

DEPARTMENT OF LICENSING AND REGULATORY AFFAIRS

DIRECTOR'S OFFICE CONSTRUCTION CODE

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(By authority conferred on the director of the department of licensing and regulatory affairs by section 4 of 1972 PA 230, MCL 125.1504, and Executive Reorganization Order Nos. 2003-1, 2008-4 and 2011-4, MCL 445.2011, 445.2025, and 445.2030)

R of the Michigan Administrative Code are amended and R are rescinded as follows:

PART 4. BUILDING CODE

R 408.30401 Applicable code.

Rule 401. The provisions of the international building code, ~~2015~~**2018** edition, including appendices F, G, and H, except for sections **104.2, 104.3, 104.5, 104.7, 104.8, 104.9, 104.10, 104.11.1, 104.11.2, 105.1.1, 105.1.2, 105.3, 105.3.1, 105.3.2, 105.6, 107.2.5, 109.1, 109.2 to 109.6, 110.3.9, 111.1, 111.2, 111.3, 113.2, 113.3, 114.1, 114.2, 114.3, 114.4, 115.1 to 115.3, 415.9.1.2 to 415.9.1.9, ~~415.7.4,~~ 903.2.8.4., 2902 to 2902.6, Table 2902.1, 3005.5, the definition of "agricultural building" in section 202, the definition of "recreational vehicle" in Appendix G, and, IECC-2015, IEBC-2015, IMC-2015, IPC-2015, IPSDC-2015, NFPA 70-2014, listed in chapter 35, govern the construction, alteration, relocation, demolition, use, and occupancy of buildings and structures, and, with exceptions noted, the international building code is adopted by reference in these rules. All references to the International Building Code, International Residential Code, International Energy Conservation Code, National Electrical Code, International Existing Building Code, International Mechanical Code, and International Plumbing Code mean the Michigan Building Code, Michigan Residential Code, Michigan Energy Code, Michigan Electrical Code, Michigan Rehabilitation Code for Existing Buildings, Michigan Mechanical Code, and Michigan Plumbing Code respectively. The code is available for inspection at the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, 611 W. Ottawa St., 1st Floor Ottawa Building Lansing, MI 48933. The code may be purchased from the International Code Council, through the bureau's website at www.michigan.gov/bcc, at a cost as of the time of adoption of these amendatory rules of ~~\$128.00~~**\$134.00**.**

R 408.30401a Adult foster care facilities and child care organizations.

Rule 401a. (1) Promulgation authority for fire safety standards for facilities and camps licensed or registered under the adult foster care facility licensing act, 1979 PA 218, being MCL 400.701 et seq., and the child care organizations act, 1973 PA 116, being MCL 722.101 et seq., is vested in the department of human services and the bureau of fire services.

(2) Until amended or rescinded by the promulgating authority, the 2003 Michigan building code provisions relative to fire safety standards for facilities licensed under the adult foster care

facility licensing act, 1979 PA 218, being MCL 400.701 et seq., and the child care organizations act, 1973 PA 116, being MCL 722.101 et seq., remain in effect.

R 408.30402 ~~Title~~**General.**

Rule 402. ~~Section~~**Sections 101.1 and 101.3** of the code ~~is~~**are** amended to read as follows:

101.1. Title. These rules shall be known as the Michigan building code, hereinafter referred to as "the code."

101.3. Intent. The purpose of this code is to establish the minimum requirements to provide a reasonable level of safety, public health and general welfare through structural strength, means of egress facilities, stability, sanitation, adequate light and ventilation, energy conservation, and safety to life and property from fire and other hazards attributed to the built environment and to provide a reasonable level of safety to fire fighters and emergency responders during emergency operations. The Act take precedence overall provisions of this code.

R 408.30403 Residential group R-3.

Rule 403. Sections ~~310.5, 310.5.1,~~**310.4, 310.4.1**, 903.3.8.1, and 903.3.8.5 are amended and 903.2.8.3 is added to the code to read as follows:

~~310.5-~~**310.4** Residential group R-3. Residential occupancies where the occupants are primarily permanent in nature and not classified as group R-1, R-2, R-4, or I, including any of the following:

(a) Adult foster care family homes or adult foster care small group homes licensed per the adult foster care facility licensing act, 1979 PA 218, MCL 400.701 to 400.737, that provide accommodations for 6 or fewer persons receiving care.

(b) Buildings that do not contain more than 2 dwelling units.

(c) Boarding houses (nontransient) with 16 or fewer occupants.

(d) Boarding houses (transient) with 10 or fewer occupants.

(e) Congregate living facilities (nontransient) with 16 or fewer occupants.

(f) Congregate living facilities (transient) with 10 or fewer occupants.

(g) Foster family homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for not more than 4 minor children.

(h) Foster care family group homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 4 but fewer than 7 minor children.

~~310.5.1-~~**310.4.1** Care facilities within a dwelling. Care facilities that are located within a single-family dwelling may comply with the Michigan residential code if 1 of the following conditions is met:

(a) Adult foster care family homes or adult foster care small group homes for 6 or fewer persons receiving care that are within a single-family dwelling and licensed in accordance with the adult foster care facility licensing act, 1979 PA 218, MCL 400.701 to 400.737.

(b) Family child care homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for fewer than 7 minor children.

(c) Group child care homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 6 but not more than 12 minor children.

(d) Foster family homes licensed per the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for not more than 4 minor children.

(e) Foster care family group homes licensed per the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 4 but fewer than 7 minor children. 903.2.8.3. Child care organizations. An automatic sprinkler system installed in accordance with section 903.3.1.3 shall be permitted in child care organizations that are within a single-family dwelling and licensed in accordance with the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, as follows:

(a) Foster family homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 4 but fewer than 7 minor children.

(b) Foster care family group homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 4 but fewer than 7 minor children.

(c) Family child care homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for fewer than 7 minor children.

(d) Group child care homes licensed under the child care organizations act, 1973 PA 116, MCL 722.111 to 722.127a, that provide care for more than 6 but not more than 12 minor children.

~~903.3.8.1. Number of sprinklers. Limited area sprinkler systems shall not exceed 20 sprinklers.~~

~~903.3.8.5. Calculations. Hydraulic calculations in accordance with NFPA 13 shall be provided to demonstrate that the available water flow and pressure are adequate to supply all sprinklers installed with discharge densities corresponding to the hazard classification.~~

R 408.30404 ~~Duties and powers of building official~~**Department of building safety.**

Rule 404. Section ~~104.9~~**103.3** of the code is amended to read as follows:

~~104.9~~**103.3. Approved materials and equipment. Materials, equipment, and devices shall be constructed or installed in accordance with approvals granted under the act or by the building official. The building official shall review reports prepared by recognized evaluation services and determine if the intent of the code is met.****In accordance with the prescribed procedures of this jurisdiction and with the concurrence of the appointing authority the building official shall have the authority to appoint a deputy building official, the related technical officers, inspectors, plan examiners and other employees if licensed pursuant to the Skilled Trades Regulation Act, 2016 PA 407, MCL 339.5101 to 339.6133, such employees shall have powers as delegated by the building official. For the maintenance of existing properties, see the International Property Maintenance Code.**

R 408.30405 Professional architectural and engineering services.

Rule 405. Section 107.1 of the code is amended to read as follows:

107.1. Submittal documents. Construction documents, special inspection and structural programs and other data shall be submitted in 1 or more sets with each application for a permit. The construction documents shall be prepared by, or under the direct supervision of, a registered design professional when required by 1980 PA 299, MCL 339.101 to 339.2919. Where special conditions exist, the building official is authorized to require additional construction documents to be prepared by a registered design professional.

R 408.30406 **Duties and powers of building official.**

Rule 406. Section 104.6 of the code is amended to read as follows:

104.6. Right of entry. If such structure or premises is unoccupied, the building official shall first make a reasonable effort to locate the owner or other person having charge or

control of structure or premises and request entry. If entry is refused, the building official shall have recourse to the remedies provided by law to secure entry.

R 408.30408 ~~Fees~~**Rescinded.**

Rule 408. ~~Section 109.1 of the code is amended to read as follows:~~

~~109.1. Payment of fees. The fees prescribed by the act shall be paid to the enforcing agency of the jurisdiction before a permit to begin work for new construction, alteration, removal, demolition, or other building operation may be issued. In addition, an amendment to a permit necessitating an additional fee shall not be approved until the additional fee has been paid.~~

R 408.30409 Permit.

Rule 409. ~~Sections 105.1.1, 105.1.2, and Section 105.2 of the code are~~is amended to read as follows:

~~105.1.1. Annual permit. In place of an individual permit for each alteration to an already approved electrical, gas, mechanical, or plumbing installation, the enforcing agency is authorized to issue an annual permit upon application to any person, firm, or corporation. The applicant shall be licensed in accordance with the requirements of 1956 PA 217, MCL 338.881 to 338.892, 1984 PA 192, MCL 338.971 to 33~~

~~8.988, or 2002 PA 733, MCL 338.3511 to 338.3569.~~

~~105.1.2. Annual permit records. The person to whom an annual permit is issued shall keep a detailed record of alterations made under an annual permit. Access to the records shall be provided at all times and the records shall be filed with the enforcing agency.~~

105.2. Work exempt from permit. Exemptions from permit requirements of the code shall not be deemed to grant authorization for any work to be done in any manner in violation of the provisions of the code or any other laws or ordinances of this jurisdiction. Permits shall not be required for any of the following:

(a) Building permits shall not be required for any of the following:

(i) One-story detached accessory structures used as tool and storage sheds, playhouses and similar uses, provided the floor area does not exceed 120 square feet (11).

