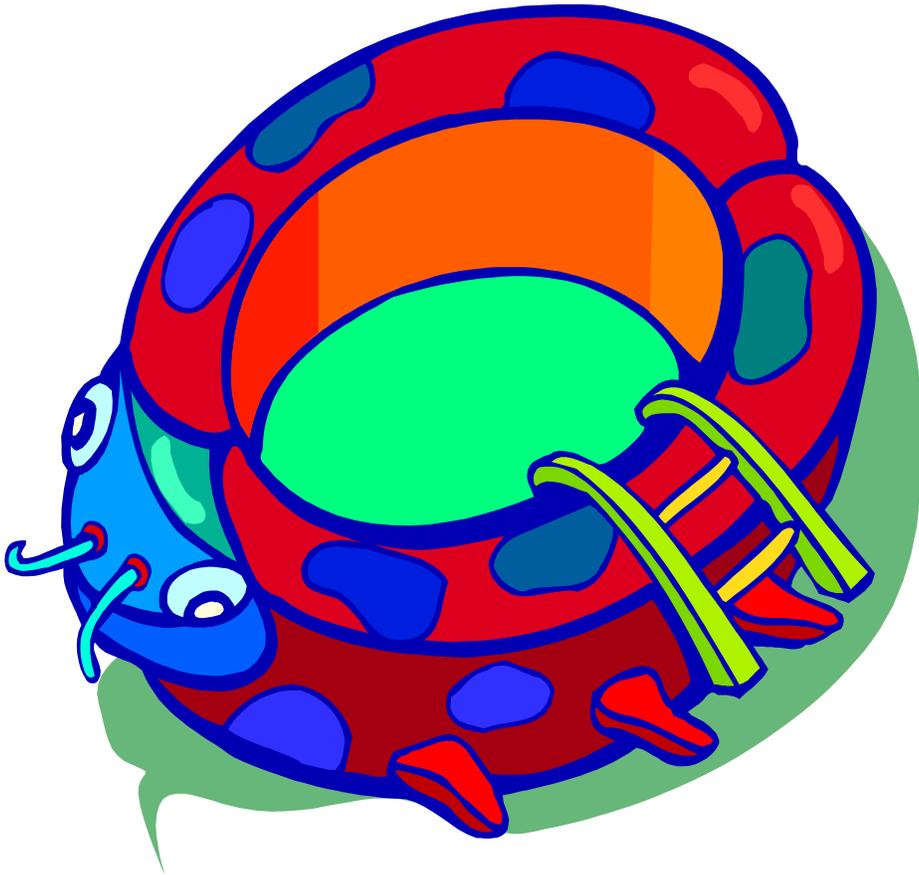


Above-Ground Swimming Pool Building Code



Building Department

City of Sullivan
210 W. Washington
Sullivan, MO 63080
ph: 573-468-8965
fax:573-468-8964
email:
bldg@sullivan.mo.us



PRIVATE ABOVE-GROUND SWIMMING POOLS **Building Permit Requirements**

This guideline is intended to provide the homeowner/contractor with the basic information needed to apply for a building permit to construct most private above-ground swimming pools. A permit is required for all swimming and bathing pools which equal or exceed 36" in depth.

1. Fill out and sign application for a building permit.
2. Submit a copy 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.

The pool 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. When an aboveground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, then the ladder or steps shall be capable of being secured, locked or removed to prevent access, or the ladder or steps shall be surrounded by a barrier as described above.

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 members 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 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 above-ground pools which are usually not reflected on the plans but will be verified through the pool construction/installation and inspection process are as follows:

Discharge 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 system is not permitted.**

Electrical

The installation must comply with the 2003 IRC and the 2002 National Electrical Code. All electrical work must be in accordance with City of Sullivan Ordinances.

All overhead wires must be a minimum of 10' horizontally away from the edge of the pool or 18' vertically above the water level.

Underground wiring is not permitted under the pool or within 5' of the pool wall

No lighting shall be located closer than 5' from the edge of the pool. All lighting within 10' of the edge of the pool must be ground fault circuit interrupter protected.

A ground fault circuit interrupter must be installed in the electrical system for underwater lighting fixtures or cord connected pumps.

