulations of the Federal Animal Welfare Act 9, CFR Parts 1, 2 and 3.

**Enforcing Agency —**

University of Michigan Unit for Laboratory Animal Medicine.  
University of Michigan Environment, Health & Safety.

Web site for the Guide for the Care and Use of Laboratory Animals 8th edition 2011:

<http://grants.nih.gov/grants/olaw/Guide-for-the-Care-and-Use-of-Laboratory-Animals.pdf>

Web site for Federal Animal Welfare Act 9 CFR:

Parts 1, 2, and 3: <https://www.nal.usda.gov/awic/final-rules-animal-welfare-9-cfr-parts-1-2-and-3>

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



**State of Michigan Rules for Soil Erosion & Sedimentation Control** Promulgated by the State of Michigan Department of Environment, Great Lakes, and Energy (EGLE) Soil Erosion and Sedimentation Control Part 91 of Public Acts 451 of 1994 as amended. The University of Michigan Environment, Health, and Safety (EHS) department is approved by the EGLE as an ‘Authorized Public Agency’ to enforce the soil erosion and sedimentation control on University of Michigan property. Refer to University of Michigan Design Guidelines Section 31 - Soil Erosion and Sedimentation Control for additional requirements.

**Enforcing Agency —**

University of Michigan EHS  
Environmental Protection and Permitting Program (EP3)  
1239 Kipke Dr.  
Ann Arbor, MI. 48109-1010  
(734) 647-1143

**Corresponding web site—**

Soil Erosion and Sedimentation Control: <https://ehs.umich.edu/construction-projects/environmental-considerations/erosion-management/>

**State of Michigan Working in and around Regulated Waters, such as Floodways and Floodplains, Streams, Rivers, Ponds, and Wetlands**

The State of Michigan Department of Environment, Great Lakes, and Energy (EGLE) has rules that require permitting where the land and water interface. Please see the link below for Parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended and Rules that are administered by the EGLE Water Resource Division and permitted through obtaining an approved EGLE/USACE Joint Permit Application.

**Coordinating Agency—**

University of Michigan EHS  
Environmental Protection and Permitting Program (EP3)  
1239 Kipke Dr.  
Ann Arbor, MI. 48109-1010  
(734) 647-1143

**Enforcing Agency—**

Federal Emergency Management Agency (FEMA) and/or  
Michigan’s Department of Environment, Great Lakes, and Energy (EGLE)  
Water Resources Division  
301 E. Louis Glick Highway  
Jackson, MI 49201-1556

**Corresponding Guideline —**

Applicable Regulations: <https://www.michigan.gov/egle/about/organization/water-resources/joint-permit-application/applicable-regulations>

**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's, Department of Environment, Great Lakes, and Energy (EGLE). 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) 647-1143

**Corresponding Guideline —**

Storm water Management – Post-Construction Requirements:

<http://ehs.umich.edu/construction-projects/environmental-considerations/storm-water-management/>

**Enforcing Agency—**

Michigan Department of Environment, Great Lakes, and Energy (EGLE)  
Jackson State Office Building  
301 E. Louis Glick Highway  
4th Floor, Jackson, MI 49201  
517-780-7929

EGLE Web Site: <https://www.michigan.gov/egle/about/organization/water-resources/municipal-storm-water>

**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.  
Ann Arbor, MI. 48109-1010  
(734) 647-1143

**Enforcing Agency—**

Michigan Department of Environment, Great Lakes, and Energy  
Remediation and Redevelopment Division  
P.O. Box 30426  
Lansing, MI 48909-7926  
517-335-6843

EGLE Web Site: <https://www.michigan.gov/egle/about/organization/remediation-and-redevelopment>

**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) 647-1143

**Enforcing Agency—**

Michigan Department of Environment, Great Lakes, and Energy  
Remediation and Redevelopment Division  
P.O. Box 30033  
Lansing, MI 48909  
(517) 332-1428

EGLE 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

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Handling of Flammable and Combustible Liquids Rules the owners/operators of underground 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) 647-1143

**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

EGLE Web Site: [http://www.michigan.gov/lara/0,4601,7-154-35299\\_42271\\_4115\\_4238---,00.html](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) 647-1143

**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](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 EGLE. 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) 647-1143

**Enforcing Agencies—**

Michigan Department of Environment, Great Lakes, and Energy  
525 West Allegan Street Lansing, MI 48909  
Environmental Protection Agency Air and Radiation Division  
Chicago, IL

EGLE Website (RICE):