(ii) A fence that is not more than 7 feet (2 134 mm) high.

(iii) Oil derricks.

(iv) A retaining wall that is not more than 4 feet (1219 mm) in height measured from the bottom of the footing to the top of the wall, unless supporting a surcharge or impounding class I, II or III-A liquids.

(v) A water tank supported directly on grade if the capacity is not greater than 5,000 gallons (18 925 L) and the ratio of height to diameter or width is not greater than 2 to 1.

(vi) A sidewalk and driveway not more than 30 inches (762 mm) above adjacent grade and -not over any basement or story below and are not part of an accessible route.

(vii) Painting, papering, tiling, carpeting, cabinets, counter tops, and similar finish work.

(viii) Temporary motion picture, television, and theater stage sets and scenery.

(ix) Prefabricated swimming pools accessory to a group R-3 occupancy, as applicable in section 101.2, that are less than 24 inches (610 mm) deep, are not greater than 5,000 gallons (18 925 L), and are installed entirely above ground.

(x) Shade cloth structures constructed for nursery or agricultural purposes, not including service systems.

(xi) Swings and other playground equipment accessory to detached 1- and 2-family dwellings.

(xii) Window awnings in group R-3 and U occupancies, supported by an exterior wall that do not project more than 54 inches (1 372 mm) from the exterior wall and do not require additional support, as applicable in section 101.2 and group U occupancies.

(xiii) Nonfixed and movable fixtures, cases, racks, counters, and partitions not over 5 feet 9 inches (1 753 mm) in height.

(b) Electrical permits shall not be required, as in accordance with the Michigan electrical code, R 408.30801 to R 408.30880, for any of the following:

(i) Repairs and maintenance: Minor repair work, including the replacement of lamps or the connection of approved portable electrical equipment to approved permanently installed receptacles.

(ii) Radio and television transmitting stations: The provisions of the code do not apply to electrical equipment used for radio and television transmissions, but do apply to equipment and wiring for power supply and to the installation of towers and antennas.

(iii) Temporary testing systems: A permit is not required for the installation of any temporary system required for the testing or servicing of electrical equipment or apparatus.

(c) Mechanical permits shall not be required for any of the following:

(i) A portable gas heating appliance that has inputs of less than 30,000 Btu's per hour.

(ii) Portable ventilation appliances and equipment.

(iii) Portable cooling unit.

(iv) Steam, hot water, or chilled water piping within any heating or cooling equipment or appliances regulated by this code.

(v) Replacement of any minor part that does not alter the approval of equipment or an appliance or make such equipment or appliance unsafe.

(vi) A portable evaporative cooler.

(vii) Self-contained refrigeration systems that contain 10 pounds (4.5 kg) or less of refrigerant, or that are actuated by motors of 1 horsepower (0.75 kW) or less.

(viii) Portable fuel cell appliances that are not connected to a fixed piping system and are not interconnected to a power grid.

(ix) An oil burner that does not require connection to a flue, such as an oil stove and a heater equipped with a wick.

(x) A portable gas burner that has inputs of less than 30,000 Btu's per hour.

(xi) When changing or relocating a gas meter or regulator, a permit is not required when installing gas piping which shall be limited to 10 feet (3 005 mm) in length and not more than 6 fittings.

(xii) When installing geothermal vertical closed loops under the supervision of a mechanical contractor licensed in HVAC as long as the company meets both the following:

(A) Has obtained a certificate of registration as a well drilling contractor pursuant to part 127 of the public health code.

(B) Has installed the geothermal vertical closed loops in accordance with the department of environmental quality best practices regarding geothermal heat pump closed loops. Exemption from the permit requirements of this code shall not be deemed to grant authorization for work to be done in violation of the provisions of this code or other laws or ordinances of this jurisdiction.

(d) Plumbing permits shall not be required for either of the following:

(i) The stopping of leaks in drains, water, soil, waste, or vent pipe. However, if any concealed trap, drainpipe, water, soil, waste, or vent pipe becomes defective and it becomes necessary to

remove and replace the drain or pipe with new material, then the work is considered new work and a permit shall be obtained and inspection made as provided in the code.

(ii) The clearing of stoppages or the repairing of leaks in pipes, valves, or fixtures, and the removal and reinstallation of water closets, if the repairs do not involve or require the replacement or rearrangement of valves, pipes, or fixtures.

R 408.30410 ~~Violations~~Rescinded.

~~Rule 410. Section 114.4 of the code is amended to read as follows:~~

~~114.4. Violation penalties. It is unlawful for any person, firm, or corporation to violate a provision of the code or fail to conform with any of the requirements thereof, or erect, construct, alter, extend, repair, move, remove, demolish, or occupy any building, structure, or equipment regulated by the code, or cause work to be performed or done, in conflict with or in violation of the approved construction documents or directive of the enforcing agency, or a permit or certificate issued under the code. A violator shall be assessed a fine in accordance with the act.~~

R 408.30411 ~~Stop work order~~Rescinded.

~~Rule 411. Section 115.2 of the code is amended to read as follows:~~

~~115.2. Issuance. Notice shall be in accordance with the act. A person who is served with a stop work order, except for work that the person is directed to perform to remove a violation or unsafe condition is subject to the penalty provisions prescribed in the act.~~

R 408.30412 ~~Certificate of use and occupancy~~Rescinded.

~~Rule 412. Sections 111.1 and 111.2 of the code are amended to read as follows:~~

~~111.1. Use and occupancy. A building or structure shall not be used or occupied, and a change in the existing occupancy classification of a building or structure or portion thereof shall not be made until a certificate of occupancy has been issued in accordance with the act.~~

~~Exception: Certificates of occupancy are not required for work exempt from permits under section 105.2.~~

~~111.2. Certificate issued. After the building official inspects the building or structure and finds no violations of the provisions of this code or other laws that are enforced by the department and all permit and plan review fees are paid, the building official shall issue a certificate of occupancy that contains all of the following:~~

~~(a) The building permit number.~~

~~(b) The address of the structure.~~

~~(c) A description of that portion of the structure for which the certificate is issued.~~

~~(d) A statement that the described portion of the structure has been inspected for compliance with the requirements of this code for the occupancy and division of occupancy and the use for which the proposed occupancy is classified.~~

~~(e) The name and signature of the building official or designee, registered in accordance with the building officials and inspectors registration act, 1986 PA 54, MCL 338.2301 to 338.2313.~~

~~(f) The edition of the code under which the permit was issued.~~

~~(g) The use and occupancy, in accordance with the provisions of chapter 3.~~

~~(h) The type of construction as defined in chapter 6.~~

~~(i) The design occupant load.~~

~~(j) If an automatic sprinkler system is provided, whether the sprinkler system is required.~~

~~(k) Any special stipulations and conditions of the building permit.~~

R 408.30414 ~~Board of appeals~~ **Barrier free appeals board.**

Rule 414. ~~Sections~~ **Section 113.1 and 113.3** of the code ~~are~~ is amended to read as follows:

113.1. Means of appeal. ~~An interested person may appeal a decision of the enforcing agency to the board of appeals in accordance with the act. An application for appeal shall be based on a claim that the true intent of the code or the rules governing construction have been incorrectly interpreted, the provisions of the code do not apply, or an equal or better form of construction is proposed. The decision of a local board of appeals may be appealed to the construction code commission in accordance with the act and time frames.~~

~~Exception:~~ Requests for barrier free design exception shall be in accordance with 1966 PA 1, MCL 125.1352 to 125.1356.

~~113.3. Qualifications. The board of appeals shall consist of members who are qualified in accordance with the act and are not employees of the governmental subdivision or the agency enforcing the code.~~

R 408.30415 **Floor and roof design loads.**

Rule 415. Section 107.5 of the code is amended to read as follows:

107.5. Retention of construction documents. One set of approved construction documents shall be retained by the building official for a period, as required by state or local laws.

R 408.30415a Definitions.

Rule 415a. The definitions of act, ~~agricultural or agricultural purposes, and source point attic uninhabitable, and attic, uninhabitable without storage~~ are added and the ~~definitions~~ **definition** of ~~building, building inspector, building official, high rise building, registered design professional, and structure~~ in section 202 of the code ~~are~~ is amended to read as follows:

202. Definitions.

“Act” means 1972 PA 230, MCL 125.1501 to 125.1531 and known as the Stille-DeRossett-Hale single state construction code act.

~~“Agricultural or agricultural purposes” means of, or pertaining to, or connected with, or engaged in agriculture or tillage which is characterized by the act or business of cultivating or using land and soil for the production of crops for the use of animals or humans, and includes, but is not limited to, purposes related to agriculture, farming, dairying, pasturage, horticulture, floriculture, viticulture, and animal and poultry husbandry.~~

“Attic, uninhabitable with limited storage” means uninhabitable attics with limited storage are those where the minimum clear height between joists and rafters is 42 inches or greater, 42 inches high by 24 inches in width, or greater, within the plane of the trusses, or where there are not two or more adjacent trusses with web configurations capable of accommodating an assumed rectangle.

“Attic, uninhabitable without storage” means uninhabitable attics without storage are those where the maximum clear height between joists and rafters is less than 42 inches, or where there are not 2 or more adjacent trusses with web configurations capable of accommodating an assumed rectangle 42 inches high by 24 inches in width or greater, within the plane of the trusses.

