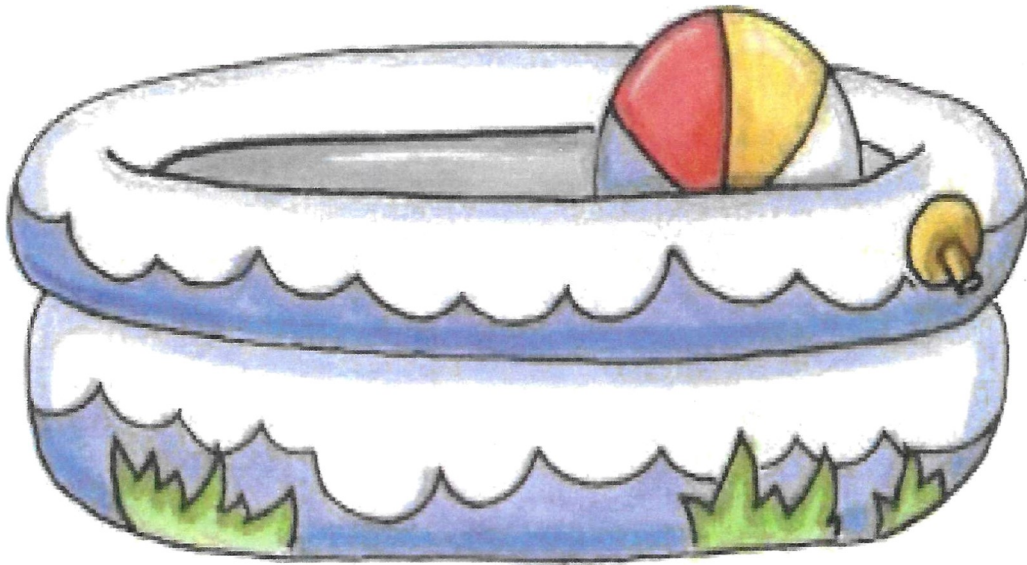


Swimming Pool Building Code



City of New Haven

Information in this booklet is a guideline and subject to change without notice
Informational booklet last updated 6-2020.

**Building
Department**

101 Front Street
New Haven, Missouri 63068
(573) 237-2349

PRIVATE SWIMMING POOLS
Building Permit Requirements

International Residential Code Section R326 – Swimming pools, spas & hot tubs

R326.1 General: The design and construction of pools and spas shall comply with the International Swimming Pool and Spa Code.

This guideline is intended to provide the homeowner/contractor with the basic information needed to apply for a building permit to construct most private in-ground and on-ground swimming pools. A permit is required for all swimming and bathing pools which equal or exceed 24" in depth.

1. Fill out and sign application for a building permit. Refer to page 4 for additional signatures needed before permit issuance.

1A. Commercial or Residential in-ground:

Submit two (2) separate copies of your plot (site) plan showing existing structures with new in-ground pool and its perpendicular distances to the lot lines and from other structures on the lot, if any.

Provide two (2) complete sets of detailed pool plans and specifications. The plans must be drawn to scale, properly dimensioned and contain the following:

- a. Foundation/Structural Wall Plan.
- b. Cross sections through the pool indicating slope of sidewalls and floor and water depth throughout.
- c. Sections and/or details of the ladders, steps, drains, diving boards, filters, structural supports and reinforcing, skimmers or gutters.
- d. Water supply system, drainage and water disposal system and filtering/recirculating system diagrams.
- e. Filter specification notes.

- 1B. On-ground pools shall comply with all Building and Zoning Codes, the pool shall be installed to manufacturer's specifications.

- 1C. On-ground storable pools (removable and stored for the winter or when not in use) shall comply with Building Code and Zoning regulations.

2. Indicate type, location and height of pool enclosure barrier on your site plan. When fences/gates are provided to meet the pool enclosure barrier requirements submit two (2) separate copies of an elevation drawing (showing both gate and fence) and a sectional drawing (fence) of the fence/gate enclosure with your application request.