<https://www.michigan.gov/egle/about/organization/air-quality/air-Compliance>

**Boilers**

(Air permitting only, commissioning by AEC) Pending on size, fuel usage, status, boilers are regulated per the Environmental Protection Agency and EGLE. 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) 647-1143

**Enforcing Agencies—**

Michigan Department of Environment, Great Lakes, and Energy  
Air Quality Division  
525 West Allegan Street  
Lansing, MI 48909

EGLE Website: <https://www.egle.state.mi.us/BoilerTool/>

Environmental Protection Agency Air and Radiation Division Chicago, IL

EPA Boiler Q & A Website: <https://www.epa.gov/sites/default/files/2016-09/documents/boilermactqanda.pdf>

**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) 647-1143

**Enforcing Agencies—**

Michigan Department of Environment, Great Lakes, and Energy  
Water Bureau  
Jackson District Office  
301 E. Louis Glick Highway Jackson, MI 49201

EGLE Website:

<https://www.michigan.gov/egle/-media/Project/Websites/egle/Documents/Programs/draft/deq-ead-tas-pipp5summary.pdf>

**Installation of Non-Potable Wells (including geothermal wells)**

The installation of non-potable wells (including geothermal wells) within Washtenaw County requires the submittal of an Application for Non-Potable Well Project with the Washtenaw County Health Department - Environmental Health Division. The application is typically prepared by the driller or consultant, but is reviewed by the University of Michigan – Environmental Health & Safety Department prior to submittal. The application and list of required components can be here at the website referenced below: The U-M EHS Department can provide information regarding known wells and sources of environmental contamination at a site for inclusion in the application. Installation of any wells within Washtenaw County shall follow the Washtenaw County Rules & Regulations For The Protection Of Groundwater, 2004, as amended.

**Coordinating Agency—**

University of Michigan EHS  
Environmental Protection and Permitting Program (EP3)  
1239 Kipke Dr.  
Ann Arbor, MI. 48109-1010  
(734) 647-1143

**Enforcing Agencies—**

Washtenaw County Health Department  
Environmental Health Division  
705 Zeeb Road  
Ann Arbor Mi 48103



Corresponding web sites:

<https://www.washtenaw.org/3004/Installing-a-Well-in-Washtenaw-County>

<https://www.washtenaw.org/DocumentCenter/View/12023/Washtenaw-County-Rules-and-Regulations-for-the-Protection-of-Groundwater-PDF>

<https://www.washtenaw.org/DocumentCenter/View/4445/Application-for-Non-Potable-Well-Project-PDF>

### **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**

The Health Facilities Engineering Section (HFES) Facility Guidelines Institute (FGI) 2018 edition of Guidelines for Design & Construction of Hospitals; Outpatient Facilities; and Residential Health Care and Support Facilities in Michigan. Including all the included referenced codes and standards as listed within these rules, including but not limited to NFPA 99, NFPA 101, and other NFPA and ASHRAE standards. This document for administrative rules are posted at:

[https://dtmb.state.mi.us/ARS\\_Public/AdminCode/DeptBureauAdminCode?Department=Licensing%20and%20Regulatory%20Affairs&Bureau=Bureau%20of%20Community%20and%20Health%20Systems](https://dtmb.state.mi.us/ARS_Public/AdminCode/DeptBureauAdminCode?Department=Licensing%20and%20Regulatory%20Affairs&Bureau=Bureau%20of%20Community%20and%20Health%20Systems)

State of Michigan HFES website:

[https://www.michigan.gov/lara/0,4601,7-154-89334\\_63294\\_79842\\_80018---,00.html](https://www.michigan.gov/lara/0,4601,7-154-89334_63294_79842_80018---,00.html)

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 series of spreadsheets available on the MM FPD website at MBFS HFES Plan Review Guideline. This 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 – 1<sup>st</sup> 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.  
Ann Arbor, MI 48109-1010  
(734) 647-3133

**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/bmb15/BMBL.pdf>

### **Center for Medicare and Medicaid Services (CMS)**

As defined at <http://www.cms.gov/>. Compliance with NFPA 101, Life Safety Code, currently enforced version (2012 as of July 5, 2016) is required.

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, 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 MIOSHA 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)

525 W. Allegan Street

P.O. Box 30643

Lansing, Michigan 48933

Phone: (517) 284-7820

Website: [http://www.michigan.gov/lara/0,4601,7-154-11407\\_35791---,00.html](http://www.michigan.gov/lara/0,4601,7-154-11407_35791---,00.html)**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.