~~“Building” means a combination of materials, whether portable or fixed, forming a structure affording a facility or shelter for use or occupancy by persons, animals, or property. The term does not include a building incidental to the use for agricultural purposes of the land on which the building is located if it is not used in the business of retail trade. The term shall be construed~~

as though followed by the words "or part or parts of the building and all equipment in the building" unless the context clearly requires a different meaning.

"Building official" as found in 1972 PA 230, MCL 125.1501 to 125.1531 and known as the Stille DeRossett Hale single state construction code act, means an individual who is employed by a governmental subdivision and is charged with the administration and enforcement of the code and who is registered in compliance with the building officials and inspectors registration act, 1986 PA 54, MCL 338.2301 to 338.2313. A building official may also be an employee of a private organization.

"High rise building" means a building with an occupied floor located more than 55 feet (1 6764 mm) above the lowest level of fire department vehicle access.

"Registered design professional" means an individual who is licensed under, 1980 PA 299, MCL 339.101 to 339.2919.

"Structure" means that which is built or constructed, an edifice or building of any kind, or a piece of work artificially built up or composed of parts joined together in some definite manner. Structure does not include a structure incident to the use for agricultural purposes of the land on which the structure is located and does not include works of heavy civil construction, including without limitation, any of the following:

- (a) A highway.
- (b) A bridge.
- (c) A dam.
- (d) A reservoir.
- (e) A lock.
- (f) A mine.
- (g) A harbor.
- (h) A dockside port facility.
- (i) An airport landing facility.
- (j) A facility for the generation, or transmission, or distribution of electricity.

Structure shall be construed as though followed by the words "or part or parts of the structure and all equipment in the structure," unless the context clearly indicates otherwise.

"Source point" is defined in section 4 of 1972 PA 230, MCL 125.1504d.

R 408.30417 Inspections.

Rule 417. Section 110.1 of the code is amended to read as follows:

110.1. General. Construction or work for which a permit is required shall be subject to inspection by the building official and such construction or work shall remain accessible and exposed for inspection purposes until approved. It shall be the duty of the owner or the owner's authorized agent to cause the work to remain accessible and exposed for inspection purposes. Neither the building official nor the jurisdiction shall be liable for expense entailed in the removal or replacement of any material required to allow inspection.

R 408.30418 Maximum floor area allowances per occupant. **Rescinded.**

Rule 418. Table 1004.1.21004.5 of the code is amended to read as follows:

Table 1004.1.21004.5
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	FLOOR AREA IN SQ. FT. PER
Agricultural building	300 gross
Aircraft hangars	500 gross
Airport terminal	
Baggage claim	20 gross
Baggage handling	300 gross
Concourse	100 gross
Waiting areas	15 gross
Assembly	
Gaming floors (keno, slots, etc.)	11 gross
Exhibit Gallery and Museum	30 net
Assembly with fixed seats	See section 1004.4
Assembly without fixed seats	
Concentrated (chairs only not fixed) Standing space	7 net
Unconcentrated (tables and chairs)	5 net
	15 net
Bowling centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business areas	100 gross
Courtrooms other than fixed seating areas	40 net
Day care	35 net
Dormitories	50 gross
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Locker rooms	15 gross
Exercise rooms	50 gross
H-5 Fabrication and manufacturing areas	200 gross
Industrial areas	100 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Library	
Reading rooms	50 net
Stack area	100 gross
Mall buildings covered and open	See Section 402.8.2
Locker rooms	50 gross

Mercantile	60 gross
Storage, stock, shipping areas	300 gross
Parking garages	200 gross
Residential	200 gross
Skating rinks, swimming pools	
Rink and pool	50 gross
Decks	15 gross
Stages and platforms	15 net
Accessory storage areas, mechanical equipment room	300 gross
Warehouses	500 gross

~~For SI: 1 square foot = 0.0929 m²~~

R 408.30419 Toilet room requirements.

Rule 419. Sections ~~1210.1, 1209.1~~, is amended and ~~1210.4, 1209.4~~, and ~~1210.5, 1209.5~~, and ~~1210.6~~ are added to the code to read as follows:

~~1210.1-1209.1~~. Required fixtures. The number and type of plumbing fixtures provided in any occupancy shall comply with the Michigan plumbing code.

~~1210.4-1209.4~~. Toilet room location. Toilet rooms shall not open directly into a room used for the preparation of food for service to the public.

~~1210.5-1209.5~~. Baby changing stations. A building or structure that has baby changing stations in the women's restrooms shall have baby changing stations in the men's restrooms.

~~1210.6~~. Directional signage. ~~Directional signage indicating the route to the public facilities shall be posted in accordance with section 3107 of the international building code. Signage shall be located in a corridor or aisle at the entrance to the facilities for customers and visitors.~~

R 408.30421 Emergency escape and rescue.

Rule 421. Sections 1025.1 and 1030.1 of the code are amended and 1016.2.2 is added to read as follows:

1016.2.2. Group E. Egress from classrooms in group E occupancies shall be limited to pass through 1 intervening space before reaching an exit access door leading directly to a corridor or an exit.

1025.1. General. Approved luminous egress path markings delineating the exit path shall be provided in buildings with an occupied floor located more than 75 feet (16 764 mm) above the lowest level of fire department vehicle access of groups A, B, E, I, M, and R-I occupancies in accordance with sections 1024.1 to 1024.5.

1030.1. General. In addition to the means of egress required by this chapter, provisions shall be made for emergency escape and rescue in group R occupancies as applicable in section 101.2. Basements and sleeping rooms below the fourth story above grade plane shall have at least 1 exterior emergency escape and rescue opening in accordance with this section. Where basements contain 1 or more sleeping rooms, emergency egress and rescue openings shall be

required in each sleeping room, but shall not be required in adjoining areas of the basement. The opening shall open directly into a public street, public alley, yard, or court.

Exceptions:

1. In other than group R-3 occupancies as applicable in section 101.2, buildings equipped throughout with an approved automatic sprinkler system in accordance with section 903.3.1.1 or 903.3.1.2.
2. In other than group R-3 occupancies as applicable in section 101.2, sleeping rooms provided with a door to a fire-resistance-rated corridor having access to 2 remote exits in opposite directions.
3. The emergency escape and rescue opening may open onto a balcony within an atrium in accordance with the requirements of section 404, provided the balcony provides access to an exit and the dwelling unit or sleeping unit has a means of egress that is not open to the atrium.
4. Basements with a ceiling height of less than 80 inches (2 032 mm) shall not be required to have emergency escape and rescue openings.
5. High-rise buildings in accordance with section 403.
6. Emergency escape and rescue openings are not required from basements, or sleeping rooms which have an exit door or exit access door that opens directly into a public street, public alley, yard, egress court, or to an exterior exit balcony that opens to a public street, public alley, yard, or egress court.
7. Basements without habitable spaces and having not more than 200 square feet (18.6 square meters) in floor area shall not be required to have emergency escape and rescue openings.

R 408.30427 Barrier free design for buildings, structures, and improved areas.

Rule 427. Sections ~~1101.2~~**1102.1** and 1109.8 of the code are amended and section 1103.2.15 is added to the code to read as follows:

~~1101.2~~**1102.1**. Design. Buildings and facilities shall be designed and constructed to be accessible in accordance with 1966 PA 1, MCL 125.1351 to 125.1356, this code, and ICC/ANSI A 117.1, except sections 611 and 707.

1103.2.15. Military, fire service, and police facilities. Housing, bathing, toilet, training, and storage areas intended for use and occupancy exclusively by military, fire service, police, or security personnel required to be physically agile are not required to be accessible.

1109.8. Lifts. Platform (wheelchair) lifts may be a part of a required accessible route in new construction where indicated in items 1 to 10. Platform (wheelchair) lifts shall be installed in accordance with the Michigan elevator code, R 408.7001 to R 408.8695.

1. An accessible route to a performing area and speakers' platforms.
2. An accessible route to wheelchair spaces required to comply with the wheelchair space dispersion requirements of sections 1108.2.2 to 1108.2.6.
3. An accessible route to spaces that are not open to the general public with an occupant load of not more than 5.
4. An accessible route within a dwelling or sleeping unit.
5. An accessible route to jury boxes and witness stands; raised courtroom stations including judges' benches, clerks' stations, bailiffs' stations, deputy clerks' stations and court reporters' stations; and to depressed areas such as the well of the court.
6. An accessible route to load and unload areas serving amusement rides.
7. An accessible route to play components or self-contained play structures.
8. An accessible route to team or player seating areas serving areas of sport activity.

9. An accessible route instead of gangways serving recreational boating facilities and fishing piers and platforms.

10. An accessible route where existing exterior site constraints make use of a ramp or elevator infeasible.

R 408.30428 Structural integrity.

Rule 428. Section ~~1615.1~~**1616.1** of the code is amended to read as follows:

~~1615.1~~**1616.1**. General. Buildings with an occupied floor 75 feet (22 860 mm) or more in height above the lowest level of fire department vehicle access and assigned to risk category III or IV shall comply with the requirements of this section. Frame structures shall comply with the requirements of section 1615.3. Bearing wall structures shall comply with the requirements of section 1615.4.

R 408.30429 High-rise buildings.

Rule 429. Sections 403.1 and 403.5.4, of the code are amended to read as follows:

403.1. Applicability. The provisions of this section shall apply to buildings having the occupied floors located more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access.