All pools 24" in depth (or more) must be protected on all sides by an enclosure barrier to prevent small children from entering the pool area unsupervised, as well as make it more difficult for unauthorized use by others. The barrier, which may be one or any combination of the following, must be at least 48" in height above finished ground level measured on the side of the barrier which faces away from the swimming pool. A 2" maximum clearance from ground level to bottom of the barrier shall be maintained. Openings in barriers shall prohibit

the passage of a 4" diameter sphere, and designed to prevent the barrier from being readily climbed by children.

For fences having horizontal and vertical members where the distance between the tops of the horizontal members is 45" or more, the spacing between the vertical members shall not exceed 4 inches. When the distance between the tops of any horizontal of the fence is less than 45", the horizontal members shall be on the pool side of the fence and the spacing between the vertical members shall not exceed 1 ³/₄". Maximum mesh size for chain link fences shall be 1 ¹/₄" square.

Gates in fences shall open outward away from the pool, be self-closing and self-latching. Where the release mechanism of the self-latching device is located less than 54" from the bottom of the gate: (a) the release mechanism shall be located on the pool side of the gate at least 3" below the top of the gate; and (b) the gate and barrier shall not have an opening greater than ¹/₂" within 18" of the release mechanism.

Where a wall of the house serves as part of the enclosure barrier, either all doors with direct access to the pool shall be equipped with an approved automatically resetting audible alarm, or doors shall be self-closing and self-latching with the release mechanism for the latch installed 54" minimum above the threshold, doors shall open away from pool area or the pool shall be equipped with an approved power safety cover.

Refer to attached drawings for typical information and requirements that need to be shown on your site plan and fence/gate elevation and section drawings.

Some of the more common code requirements related to private swimming pools which are usually not reflected on the plans but will be verified through the pool construction/ installation and inspection process are as follows:

Grades

Surrounding grades shall be such as to prevent surface water from entering the pool. No alteration of the existing storm water drainage pattern of the area is permitted without the prior approval of the Building Department.

Discharge Water

Pool shall be constructed and equipped to allow the pool to be completely emptied of water. All discharged water must be to an approved location so as not to create a nuisance to adjoining property. Connection to the sanitary sewer is not permitted. Backwash water from the filters must be connected to the sanitary sewer.

Electrical

All electrical installations shall comply with Article 680 of the National Electrical Code.

All overhead wires must be a minimum of 10' horizontally away from the edge of the pool or 22' vertically above the water level.