Website: <http://www.med.umich.edu/facilities/plan/vn/index.html>**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](mailto: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, Great Lakes and Energy. Michigan's Public Health Code, [Public Act 368 of 1978, Part 125](#) which is supplemented with the Administrative rules for [Public Swimming Pools](#). 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 Environment, Great Lakes, and Energy (EGLE)** (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) 647-1143

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 Environment, Great Lakes, and Energy  
525 West Allegan Street  
P.O. Box 30473  
Lansing, MI 48909-7973  
(800) 662-9278

EGLLE 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) 647-1143

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)

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

<b>BLDG NO</b>	<b>BLDG NAME</b>	<b>BLDG NO</b>	<b>BLDG NAME</b>
5179	202 SOUTH THAYER	1077	DEARBORN SOCIAL SCIENCES BUILDING
0333	400 NORTH INGALLS BUILDING	0162	DENTAL AND W K KELLOGG INSTITUTE*
0879	555 SOUTH FOREST BUILDING	0447	DOW, HERBERT H BUILDING
0188	1100 NORTH UNIVERSITY BUILDING	0396	DUDERSTADT JAMES AND ANNE CENTER (2 & 3)*
5037	A. A. TAUBMAN BIOMEDICAL SCIENCE RESEARCH BUILDING (Auditorium)*	0166	EAST HALL
0421	AERO ENG - WIND TUNNEL LAB (FA/FS only)	0054	EAST QUADRANGLE
0425	AERO ENG - PLASMA RESEARCH (FA/FS only)	0221	EDUCATION, SCHOOL OF
0422	AERO ENG - PROPULSION LAB (FA/FS only)	0448	ELECTRICAL ENG & COMPUTER SCI BLDG
0423	AERO ENG - PUMPING STATION (FA/FS only)	0435	ENGINEERING RES BLDG I (FA only)*
0168	ANIMAL RESEARCH FACILITY	0436	ENGINEERING RESEARCH BUILDING II
0206	ANGELL HALL ADDITION-AUDITORIUMS	0414	ENVIRONMENTAL & WATER RES ENG BL
0175	ANGELL HALL ADDITION-HAVEN HALL	5418	FORD MOTOR COMPANY ROBOTICS BUILDING
0197	ANGELL HALL ADDITION-MASON HALL	0733	FISHER RAY BASEBALL STADIUM (1100, 1120, 1140, & 1142) *
0152	ANGELL JAMES B HALL & TISCH HALL	1651	FLINT HARRISON PARKING RAMP*
0831	ARGUS II	1650	FLINT DAVID FRENCH HALL
0432	ART & ARCHITECTURE BUILDING	1649	FLINT FRANCES WILLSON TOMPSON LIBRARY
0395	BAGNOUD, FRANCOIS-XAVIER BUILDING	5017	FLINT NORTHBANK CENTER
5092	BESTER, BOB & BETTY BUILDING	1664	FLINT UNIV PAVILION ANNEX
5169	BIOLOGICAL SCIENCE BUILDING*	1630	FLINT WM R MURCHIE SCIENCE BLDG
4016	BIOLOGICAL ST BLANCHARD	1694	FLINT WILLIAM S WHITE BUILDING
4010	BIOLOGICAL ST CORT LABORATORY	0234	FRANCIS, THOMAS JR PUBLIC HEALTH
4018	BIOLOGICAL ST CREASER LABORATORY	0437	GERSTACKER, CARL A BLDG (FA only)*
4005	BIOLOGICAL ST FOREST LABORATORY	0424	GORGUZE FAMILY LABORATORY
4011	BIOLOGICAL ST HOUGHTON LAB	0897	HEALTH MANAGEMENT RESEARCH
4013	BIOLOGICAL ST HUNGERFORD LAB	0179	HUTCHINS HALL (All areas except Aikens Commons & Caf� Room 150)*
4037	BIOLOGICAL ST LECTURE HALL	0429	INDUSTRIAL & OPERATIONS ENGIN BLDG
4019	BIOLOGICAL ST NEWCOMBE LAB	5235	JEFFRIES HALL
4015	BIOLOGICAL ST PETTINGILL LAB	0324	KELLOGG, W K EYE CENTER
4017	BIOLOGICAL ST REIGHARD LAB	0851	KINESIOLOGY BUILDING (Stair S01, Rooms 1100, 2100, & 3100)*
4039	BIOLOGICAL ST SPARROW LABORATORY	0211	KRAUS, EDWARD HENRY BUILDING
4096	BIOLOGICAL ST STOCKARD LABORATORY	0137	KRESGE BUSINESS ADMIN LIBRARY (B, 1, & 2 Flrs)*
4012	BIOLOGICAL ST WELCH LABORATORY	0400	LAY, WALTER E AUTOMOTIVE LAB
4171	BIOLOGICAL ST RESIDENCE HALL	0150	LITERATURE SCIENCE AND THE ARTS (3 <sup>rd</sup> & 4 <sup>th</sup> Flrs)*
5370	BLAU, JEFF T. HALL (B, 1, 2, 3, & 5 Flrs)*	0188	LITTLE, CLARENCE COOK SCIENCE BLD
0407	BROWN, G G LABORATORY	0059	LLOYD, ALICE C HALL
0210	BUHL RES CEN FOR HUMAN GENETICS	0154	LORCH HALL
0155	BURTON MEMORIAL TOWER	8049	LP BUSINESS ADMIN 15041 COMMERCE
5451	CENTRAL CAMPUS CLASSROOM BUILDING	0406	LURIE, ANN AND ROBERT H BIOMEDICAL ENG
0226	CENTRAL CAMPUS REC BLD&BELL POOL	0982	MATTHAEI BOT GDNS RESEARCH-ADMIN
0158	CHEMISTRY & DOW W H LAB	0190	MEDICAL SCIENCE UNIT I (A & B wings)*
0443	CHRYSLER CNTR CONT ENGINEER ED	0200	MEDICAL SCIENCE UNIT II
0441	CLIMATE AND SPACE RESEARCH BUILDING	0207	MODERN LANGUAGES BUILDING
0403	COOLEY, MORTIMER E MEMORIAL	0440	MOORE, EARL V BLDG
0189	DANA, SAMUEL TRASK BUILDING	0061	MOSHER-JORDAN HALL*
5439	DANCE BUILDING	0151	MUSEUM OF ART (Auditorium & Stair S5)*
0198	DETROIT OBSERVATORY ADDITION*	0415	NAVAL ARCH & MARINE ENGINEERING
1012	DB ADMIN & STUDENT ACTIVITIES BLDG		
1020	DEARBORN CASL ANNEX & FAIRLANE APT		
1080	DEARBORN COL ARTS SCIENCE & LETTERS		