Exception: The provisions of this section shall not apply to the following buildings and structures:

1. Airport traffic control towers in accordance with section 412 of the code.
 2. Open parking garages in accordance with section 406.5 of the code.
 3. Buildings with an occupancy in group A-5 in accordance with section 303.6 of the code.
 4. Special industrial occupancies in accordance with section 503.1.1 of the code.
 5. Buildings with any of the following:
 - 5.1. A group H-1 occupancy.
 - 5.2. A group H-2 occupancy in accordance with section 415.8, 415.9.2, 415.9.3, or 426.1.
 - 5.3. A group H-3 occupancy in accordance with section 415.8.
 6. Existing buildings having occupied floor levels not more than 75 feet (22 860 mm) above the lowest level of fire department vehicle access where the local unit of government complies with both of the following:
 - 6.1. The local unit of government has a municipal fire department with an ISO rating of 3 or lower, employing a full-time career firefighting staff.
 - 6.2. The governing body of the local unit of government has passed a resolution affirming the use of this exception and filed that resolution with the department of licensing and regulatory affairs, bureau of construction codes.
- 403.5.4. Smokeproof exit enclosures. Every required stairway serving floors more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access shall comply with sections 909.20 and 1023.10 of the code.

R 408.30429b Elevator lobby.

Rule 429b. Section 713.14.1 of the code is ~~amended~~**added** to read as follows:

713.14.1. An enclosed elevator lobby shall be provided at each floor where an elevator shaft enclosure connects more than 3 stories. The lobby enclosure shall separate the elevator shaft enclosure doors from each floor by fire partitions. In addition to the requirements in section 708

for fire partitions, doors protecting openings in the elevator lobby enclosure walls shall also be in compliance with section 716.5.3 as required for corridor walls and penetrations of the elevator lobby enclosure by ducts and air transfer openings shall be protected as required for corridors in accordance with section 717.5.4.1. Elevator lobbies shall have at least 1 means of egress complying with chapter 10 and other provisions within this code.

Exceptions:

1. Enclosed elevator lobbies are not required at the level or levels of exit discharge provided the level or levels of exit discharge is equipped with an automatic sprinkler system in accordance with section 903.3.1.1.
2. Elevators not required to be located in a shaft in accordance with section 712.1 are not required to have enclosed elevator lobbies.
3. Enclosed elevator lobbies are not required where additional doors are provided at the hoistway opening in accordance with section 3002.6. The doors shall comply with the smoke and draft control door assembly requirements in section 716.5.3.1 when tested in accordance with UL 1784 without an artificial bottom seal.
4. Enclosed elevator lobbies are not required where the building is protected by an automatic sprinkler system installed in accordance with section 902.2.1.1 or 903.3.1.2. This exception shall not apply to all of the following:
 - 4.1. Group I-2 occupancies.
 - 4.2. Group I-3 occupancies.
 - 4.3. Elevator serving floor levels over 55 feet above the lowest level of fire department vehicle access in high-rise buildings.
5. Smoke partitions may be in place of fire partitions to separate the elevator lobby at each floor where the building is equipped throughout with an automatic sprinkler system installed in accordance with section 903.3.1.1 or 903.3.1.2. In addition to the requirements in section 710 for smoke partitions, doors protecting openings in the smoke partitions shall also be in compliance with sections 710.5.2.2, 710.5.2.3, and 716.5.9 and duct penetrations of the smoke partitions shall be protected as required for corridors in accordance with section 717.5.4.1.
6. Enclosed elevator lobbies are not required where the elevator hoistway is pressurized in accordance with section 909.21.
7. Enclosed elevator lobbies are not required where the elevator serves only open parking garages in accordance with section 406.5.

R 408.30430 Liquefied petroleum gas distribution facilities.

Rule 430. Sections 415.9.1 and 415.9.2 of the code are amended to read as follows:

415.9.1. Flammable and combustible liquids. The storage, handling, processing, and transporting of flammable and combustible liquids shall be in accordance with the Michigan mechanical code, R 408.30901 to R 408.30998, and the international fire code listed in chapter 35, and the requirements of the Michigan rules for the storage and handling of flammable and combustible liquids, R 29.4101 to R 29.5516.

415.9.2. Liquefied petroleum gas distribution facilities. The design and construction of propane, butane, propylene, butylene, and other liquefied petroleum gas distribution facilities shall conform to the applicable provisions of the Michigan liquefied petroleum gas code, R 29.3801 to R 29.4035. The storage and handling of liquefied petroleum gas systems shall conform to the international fire code listed in chapter 35. The design and installation of piping, equipment, and systems that utilize liquefied petroleum gas shall be in accordance with the

international fuel gas code listed in chapter 35. Liquefied petroleum gas distribution facilities shall be ventilated in accordance with the Michigan mechanical code, R 408.30901 to R 408.30998, and the requirements of the Michigan rules for the storage and handling of flammable and combustible liquids, R 29.4101 to R 29.5516.

R 408.30441 Consumer fireworks facilities.

Rule 441. Sections 307.5.1, 415.1.1, ~~427.1429.1~~, 509.4.2.2, 907.2.5.1, 910.2.3, and 1031.1 of the code are added to read as follows:

307.5.1. High-hazard group H-3. Consumer fireworks 1.4G (class C common) Consumer fireworks 1.4G facilities shall meet the requirements of this code and those requirements of this code and those requirements referenced in section 427.1.

415.1.1. Consumer fireworks facilities 1.4 G (class C common) consumer fireworks 1.4 G facilities shall be designed and constructed in accordance with NFPA 1124 as referenced by the Michigan fireworks safety act, 2011 PA 256, MCL 28.451 to 28.471.

~~427.1429.1~~. Consumer fireworks (1.4G) facilities. The items in buildings used for the retail sale of consumer fireworks shall be designed and constructed in accordance with NFPA 1124, as referenced by the Michigan fireworks safety act, 2011 PA 256, MCL 28.451 to 28.471 as follows:

- (a) Means of egress.
- (b) Storage rooms.
- (c) Fire alarms.
- (d) Smoke control.
- (e) Automatic sprinkler systems.

509.4.2.2. Consumer fireworks (1.4G) facilities storage rooms. Storage rooms in consumer fireworks (1.4G) facilities used for the retail sale of consumer fireworks shall be designed and constructed in accordance with the code for the manufacture, transportation, storage, and retail sales of fireworks and pyrotechnic articles, NFPA 1124, as referenced by the Michigan fireworks safety act, 2011 PA 256, MCL 28.451 to 28.471.

907.2.5.1. Consumer fireworks (1.4G) facilities fire alarms. Fire alarm systems in consumer fireworks (1.4G) facilities used for the retail sale of consumer fireworks storage shall be designed and constructed in accordance with the code for the manufacture, transportation, storage, and retail sales of fireworks and pyrotechnic articles, NFPA 1124, as referenced by the Michigan fireworks safety act, 2011 PA 256, MCL 28.451 to 28.471.

910.2.3. Consumer fireworks (1.4G) facilities smoke and heat vents. Smoke and heat vents in consumer fireworks (1.4G) facilities used for the retail sale of consumer fireworks storage shall be designed and constructed in accordance with the code for the manufacture, transportation, storage, and retail sales of fireworks and pyrotechnic articles, NFPA 1124, as referenced by the Michigan fireworks safety act, 2011 PA 256, MCL 28.451 to 28.471.

1031.1. Consumer fireworks (1.4G) facilities means of egress. The means of egress in consumer fireworks (1.4G) facilities used for the retail sale of consumer fireworks means of egress shall be designed and constructed in accordance with the code for the manufacture, transportation, storage, and retail sales of fireworks and pyrotechnic articles, NFPA 1124, as referenced by the Michigan fireworks safety act, 2011 PA 256, MCL 28.451 to 28.471.

R 408.30442 Automatic sprinkler systems.

Rule 442 . Sections 903.2.8, ~~903.2.8.2~~, **903.2.8.4**, 903.2.5, and 903.2.5.1 are amended and section 903.2.5.4 is added to the code to read as follows:

903.2.8. Group R. An automatic sprinkler system installed in accordance with section 903.3 shall be provided throughout all buildings with a Group R fire area.

Exception: Camp buildings in remote areas without municipal water supply that meet all of the following:

1. Not more than 1 story, 2000 square feet (186 m²) and 25 occupants.
2. Are used not more than 5 months in a year.
3. Shall be provided with not less than 2 exits in compliance with section 1019.
4. Shall not be provided with cooking equipment.
5. Provided with a manual fire alarm system and smoke alarms throughout in compliance with NFPA 72 as listed in chapter 35. For cabins sleeping 4 or fewer occupants only, smoke alarms are required.
6. Storage and equipment rooms shall be protected by a 1-hour fire partition.
7. Compliance with all applicable requirements of the code.

~~903.2.8.2~~ **903.2.8.** Adult foster care family homes. An automatic sprinkler system installed in accordance with section 903.3.1.3 shall be permitted in adult foster care family homes or adult foster care small group homes for 6 or fewer persons receiving care that are within a single-family dwelling and licensed in accordance with the adult foster care facility licensing act, 1979 PA 218, MCL 400.701 to 400.737.

903.2.5. Group H. Automatic sprinkler systems shall be provided in high-hazard occupancies as required in sections 903.2.5.1 to 903.2.5.4.

903.2.5.1. General. An automatic sprinkler system shall be installed in group H occupancies unless the requirements of section 903.2.5.4 are met for buildings containing consumer fireworks.

903.2.5.4. Consumer fireworks (1.4G). Buildings used for the retail sale of consumer fireworks shall be provided with an automatic sprinkler system in accordance with the Michigan fireworks safety act, 2011 PA 256, MCL 28.451 to 28.471.