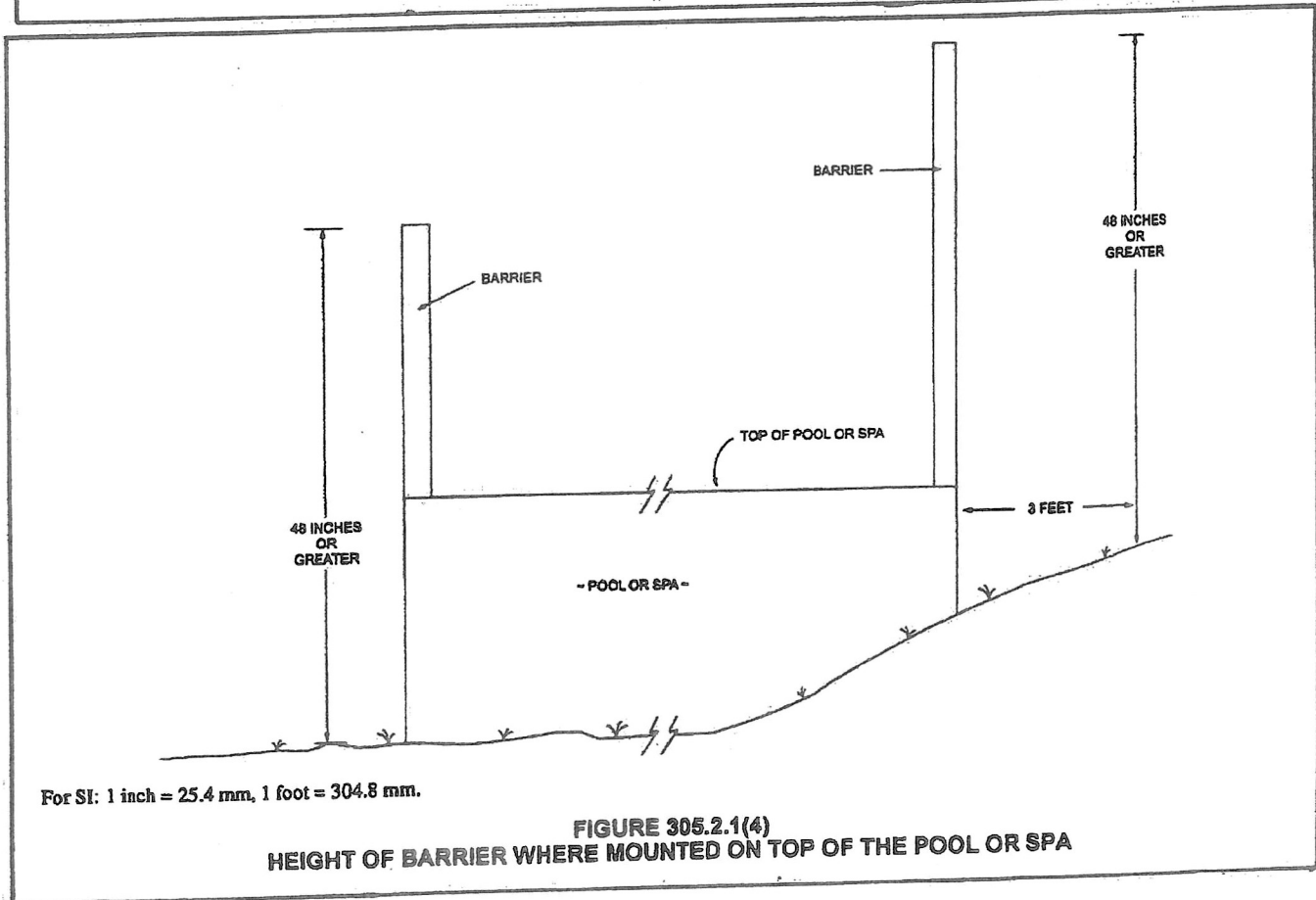
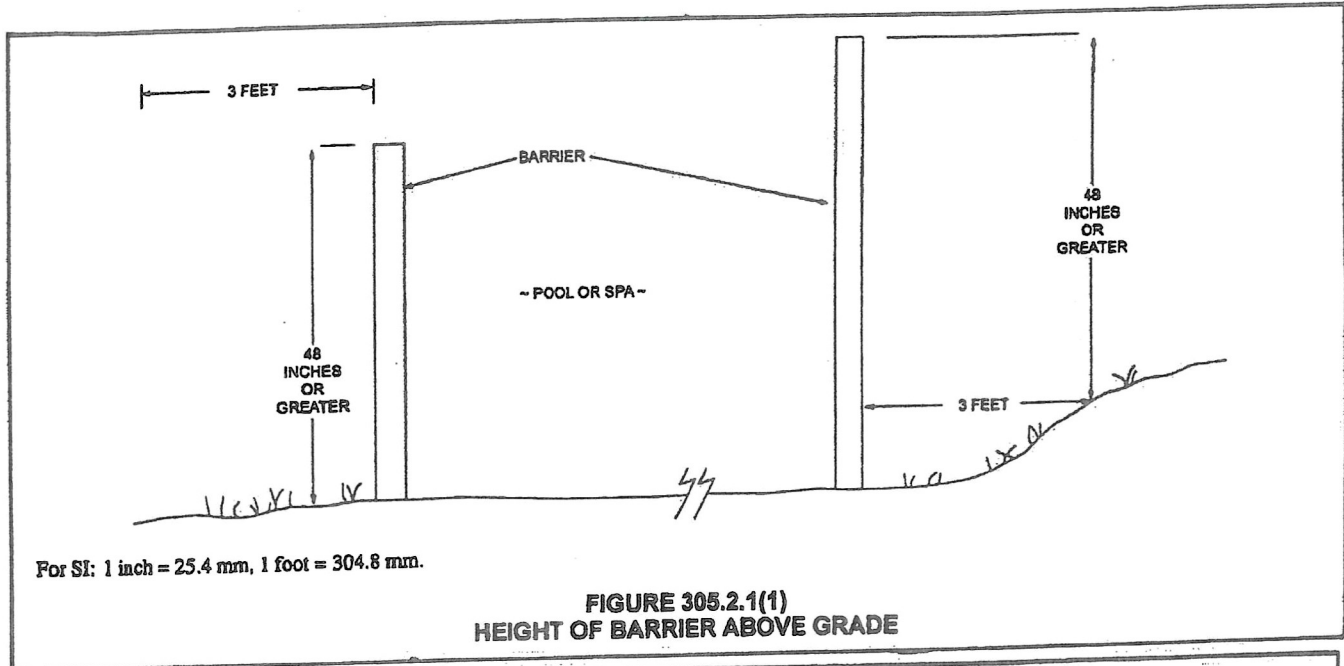
Underground wiring is not permitted under the pool or within 6 feet of the pool wall.