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8049 DEARBORN COMMERCE PARK  
 1011 DEARBORN COMPUTER & INFOR SCIENCE  
 1013 DEARBORN ENGINEERING LAB BLDG  
 1076 DB ENVIRONMENTAL INTERPRET CTR  
 5459 DB FAIRLANE CENTER – NORTH  
 5128 DEARBORN FAIRLANE CENTER - SOUTH  
 1017 DB FIELD HOUSE AND WELLNESS CENTER  
 1065 DEARBORN MARDIGIAN LIBRARY  
 1078 DB PROFESSIONAL EDUCATION CENTER  
 1079 DEARBORN SCI BLDG-COMPUTING WING  
 1009 DB SCIENCE, CLASSROOM & ADMIN.

5266 NORTH CAMPUS RESEARCH COMPLEX BLDG 32  
 (Auditorium & Lobby)\*  
 5177 NORTH QUAD COMPLEX ( Level 1 throughout & Level 2  
 North Tower )\*  
 5047 PALMER DRIVE COMMONS (SW end of 2nd floor)\*  
 0890 PERRY BUILDING (G300)\*  
 0442 PIERPONT COMMONS (Partial basement level)\*  
 0180 POWER CENTER FOR PERFORMING ARTS  
 0897 PUBLIC POLICY ANNEX  
 0208 RANDALL, HARRISON M LABORATORY

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

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

**BLDG BLDG  
 NO NAME**

0416 RADIATION SCIENCES LAB 1 (FA/FS only)  
 0417 RADIATION SCIENCES LAB 2 (FA/FS only)  
 5188 ROSS SCHOOL OF BUSINESS (B, 1, 2, & 3 Flrs)\*  
 5120 ROSS, STEPHEN M ACADEMIC CENTER (Rm 2150)\*  
 0193 RUTHVEN, ALEXANDER G MUSEUMS BLDG (FA/FS  
 only)  
 0219 SCHOOL OF SOCIAL WORK BUILDING  
 5347 SCHOOL OF NURSING NEW BUILDING  
 5224 STAMPS AUDITORIUM  
 0445 STEARNS, FREDERICK BUILDING  
 0216 TAPPAN HALL

**BLDG BLDG  
 NO NAME**

0209 TAUBMAN, A A. HEALTH SCIENCES LIBRARY  
 5413 TROTTER WILLIAM MONROE MULTICULTURAL  
 CENTER\*  
 5046 UNDERGRADUATE SCIENCE BLDG  
 0204 VAUGHAN, H F PUBLIC HLTH BL(1, 2& part of 3 Flrs)\*  
 5059 WALGREEN, CHARLES RJ DRAMA CENTER  
 5101 WEILL HALL, JOAN & SANFORD (1st & 2nd Flrs)\*  
 0167 WEST HALL  
 0135 WYLY, SAM HALL  
 0165 WEISER HALL