~~R 408.30443~~ ~~Masonry~~. **Rescinded.**

Rule 443. ~~Section 1405.4.2 of the code is amended to read as follows:~~

~~1405.4.2. Masonry. Flashing and weep holes shall be located in the first course of masonry above finished ground level above the foundation wall or slab; at the heads of windows, doors, and other wall openings; at window sills and at other points of support including structural floors, shelf angles, and lintels where anchored veneers are designed in accordance with section 1405.6. Flashing shall extend to, or beyond, the finished face of the wall.~~

R 408.30445 Automatic sprinkler systems.

Rule 445. Section 903.2.11.3 of the code is amended to read as follows:

903.2.11.3. Buildings more than 30 feet (9144 mm) in height. An automatic sprinkler system shall be installed throughout a building that has a floor level which has an occupant load of 30 or more occupants and which is located 30 feet (9144 mm) or more above the lowest level of fire department vehicle access.

Exceptions:

1. Open parking structures.
2. Occupancies in group F-2.

3. Existing buildings having occupied floor levels not more than 55 feet (16764 mm) in height above the lowest level of fire department vehicle access, where the local unit of government complies with the following parameters:

3.1. The local unit of government having a municipal fire department with an ISO rating of 3 or lower, employing a full-time career fire fighting staff.

3.2. The governing body of the local unit of government has passed a resolution affirming the use of this exception and filed that resolution with the department of licensing and regulatory affairs, bureau of construction codes .

R 408.30446 Smoke alarm locations.

Rule 446. Sections ~~907.2.11.8~~**907.2.10.8** and ~~907.2.11.8.1~~**907.2.10.8.1** are added to the code as follows:

~~907.2.11.8~~**907.2.10.8**. Smoke alarm locations in existing buildings constructed before November 6, 1974. Within each dwelling unit or sleeping unit, a single-station smoke alarm shall be installed in all of the following locations:

- (1) In each sleeping room or each area directly outside the sleeping room.
- (2) On each floor level including the basement level.

For sleeping units with split levels and without an intervening door between the adjacent levels, a smoke alarm installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than 1 full story below the upper level.

~~907.2.11.8.1~~**907.2.10.8.1**. Equipment requirements. The required equipment for smoke alarms shall consist of the following:

(1) Installation. Smoke alarm devices shall be listed and installed in accordance with the manufacturer's installation requirements, the provisions of the code, and the provisions of NFPA 72 as listed in chapter 35.

(2) Power Source. The equipment shall be operable by power from 1 of the following primary sources:

(a) The building wiring provided the wiring is served from a commercial source and is equipped with a battery backup. Wiring shall be permanent and without a disconnecting switch other than as required for overcurrent protection.

(b) A non-rechargeable battery able to power the smoke alarm in the normal condition for a life of 5 years.

(c) A rechargeable battery, with proper charging, able to power the alarm for a life of 5 years.

(d) A commercial use alarm system with battery backup listed and approved in accordance with the commercial fire warning equipment provisions of NFPA 72, as adopted by reference in this rule.

(3) Audible Alarm Notification. The activation of the alarm signal shall produce a sound that is audible in all occupiable dwelling areas.

(4) Testing and Maintenance. The owner of a dwelling unit, in which required or optional fire detection or fire protection systems equipment is installed, shall be responsible for the proper operation, testing, and maintenance of the equipment in accordance with the manufacturer's instructions included with the equipment. The occupant of rental dwelling units shall be responsible for the periodic operational testing and periodic cleaning of the installed equipment within the rental unit in accordance with the testing instructions provided in the manufacturer's instructions for the equipment. If the system fails, breaks, or is out of service, it shall be repaired and functional within 30 days.

Exception: Smoke alarms and devices installed in buildings constructed before November 6, 1974 where an installation was approved by the appropriate enforcing agency under regulations in effect at the time of the installation shall be considered to comply with the provisions of the code.

R 408.30447 Smokeproof enclosures.

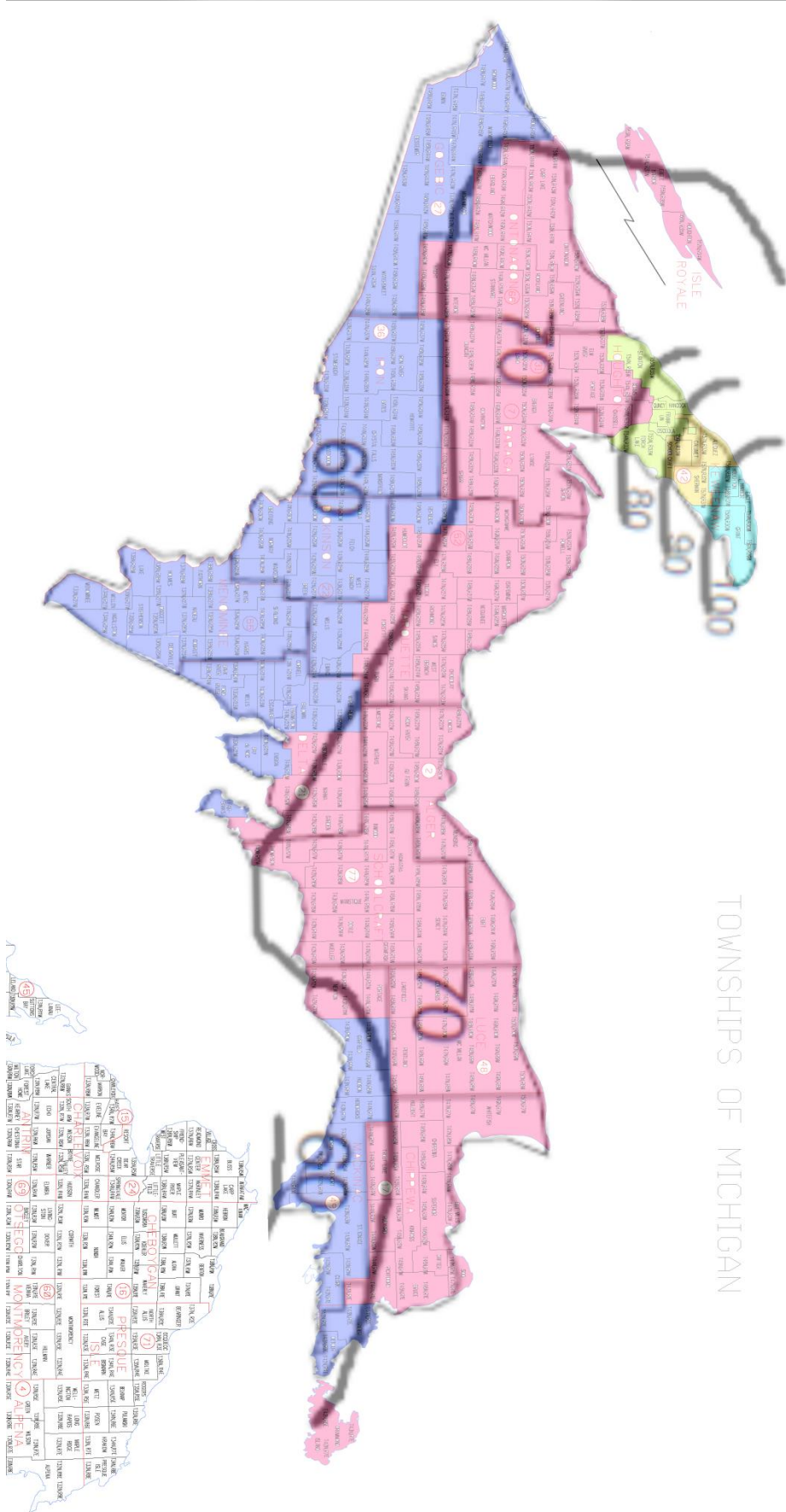
Rule 447. Section 1023.11 of the code is amended to read as follows:

1023.11. Smokeproof enclosures. In buildings required to comply with section 403 or 405 of the code, each of the exits of a building that serves stories where the floor surface is located more than 55 feet (16 764 mm) above the lowest level of fire department vehicle access or more than 30 feet (9 144 mm) below the level of exit discharge serving such floor levels shall be a smokeproof enclosure or pressurized stairway in accordance with section 909.20 of the code.