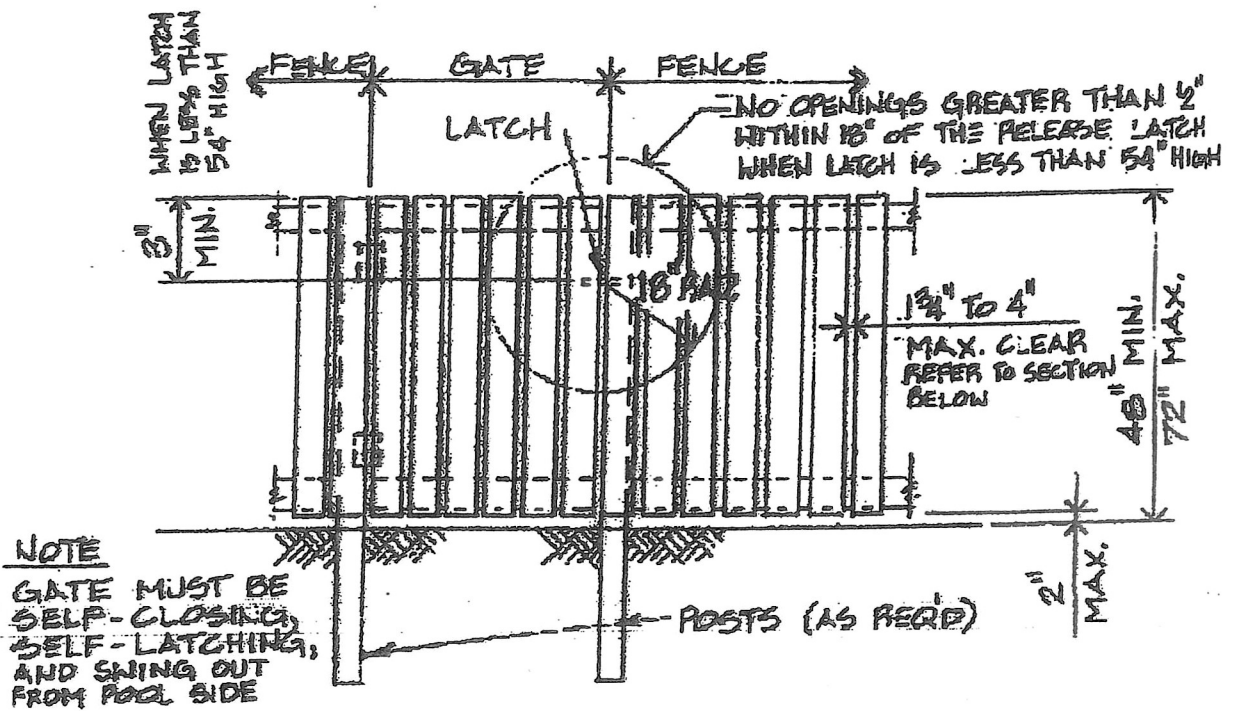
Bonding required: All metallic parts of the pool shell, metallic coping and deck reinforcing steel; along with all electrical equipment associated with the pool water circulating system, including the pump motors, shall be connected to a solid # 8 copper bonding conductor attached to an approved min. 8 foot driven copper ground rod.