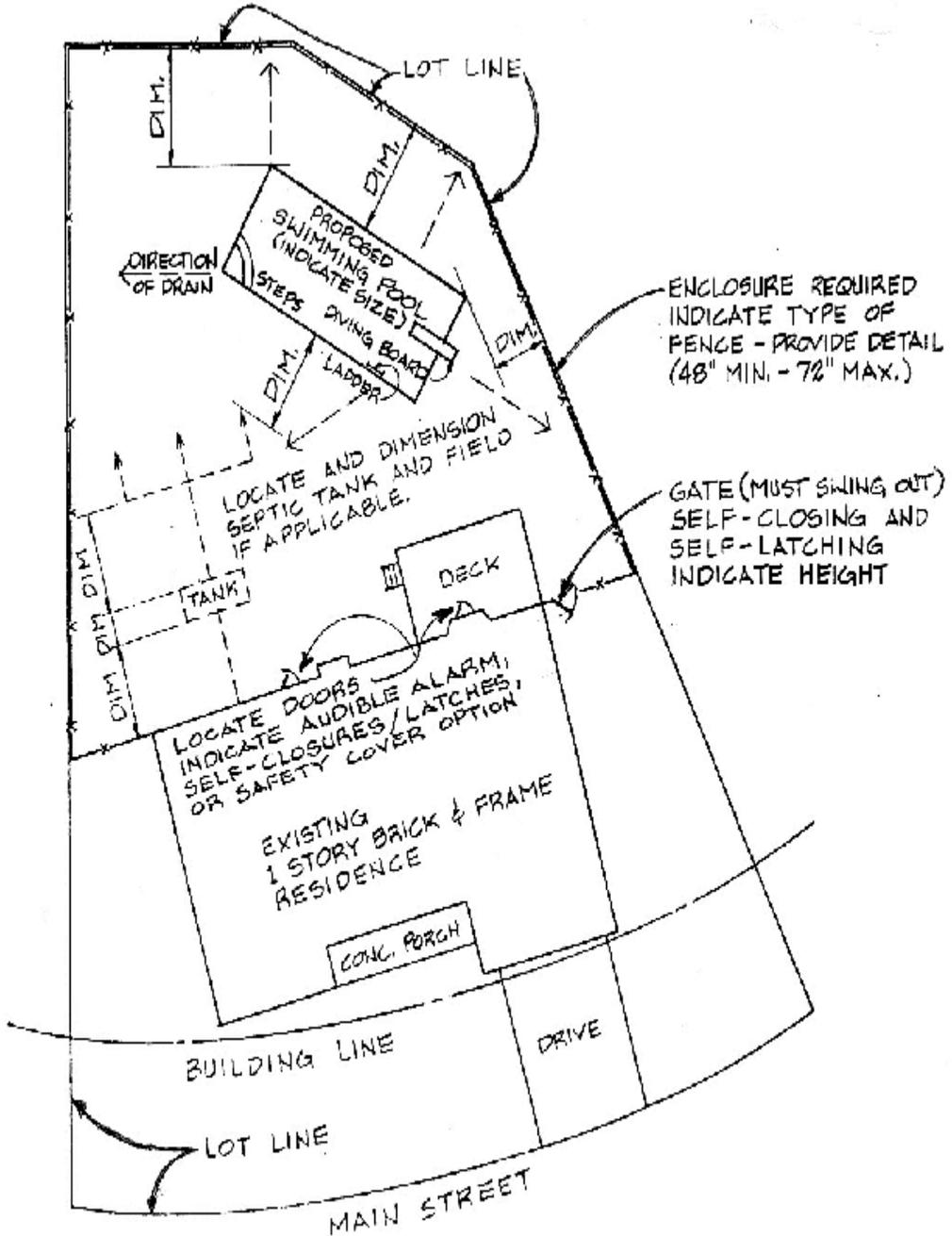
No receptacles within 10' from the edge of the pool, except one single receptacle may be located between 5 and 10' from the edge of the pool for connecting the pump by a flexible cord provided with the pump. No extension cords are permitted. This receptacle must be the single, locking and grounding type and be protected by a G.F.C.I.

At least one receptacle that is ground fault protected must be located a minimum of 10' from the edge of the pool but not more than 20'. All receptacles located within 20' of the edge of the pool must be G.F.C.I. protected.