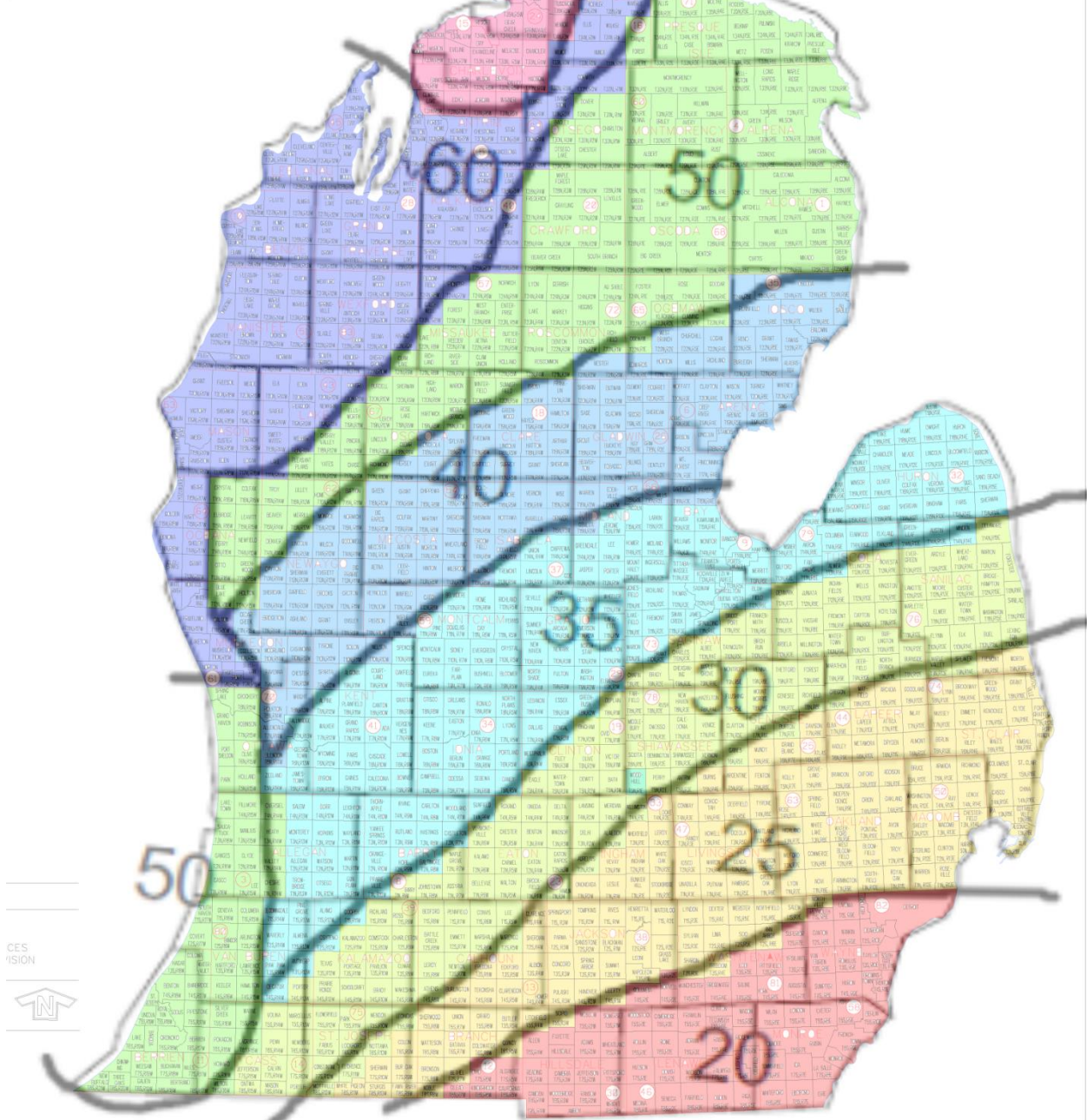
R 408.30448d Ground snow loads.

Rule 448d. Figure 1608.2 of the code is amended **and Table 1608.3 is added** to read as follows:

FIGURE 1608.2
Ground Snow Loads



TOWNSHIPS OF MICHIGAN



**Table 1608.3
Michigan Ground Snow Loads by Jurisdiction**

COUNTY	GROUND SNOW LOAD	JURISDICTIONS
ALCONA	50	All
ALGER	70	All
ALLEGAN	50	All except:
	35	CITY OF ALLEGAN CITY OF OTSEGO CITY OF PLAINWELL CITY OF WAYLAND VILLAGE OF HOPKINS VILLAGE OF MARTIN TOWNSHIP OF ALLEGAN TOWNSHIP OF DORR TOWNSHIP OF GUN PLAIN TOWNSHIP OF HOPKINS TOWNSHIP OF LEIGHTON TOWNSHIP OF MARTIN TOWNSHIP OF MONTEREY TOWNSHIP OF OTSEGO TOWNSHIP OF SALEM TOWNSHIP OF TROWBRIDGE TOWNSHIP OF WATSON TOWNSHIP OF WAYLAND
ALPENA	50	All
ANTRIM	60	All except:
	70	TOWNSHIP OF BANKS TOWNSHIP OF CENTRAL LAKE TOWNSHIP OF ECHO TOWNSHIP OF JORDAN TOWNSHIP OF WARNER
ARENAC	40	All
BARAGA	70	All
BARRY	35	All except:
	30	VILLAGE OF NASHVILLE TOWNSHIP OF ASSYRIA TOWNSHIP OF BARRY TOWNSHIP OF JOHNSTOWN TOWNSHIP OF MAPLE GROVE
BAY	35	All except:

	40	CITY OF PINCONNING TOWNSHIP OF FRASER TOWNSHIP OF GARFIELD TOWNSHIP OF GIBSON TOWNSHIP OF MT. FOREST TOWNSHIP OF PICONNING
BAY	35	All except:
	40	CITY OF PINCONNING TOWNSHIP OF FRASER TOWNSHIP OF GARFIELD TOWNSHIP OF GIVSON TOWNSHIP OF MT. FOREST TOWNSHIP OF PINCONNING
BENZIE	60	All
BERRIEN	50	All
BRANCH	25	All except:
	20	TOWNSHIP OF ALGANSEE TOWNSHIP OF CALIFORNIA TOWNSHIP OF GILEAD TOWNSHIP OF KINDERHOOK TOWNSHIP OF OVID
CALHOUN	25	All except:
	30	CITY OF BATTLE CREEK CITY OF MARSHALL CITY OF SPRINGFIELD VILLAGE OF ATHENS TOWNSHIP OF ATHENS TOWNSHIP OF BATTLE CREEK TOWNSHIP OF BEDFORD TOWNSHIP OF CONVIS TOWNSHIP OF EMMET TOWNSHIP OF LEE TOWNSHIP OF LEROY TOWNSHIP OF MARENGO TOWNSHIP OF MARSHALL TOWNSHIP OF NEWTON TOWNSHIP OF PENNFIELD
CASS	30	All except:

	50	CITY OF DOWAGIAC VILLAGE OF CASSOPOLIS VILLAGE OF EDWARDSBURG TOWNSHIP OF HOWARD TOWNSHIP OF LA GRANGE TOWNSHIP OF MILTON TOWNSHIP OF POKAGON TOWNSHIP OF SILVER CREEK TOWNSHIP OF WAYNE
CHARLEVOIX	70	All
CHEBOYGAN	70	All except:
	60	CITY OF CHEBOYGAN VILLAGE OF AFTON VILLAGE OF WOLVERINE TOWNSHIP OF ALOHA TOWNSHIP OF BENTON TOWNSHIP OF ELLIS TOWNSHIP OF GRANT TOWNSHIP OF KOEHLER TOWNSHIP OF NUNGA TOWNSHIP OF WALKER TOWNSHIP OF WAVERLY TOWNSHIP OF WILMOT
CHIPPEWA	70	All except:
	60	VILLAGE OF DeTOUR TOWNSHIP OF DeTOUR TOWNSHIP OF RABER
CLARE	40	All except:
	50	TOWNSHIP OF SUMMERFIELD TOWNSHIP OF WINTERFIELD
CLINTON	30	All except:
	35	CITY OF ST. JOHNS VILLAGE OF FOWLER VILLAGE OF MAPLE RAPIDS VILLAGE OF WESTPHALIA TOWNSHIP OF BENGAL TOWNSHIP OF DALLAS TOWNSHIP OF ESSEX TOWNSHIP OF GREENBUSH TOWNSHIP OF LEBANON TOWNSHIP OF WESTPHALIA
CRAWFORD	50	All
	60	All except:
DELTA	60	All except:

	70	TOWNSHIP OF GARDEN TOWNSHIP OF MASONVILLE TOWNSHIP OF NAHMA
DICKINSON	60	All
EATON	30	All except:
	35	VILLAGE OF MULLIKEN VILLAGE OF SUNFIELD TOWNSHIP OF SUNFIELD
EMMET	70	All
GENESEE	30	All except:
	25	CITY OF DAVISON CITY OF FENTON CITY OF GRAND BLANC CITY OF LINDEN VILLAGE OF GAINES VILLAGE OF GOODRICH TOWNSHIP OF ARGENTINE TOWNSHIP OF ATLAS TOWNSHIP OF DAVISON TOWNSHIP OF FENTON TOWNSHIP OF GRAND BLANC TOWNSHIP OF MUNDY
GLADWIN	40	All
GOGEBIC	60	All
GRANDTRAVERSE	60	All
GRATIOT	35	All
HILLSDALE	20	All except:
	25	CITY OF LITCHFIELD TOWNSHIP OF LITCHFIELD TOWNSHIP OF SCIPIO
HOUGHTON	80	All except:
	70	TOWNSHIP OF ADAMS TOWNSHIP OF CHASSELL TOWNSHIP OF DUNCAN TOWNSHIP OF ELM RIVER TOWNSHIP OF LAIRD TOWNSHIP OF PORTAGE
	90	VILLAGE OF CALUMET VILLAGE OF COPPER CITY VILLAGE OF LAKE LINDEN VILLAGE OF LAURIUM TOWNSHIP OF CALUMET TOWNSHIP OF SCHOOLCRAFT

HURON	35	All
INGHAM	25	All except:
	30	CITY OF EAST LANSING CITY OF LANSING CITY OF MASON TOWNSHIP OF ALAIEDON TOWNSHIP OF AURELIUS TOWNSHIP OF DELHI TOWNSHIP OF LANSING TOWNSHIP OF MERIDIAN TOWNSHIP OF WILLIAMSTON
IONIA	35	All
IOSCO	40	All
IRON	60	All
ISABELLA	40	All except:
	35	VILLAGE OF SHEPHERD TOWNSHIP OF CHIPPEWA TOWNSHIP OF COE TOWNSHIP OF FREMONT TOWNSHIP OF LINCOLN TOWNSHIP OF UNION
JACKSON	25	All except:
	20	VILLAGE OF BROOKLYN TOWNSHIP OF COLUMBIA TOWNSHIP OF NORVELL
KALAMAZOO	30	All except:
	35	CITY OF PARCHMENT TOWNSHIP OF ALAMO TOWNSHIP OF COOPR TOWNSHIP OF OSHTEMO
KALKASKA	60	All
KENT	35	All except:
	40	CITY OF CEDAR SPRINGS VILLAGE OF CASNOVIA VILLAGE OF KENT CITY VILLAGE OF SAND LAKE VILLAGE OF SPARTA TOWNSHIP OF NELSON TOWNSHIP OF SOLON TOWNSHIP OF SPARTA TOWNSHIP OF TYRONE
KEWEENAW	90	All except:

	100	TOWNSHIP OF EAGLE HARBOR TOWNSHIP OF GRANT TOWNSHIP OF HOUGHTON
LAKE	60	All except:
	50	TOWNSHIP OF CHASE TOWNSHIP OF CHERRY VALLEY TOWNSHIP OF ELLSWORTH TOWNSHIP OF PINORA TOWNSHIP OF PLEASANT PLAINS TOWNSHIP OF YATES
LAPEER	25	All except:
	30	VILLAGE OF CLIFFORD VILLAGE OF COLUMBIAVILLE VILLAGE OF NORTH BRANCH VILLAGE OF OTTER LAKE TOWNSHIP OF BURLINGTON TOWNSHIP OF BURNSIDE TOWNSHIP OF DEERFIELD TOWNSHIP OF MARATHON TOWNSHIP OF NORTH BRANCH TOWNSHIP OF OREGON TOWNSHIP OF RICH
LEELANAU	60	All
LENAWEE	20	All
LIVINGSTON	25	All
LUCE	70	All
MACKINAC	60	All except:
	70	TOWNSHIP OF NEWTON TOWNSHIP OF PORTAGE
MACOMB	25	All
MANISTEE	60	All
MARQUETTE	70	All except:
	60	TOWNSHIP OF EWING TOWNSHIP OF WELLS TOWNSHIP OF REPUBLIC
MASON	60	All
MECOSTA	40	All
MENOMINEE	60	All
MIDLAND	35	All except:

	40	CITY OF COLEMAN VILLAGE OF SANFORD TOWNSHIP OF EDENVILLE TOWNSHIP OF GENEVA TOWNSHIP OF HOPE TOWNSHIP OF MILLS TOWNSHIP OF WARREN
MISSAUKEE	50	All except:
	60	TOWNSHIP OF BLOOMFIELD TOWNSHIP OF CALDWELL TOWNSHIP OF PIONEER
MONROE	20	All
MONTCALM	35	All except:
	40	VILLAGE OF HOWARD CITY VILLAGE OF LAKEVIEW VILLAGE OF PIERSON TOWNSHIP OF CATO TOWNSHIP OF MAPLE VALLEY TOWNSHIP OF PIERSON TOWNSHIP OF REYNOLDS TOWNSHIP OF WINFIELD
MONTMORENCY	50	All
MUSKEGON	40	All except:
	50	TOWNSHIP OF HOLTON TOWNSHIP OF BLUE LAKE
	60	CITY OF MONTAGUE CITY OF MUSKEGON CITY OF MUSKEGON HEIGHTS CITY OF NORTH MUSKEGON CITY OF NORTON SHORES CITY OF ROOSEVELT PARK CITY OF WHITEHALL TOWNSHIP OF DALTON SHOWNSHIP OF FRUITLAND TOWNSHIP OF FRUITPORT TOWNSHIP OF LAKETON TOWNSHIP OF MONTAGUE TOWNSHIP OF MUSKEGON TOWNSHIP OF SULLIVAN TOWNSHIP OF WHITEHALL TOWNSHIP OF WHITE RIVER VILLAGE OF FRUITPORT VILLAGE OF LAKEWOOD CLUB

NEWAYGO	40	All except:
	50	VILLAGE OF HESPERIA TOWNSHIP OF BARTON TOWNSHIP OF BEAVER TOWNSHIP OF DENVER TOWNSHIP OF HOME TOWNSHIP OF LILLEY TOWNSHIP OF MERRILL TOWNSHIP OF TROY
OAKLAND	25	All
OCEANA	60	All except:
	50	VILLAGE OF HESPERIA VILLAGE OF WALKERVILLE TOWNSHIP OF COLFAX TOWNSHIP OF CRYSTAL TOWNSHIP OF ELBRIDGE TOWNSHIP OF FERRY TOWNSHIP OF GREENWOOD TOWNSHIP OF LEAVITT TOWNSHIP OF NEFIELD TOWNSHIP OF OTTO
OGEMAW	40	All except:
	50	CITY OF ROSE CITY TOWNSHIP OF CUMMINGS TOWNSHIP OF FOSTER TOWNSHIP OF GOODAR TOWNSHIP OF HILL TOWNSHIP OF KLACKING TOWNSHIP OF OGENMAW TOWNSHIP OF ROSE
ONTONAGON	70	All except:
	60	TOWNSHIP OF HAIGHT TOWNSHIP OF INTERIOR TOWNSHIP OF McMILLAN
OSCEOLA	50	All except:
	40	CITY OF EVART VILLAGE OF HERSEY TOWNSHIP OF EVART TOWNSHIP OF HERSEY TOWNSHIP OF ORIENT TOWNSHIP OF OSCEOLA TOWNSHIP OF SYLVAN
OSCODA	50	All
OTSEGO	50	All except:

	60	VILLAGE OF ELMIRA VILLAGE OF VANDERBILT TOWNSHIP OF CORWITH TOWNSHIP OF ELMIRA TOWNSHIP OF HAYES TOWNSHIP OF LIVINGSTON
OTTAWA	50	All except:
	35	TOWNSHIP OF GEORGETOWN TOWNSHIP OF JAMESTOWN TOWNSHIP OF TALLMADGE TOWNSHIP OF ZEELAND
	40	CITY OF COOPERSVILLE TOWNSHIP OF ALLENDALE TOWNSHIP OF BLENDON TOWNSHIP OF CHESTER TOWNSHIP OF POLTON TOWNSHIP OF WRIGHT
PRESQUE ISLE	50	All except:
	60	TOWNSHIP OF BEARINGER
ROSCOMMON	50	All except:
	40	TOWNSHIP OF NESTER
SAGINAW	35	All except:
	30	CITY OF FRANKENMUTH VILLAGE OF BIRCH RUN VILLAGE OF CHESANING VILLAGE OF OAKLEY TOWNSHIP OF ALBEE TOWNSHIP OF BIRCH RUN TOWNSHIP OF BRADY TOWNSHIP OF BRIDGEPORT TOWNSHIP OF CHAPIN TOWNSHIP OF CHESANING TOWNSHIP OF FRANKENMUTH TOWNSHIP OF MAPLE GROVE TOWNSHIP OF ST. CHARLES TOWNSHIP OF TAYMOUTH
SANILAC	30	All except:
	25	VILLAGE OF MELVIN TOWNSHIP OF FREMONT TOWNSHIP OF WORTH
	35	VILLAGE OF MINDEN CITY TOWNSHIP OF AUSTIN TOWNSHIP OF GREENLEAF TOWNSHIP OF MINDEN

SCHOOLCRAFT	70	All
SHIAWASSEE	30	All except:
	25	VILLAGE OF BYRON TOWNSHIP OF BURNS
ST. CLAIR	25	All
ST. JOSEPH	30	All except:
	25	CITY OF STURGIS VILLAGE OF BURR OAK VILLAGE OF COLON VILLAGE OF WHITE PIGEON TOWNSHIP OF BURR OAK TOWNSHIP OF COLON TOWNSHIP OF FAWN RIVER TOWNSHIP OF SHERMAN TOWNSHIP OF STURGIS TOWNSHIP OF WHITE PIGEON
TUSCOLA	30	All except:
	35	VILLAGE OF CARO VILLAGE OF CASS CITY VILLAGE OF FAIRGROVE VILLAGE OF GAGETOWN VILLAGE OF REESE VILLAGE OF UNIONVILLE TOWNSHIP OF AKRON TOWNSHIP OF ALMER TOWNSHIP OF COLUMBIA TOWNSHIP OF ELKLAND TOWNSHIP OF ELMWOOD TOWNSHIP OF FAIRGROVE TOWNSHIP OF GILFORD TOWNSHIP OF WISNER
VAN BUREN	50	All except:
	30	TOWNSHIPE OF PORTER
	35	CITY OF GOBLES VILLAGE OF DECATUR VILLAGE OF LAWTON VILLAGE OF MATTAWAN VILLAGE OF PAW PAW TOWNSHIP OF ALMENA TOWNSHIP OF ANTWERP TOWNSHIP OF BLOOMINGDALE TOWNSHIP OF DECATUR TOWNSHIP OF PAW PAW TOWNSHIP OF PINE GROVE TOWNSHIP OF WAVERLY

WASHTENAW	25	All except:
	20	CITY OF ANN ARBOR CITY OF SALINE CITY OF YPSILANTI VILLAGE OF MANCHESTER TOWNSHIP OF AUGUSTA TOWNSHIP OF BRIDGEWATER TOWNSHIP OF LODI TOWNSHIP OF MANCHESTER TOWNSHIP OF PITTSFIELD TOWNSHIP OF SLINE TOWNSHIP OF SUPERIOR TOWNSHIP OF YORK TOWNSHIP OF YPSILANTI
WAYNE	20	All except:
	25	CITY OF NORTHVILLE
WEXFORD	60	All except:
	50	TOWNSHIP OF CLAM LAKE

R 408.30449 Frost protection.