**University of Michigan Buildings  
 That Contain Instructional Space and Are Rental Properties**

**BLDG BLDG  
 NO NAME**

5403 FLINT BEECHER NEFF CENTER  
 5343 FLINT RIVERFRONT CENTER  
 5360 FLINT URBAN ALTERNATIVES HOUSE  
 5382 WOODWARD GARDENS

**University of Michigan Buildings  
 That Contain Dormitory Space**

(Based M-Pathways GQL database for rooms with type code 910, 919, 920, and 935)

**BLDG BLDG****NO NAME**

0510 BAITS, VERA I EATON HOUSE  
 0511 BAITS, VERA I LEE HOUSE  
 0512 BAITS, VERA I PARKER HOUSE  
 0513 BAITS, VERA I SMITH HOUSE  
 0514 BAITS, VERA I STANLEY HOUSE  
 0515 BAITS, VERA II COMAN HOUSE  
 0516 BAITS, VERA II CONGER HOUSE  
 0517 BAITS, VERA II CROSS HOUSE  
 0518 BAITS, VERA II THIEME HOUSE  
 0519 BAITS, VERA II ZIWET HOUSE  
 0051 BARBOUR, BETSY HOUSE  
 4171 BIOLOGICAL ST RESIDENCE HALL  
 0555 BURSLEY HALL  
 0120 CAMBRIDGE HOUSE (Compartment w/in MICHIGAN UNION)\*  
 0109 COOK, JOHN P LAW QUADRANGLE  
 0052 COOK, MARTHA RESIDENCE  
 0053 COUZENS HALL  
 0054 EAST QUADRANGLE  
 0055 FLETCHER HALL

**BLDG BLDG****NO NAME**

0057 HENDERSON, MARY B HOUSE  
 0108 LAWYERS CLUB\*  
 0059 LLOYD ALICE C HALL  
 0060 MARKLEY, MARY B HALL  
 0061 MOSHER-JORDAN HALL\*  
 0062 NEWBERRY RESIDENCE  
 5177 NORTH QUAD COMPLEX (North Tower levels 3 - 10)\*  
 0040 OH GODDARD HALL  
 0042 OH ADELIA CHEEVER RESIDENCE  
 0043 OH GEDDES RESIDENCE  
 0044 OH JULIA E EMANUEL RESIDENCE  
 0046 OH L H SEELEY HALL  
 0045 OH PAMELA NOBLE RESIDENCE  
 0041 OH VANDENBERG HALL  
 0063 SOUTH QUADRANGLE  
 0064 STOCKWELL HALL  
 0066 WEST QUADRANGLE

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

### University of Michigan Buildings That Contain Child Care Space

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

**BLDG BLDG****NO NAME**

5244 DEARBORN CHILD DEVELOPMENT CENTER  
 1047 DEARBORN KINDERGARDEN MODULE  
 5018 NCRC (N Campus Research Complex) B075 CHILDREN'S CENTER  
 0600 NORTHWOOD COMMUNITY CENTER  
 5240 TOWSLEY CHILDREN'S HOUSE  
 0390 UNIVERSITY HOSPITALS CHILD CARE CENTER

### University of Michigan Buildings That Contain Inpatient Health Care Facilities

**BLDG BLDG****NO NAME**

5109 SAMUEL AND JEAN FRANKEL CARDIOVASCULAR CENTER (CVC)\*  
 0313 CONNECTOR between UH and MOTT adjacent to TOWSLEY\*  
 0312 UNIVERSITY HOSPITAL SOUTH UNIT 2 (old Mott)\*  
 0314 UNIVERSITY HOSPITAL SOUTH UNIT 3 (old Holden)\*  
 0318 UNIVERSITY HOSPITAL SOUTH UNIT 4 (old MCHC)\*  
 5173 C.S. MOTT CHILDREN'S AND VON VOIGTLANDER WOMEN'S HOSPITAL \*  
 0316 UNIVERSITY HOSPITAL (UH) \*

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

**BLDG BLDG**

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**NO NAME**  
5102 BREHM TOWER (BRM) (Eye Center Expansion) (Fourth Floor)\*  
5038 EAST ANN ARBOR AMBULATORY SURGERY CENTER  
5239 BRIGHTON CENTER FOR SPECIALTY CENTER

**University of Michigan Buildings  
That Contain Outpatient Dialysis**

**BLDG BLDG**  
**NO NAME**  
8072 EISENHOWER PARK WEST

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