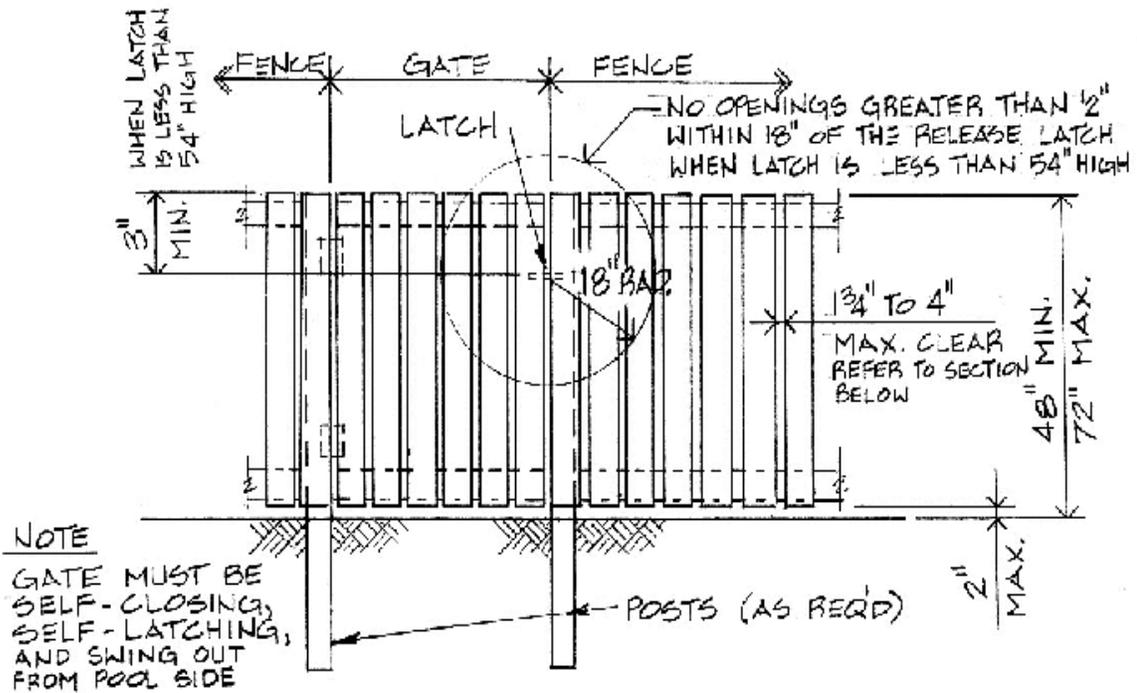
All metallic parts of the pool shall be grounded and bonded properly.

The preceding requirements apply to most private above-ground pool installations, however, the plan reviewer may determine that unusual circumstances dictate the need for additional information on any particular project.

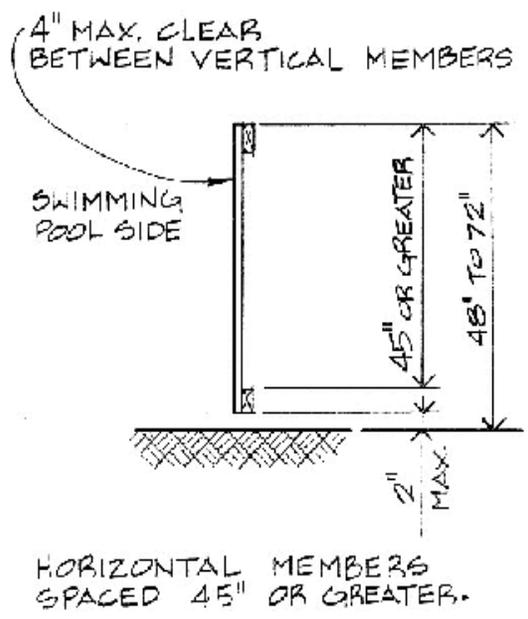
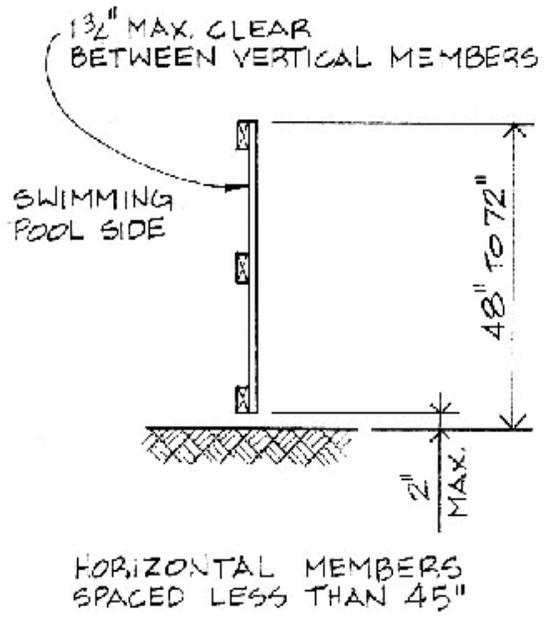
OWNER _____
 ADDRESS _____
 SUBDIVISION _____ LOT NO. _____