Rule 449. Section 1809.5 of the code is amended to read as follows:

1809.5. Frost protection. Except where otherwise protected from frost, foundation walls, piers, and other permanent supports of buildings and structures shall be protected from frost by at least 1 of the following methods:

- (1) Extending not less than 42 inches (1 067 mm) below finish grade.
- (2) Constructing in accordance with ASCE-32 listed in chapter 35.
- (3) Erecting on solid rock.

Exceptions:

1. Free-standing buildings meeting all of the following conditions shall not be required to be protected:

- a. Classified in risk category I in accordance with section 1604.5 of the code.
- b. Area of 600 square feet (55.74 m²) or less for light-frame construction or 400 square feet (37 m²) or less for other than light-frame construction.
- c. Eave height of 10 feet (3 048 mm) or less.

2. Upon evidence of the existence of any of the following conditions, the building official may modify the footing depth accordingly:

- a. Freezing temperatures.
- b. Soil type.
- c. Groundwater conditions.
- d. Snow depth experience.
- e. Exposure to the elements.
- f. Other specific conditions identified by the building official that may affect the foundation system.

Footings shall not bear on frozen soil unless such frozen condition is of a permanent character.

R 408.30451c. Flood loads.

Rule 451c. Section 1612.3.1 of the code is amended and 1612.4.1 is added to the code to read as follows:

1612.3.1. Alternate flood hazard provisions. Absent the adoption of a flood hazard map and supporting data, flood hazard areas as determined by the state under its administration of the Part 31, floodplain regulatory authority of the natural resources and environmental protection act, 1994 PA 451, MCL 324.101 to 324.90106, shall become the basis for regulation of floodplain development within the community and section 1612 shall apply to buildings and structures within those areas.

1612.4.1. Minimum requirements for buildings and structures. All of the following are in addition to the requirements of ASCE 24:

(1) Buildings and structures in flood hazard areas subject to high velocity wave action (zone V) shall be in compliance with the requirements of ASCE 24 for such flood hazard areas.

(2) The lowest floors of structure category II buildings and structures shall be at or above the elevation specified in ASCE 24 or 1 foot (305 mm) above the design flood elevation, whichever is higher.

(3) The lowest floors of structure category III and IV buildings and structures in flood hazard areas not subject to high velocity wave action (zone A) shall be at or above the elevation specified in ASCE 24 or 1 foot (305 mm) above the 500-year flood elevation, whichever is higher. For the purpose of this requirement, the 500-year flood elevation is the elevation of flooding having a 0.2% chance of being equaled or exceeded in any given year.

(4) Dry floodproofing for structure category II buildings and structures shall extend to or above the elevation specified in ASCE 24 or 1 foot (305 mm) above the design flood elevation, whichever is higher.

(5) Dry floodproofing for structure category III and IV buildings and structures shall extend to or above the elevation specified in ASCE 24 or 1 foot (305 mm) above the 500- year flood elevation, whichever is higher. For the purpose of this requirement, the 500-year flood elevation is the elevation of flooding having a 0.2% chance of being equaled or exceeded in any given year.

(6) The interior floor or finished ground level of under-floor spaces and crawlspaces shall comply with section 1805.1.2.1 of this code.

R 408.30453 Plumbing systems.

Rule 453. Section 2901.1 of the code is amended to read as follows:

2901.1. Scope. The provisions of this chapter and the Michigan plumbing code, R 408.30701 to R 408.30796, shall govern the erection, installation, alteration, repairs, relocation, replacement, addition to, use or maintenance of, plumbing equipment and systems. Plumbing systems and equipment shall be constructed, installed, and maintained in accordance with the Michigan plumbing code, R 408.30701 to R 408.30796.

R 408.30457 Mechanical systems.

Rule 457. Section 2801.1 of the code is amended to read as follows:

2801.1. Scope. Mechanical appliances, equipment, and systems shall be constructed, installed, and maintained in accordance with the Michigan mechanical code, R 408.30901 to R 408.30998,

and the international fuel gas code listed in chapter 35. Masonry chimneys, fireplaces, and barbeques shall comply with the Michigan mechanical code, R 408.30901 to R 408.30998, and chapter 21 of the code.

R 408.30458 Elevators and conveying systems.

Rule 458. Sections 3001.1, ~~3001.2, 3001.4,~~**3001.5**, 3002.5, ~~3002.6,~~ 3003.1, and 3003.2, of the code are amended and sections 3001.2.1, 3001.2.2, 3003.1.5 and 3004.5 are added to the code to read as follows:

3001.1. Scope. The design, construction, installation, alteration, and repair of elevators and conveying systems and their equipment shall conform with the requirements of the Michigan elevator laws and rules, MCL 408.801 to 408.824, MCL 338.2151 to 338.2160, and R 408.7001 to R 408.8695 and this chapter. Installation or construction in flood hazard areas established in section 1612.3 shall comply with ASCE 24 listed in chapter 35.

~~3001.2. Other devices. Other devices shall conform to the requirements of sections 3001.2.1 and 3001.2.2 of the code.~~

~~3001.2.1. Conveyors. Conveyors and related equipment shall conform to the requirements of ASME B20.1 listed in chapter 35.~~

~~3001.2.2. Automotive lifts. Automotive lifts shall conform to the requirements of ALI ALCTV listed in chapter 35.~~

~~3001.4.~~**3001.5.** Change in use. A change in use of an elevator from freight to passenger, passenger to freight, or from 1 freight class to another freight class shall comply with the requirements of the Michigan elevator code, R 408.7001 to R 408.8695.

3002.5. Emergency doors. Where an elevator is installed in a single blind hoistway or on the outside of a building, there shall be installed in the blind portion of the hoistway or blank face of the building, an emergency door in accordance with the requirements of the Michigan elevator code, R 408.7001 to R 408.8695.

~~3002.6. Prohibited doors. Doors, other than hoistway doors and the elevator car door, shall be prohibited at the point of access to an elevator car.~~

3003.1. Standby power. In buildings and structures where standby power is required or furnished to operate an elevator, the operation shall be in accordance with sections 3003.1.1 to 3003.1.5 of the code.

3003.1.5. Lighting. Where standby power is connected to elevators, the machine room, car top, pit, and landing lighting shall be connected to the standby power source.

3003.2 Fire-fighters' emergency operation. Elevators shall be provided with phase I emergency recall operation and phase II emergency in-car operation in accordance with the requirements of the Michigan elevator code, R 408.7001 to R 408.8695.

3004.5. Construction at bottom of hoistway. Pits extending to the ground shall have noncombustible floors and be designed as to prevent entry of ground water into the pit. The pit floor of any hoistway not extending to the ground shall be of fire-resistive construction having a fire-resistance rating at least equal to that required for the hoistway enclosure.

R 408. 30459 Elevators.

Rule 459. Sections 1009.4 and ~~1607.9,~~**1607.10.1**, of the code are amended to read as follows:

1009.4. Elevators. To be considered part of an accessible means of egress, an elevator shall be in compliance with the emergency operation and signaling device requirements of the Michigan elevator code, R 408.7001 to R 408.8695.

~~1607.9.1.~~**1607.10.1.** Elevators. Elevator loads shall be increased by 100% for impact and the structural supports shall be designed within the limits of deflection prescribed by the Michigan elevator code, R 408.7001 to R 408.8695.

R 408.30476 Criteria.

Rule 476. Section 1301.1.1 of the code is amended to read as follows:

1301.1.1. General. Buildings shall be designed and constructed in accordance with the Michigan energy code, part 10a , R 408.31087 to R 408.31099.

R 408.30495 Rodent proofing.

F101.1 of the code is amended and F101.1.1 is added to the code to read as follows:

F101.1. General. Buildings or structures and the walls enclosing habitable or occupiable rooms and spaces in which people live, sleep, or work, or in which feed, food, or foodstuff is stored, prepared, processed, served, or sold shall be constructed in accordance with this section. Other buildings are subject to these requirements as provided in section F101.1.1 of the code.

F101.1.1. Additional buildings. In a community that has a vermin infestation program for the eradication of vermin enacted by local ordinance, all buildings identified within such an ordinance shall be constructed in accordance with this section.

R 408.30497 Signs.

Appendix H101.1.1 is added to the code to read as follows:

H101.1.1. Local ordinances. A governmental subdivision that has sign regulations governing the placement, location, size, height, or setback from public right of ways shall govern such items.

R 408.30499 Adoption of standards by reference; referenced codes.

Rule 499. Chapter 35 of the code is amended to add the following referenced codes, which are available from the Michigan Department of Licensing and Regulatory Affairs, Bureau of Construction Codes, ~~2501 Woodlake Circle, Okemos, Michigan 48864~~ 611 W. Ottawa ? (Change Address?) :

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| (a) Michigan Electrical Code | R 408.30801 to R 408.30880 of the Michigan Administrative Code. |
| (b) Michigan Mechanical Code | R 408.30901 to R 408.30998a of the Michigan Administrative Code. |
| (c) Michigan Plumbing Code | R 408.30701 to R 408.30796of the Michigan Administrative Code. |
| (d) Michigan Uniform Energy Code | R 408.31061 to R 408.31099of the Michigan Administrative Code. |
| (e) Michigan Elevator Code
Administrative Code. | R 408.7001 to R 408.8695of the Michigan |
| (f) Michigan Boiler Code | R 408.4001 to R 408.5507 of the Michigan Administrative Code. |