Equipment Grounding: The following equipment shall be grounded:

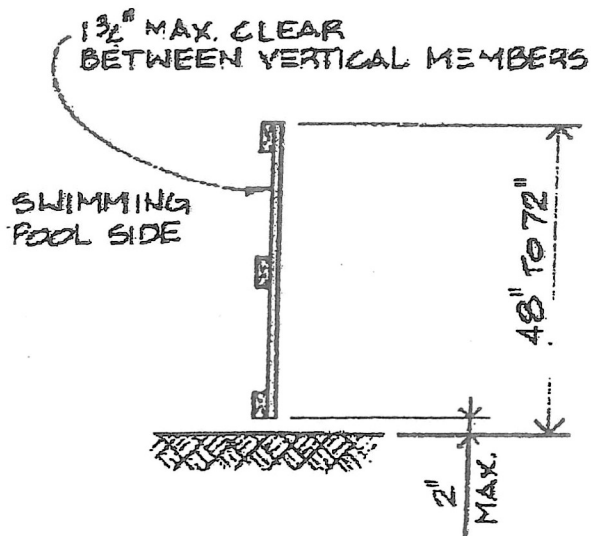
1. Wet niche, dry niche and no niche underwater luminaries other than those low-voltage systems listed for the application without a grounding conductor.
2. All electrical equipment located within 6 feet of the inside wall of the pool
3. All electrical equipment associated with the recirculating system of the pool.
4. Junction boxes.
5. Transformer enclosures.
6. Ground-fault circuit-interrupters.
7. Panelboards that are not part of the service equipment and that supply any electrical equipment associated with the pool.

On-Ground Pool

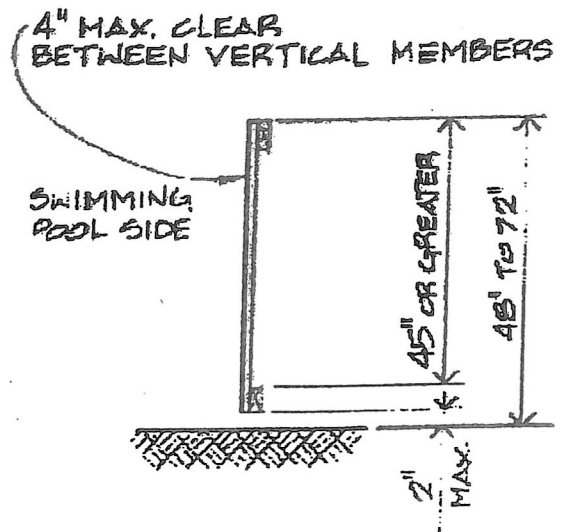




POOL GATE AND BARRIER ELEVATION



HORIZONTAL MEMBERS SPACED LESS THAN 45"