TYPICAL PLOT PLAN FOR IN-GROUND POOL
 SCALE: 1" = 20'



POOL GATE AND BARRIER ELEVATION



POOL BARRIER SECTIONS

SWIMMING POOL ENCLOSURE
Building Permit Requirements

AG105 Enclosures for private swimming pools, spas, and hot tubs: Private swimming pools, spas, and hot tubs shall be enclosed in accordance with Sections AG105.2 through AG105.5 or by other approved barriers.

AG105.2 Outdoor private swimming pool: An outdoor private swimming pool, including an in-ground, above-ground or on-ground pool, hot tub or spa shall be provided with a barrier which shall comply with the following.

1. The top of the barrier shall be at least 48 inches (1219 mm) above finished ground level measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between finished grade level and the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above finished ground level, such as an above-ground pool, the barrier shall be at finished ground level, such as the pool structure, or shall be mounted on top of the pool structure. Where the barrier is mounted on the pool structure, the opening between the top surface of the pool frame and the bottom of the barrier shall not allow passage of a 4-inch (102 mm) diameter sphere.
2. Openings in the barrier shall not allow passage of a 4-inch (102 mm) diameter sphere.
3. Solid barriers shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry *joints*.
4. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width. Decorative cutouts shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Decorative cutouts shall not exceed 1 $\frac{3}{4}$ inches (44 mm) in width.
6. Maximum mesh size for chain link fences shall be a 1 $\frac{1}{4}$ -inch (32 mm) square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1 $\frac{3}{4}$ inches (44 mm).
7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall be not more than 1 $\frac{3}{4}$ inches (44 mm).
8. Access gates shall comply with the requirements of items 1 through 7 of **Section 421.10.1**, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outwards away from the pool and shall be self-closing and have a self-latching device. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches (1372 mm) from the bottom of the gate: a) the release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate; and b) the gate and barrier shall not have an opening greater than $\frac{1}{2}$ inch (13 mm) within 18 inches (457 mm) of the release mechanism.
9. Where a wall of a *dwelling unit* serves as part of the barrier and contains a door that provides direct access to the pool, one of the following shall apply:
 - 9.1. All doors with direct access to the pool through that wall shall be equipped with an alarm which produces an audible warning when the door and its screen, if present, are opened. The audible warning shall commence not more than 7 seconds after

the door and door screen, if present, are opened and shall sound continuously for a minimum of 30 seconds. The alarm shall have a minimum sound pressure rating of 85 dBA at 10 feet (3048 mm) and the sound of the alarm shall be distinctive from other household sounds such as smoke alarms, telephones and door bells. The alarm shall automatically reset under all conditions. The alarm shall be equipped with manual means, such as touchpads or switches, to deactivate temporarily the alarm for a single opening from either direction. Such deactivation shall last for not more than 15 seconds. The deactivation touchpads or switches shall be located at least 54 inches (1372 mm) above the threshold of the door.

9.2. All doors with direct access to the pool through that wall shall be equipped with a self-closing and self-latching device with the release mechanism located a minimum of 54 inches (1372 mm) above the floor. Swinging doors shall open away from the pool area.

9.3. The pool shall be equipped with a power safety cover. Where in a closed position, the cover shall be capable of holding a weight of 485 pounds (2157 N), shall not have any openings that allow passage of a 4 ½-inch (114 mm) sphere and shall incorporate a system to drain standing water that collects on the cover. The cover control switch shall be permanently installed in accordance with NFPA 70 listed in Chapter 35, and be key-operated and of a spring-loaded or momentary-contact type. Where the switch is released, the operation of the cover shall stop instantly and be capable of reversing direction immediately. The switch shall be in the line of sight of the complete pool cover.

10. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, then

10.1 The ladder or steps shall be capable of being secured locked or removed to prevent access, or

10.2 The ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, items 1 thru 9. When the ladder or steps or secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter sphere.

AG105.3 Indoor private swimming pool: All walls surrounding an indoor private swimming pool shall comply with Section AG105.2, item 9.

AG105.4 Prohibited locations: Barriers shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb the barriers.

AG105.5 Exemptions: The following shall be exempt from the provisions of this section.

1. A spa or hot tub with an approved safety cover.
2. Fixtures which are drained after each use.