HORIZONTAL MEMBERS SPACED 45" OR GREATER

POOL BARRIER SECTIONS

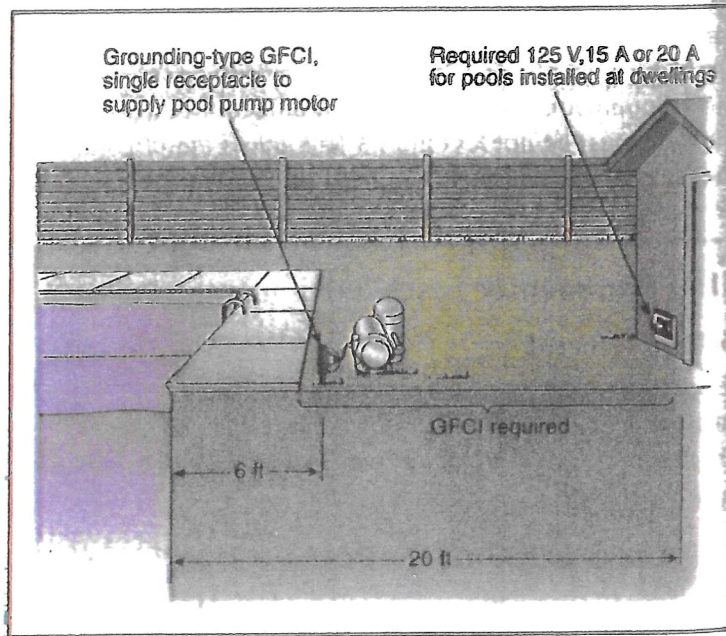


EXHIBIT 680.2 An example of a receptacle installed according to 680.22(A).

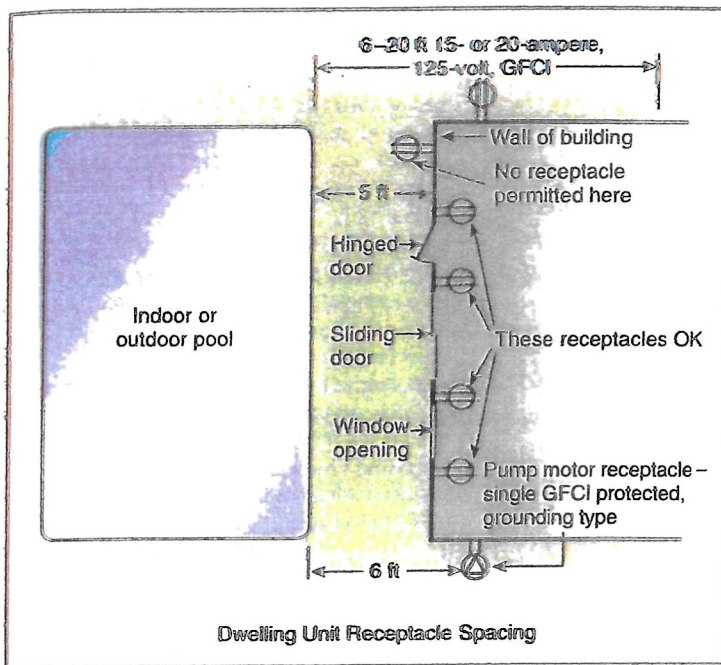


EXHIBIT 680.3 Acceptable receptacle locations within 20 feet of a permanently installed swimming pool.

ARTICLE VII. SUPPLEMENTAL REGULATIONS

SECTION 405.290: ACCESSORY BUILDINGS OR STRUCTURES, ALTERATIONS AND ADDITIONS

All accessory structures shall be permitted with the following provisions and requirements:

1. Any attached building or structure shall be considered as a part of the principal or main building and conform to all regulations applicable to said principal building.
2. In residential zoning districts, accessory buildings or structures shall include, but not limited to, the following: greenhouses, swimming pools, garages (attached-unattached) and similar uses.
3. The minimum distance of an accessory building or structure from any side or rear property line shall be six (6) feet. No accessory building or structure is permitted within the front building setback area.
4. No principal building or structure or accessory building or structure shall be located within or partially within a designated utility easement.