

**SWIMMING POOL PERMITS
ARE
ABOUT
HEALTH AND SAFETY**



Department of Permits & Inspections
80 West Baltimore Street
Hagerstown, Maryland 21740
Phone No: 240-313-2460
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Swimming Pool Booklet
Washington County, Maryland
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REQUIREMENTS FOR SWIMMING POOL BOOKLET

1. Where to apply for pool permit?

The owner or his authorized representative must make application in person at:

Department of Permits & Inspections
80 West Baltimore Street
Hagerstown, Maryland 21740
Phone No: 240-313-2460

2. Information needed to apply for pool permit.

1. Owner's name addresses and phone number.
2. Contractor's or pool installer's name, address and Maryland Home Improvement License Number.
3. Address of the property.
4. Type of pool (in-ground or aboveground).
5. Size and depth of pool.
6. Location of pool shown on plot plan.
 - a. Front, side and rear yard distance to pool.
 - b. Distances from other improvements on property- house, garage, septic system, well, as applicable.
7. Water source- private well or city water.
8. Sewage source- private septic or public sewer.

3. Permit fees.

Building: The building permit fee is \$155.00 for above ground pools or \$205.00 for in-ground pools (Application/Technology Fee included).

Electrical: The electrical fee is \$180.00. (Application/Technology Fee included)

- All fees are non-refundable and subject to change.

If you have any questions, please do not hesitate to contact the Department of Permits & Inspections at 240-313-2460 between 7:30 a.m. and 4:30 p.m., Monday through Friday.

NOTES

Inspections Required

After the permit is approved and construction has begun, the owner or his authorized representative shall be responsible for requesting the required inspections, using the IVR System (Interactive Voice Response System) at 240-313-2488. The proper phases of construction with the Department of Permits & Inspections are as follows.

<u>Phase Of Construction</u>	<u>IVR Inspection Code</u>	<u>Work To Be Inspected</u>
Pool location, stake excavation (All Types of Pools).	200 Setbacks	Front, side, & rear clearances & over head wire clearance.
Sidewalls set for In-ground pools.	300 Footer	Sidewalls set and bottoms are pinned ready for concrete.
After reinforcing Steel is in place and before concrete.	1100 Bonding/Steel	Proper bonding of steel, equipment, and light fixtures.
Under ground electrical conduit.	390 Underground Electrical	Depth of all of the electrical conduit.
Final Inspection. Electrical work Complete.	800 Final Electrical	Bonding & GFI protection is in place & electrical work is complete. Verify barrier &
Building work Complete.	830 Final Building	vacuum breaker are in place.

Note: The Final Electrical and Final Building inspections must be scheduled for the same day.

A Use & Occupancy **CANNOT** be issued until **ALL** required inspections are approved.

4. Processing of permit for approval

The Department of Permits & Inspections coordinates approvals by the following agencies as applicable:

Washington County Health Dept.: To check for proper distance from private septic systems. (Not applicable when served by public sewer).

Allegheny Power Co.: To check for the proper distance from existing electrical power lines.

5. Underground work

Miss utility (1-800-257-7777) must be called to mark the property before ANY digging is to begin.

**NO WORK SHALL BE STARTED
UNTILL THE PERMIT
APPLICATION HAS BEEN
APPROVED AND THE PERMIT
ISSUED!**

A Use & Occupancy **CANNOT** be issued until **ALL** required inspections are approved.

Check List

1. Protective Barrier

AG105.2 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, aboveground 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 grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of 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 grade, such as an aboveground pool, the barrier may be at ground level, such as the pool structure, or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).
2. Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
3. Solid barriers which do not have openings, such as a masonry or stone wall, 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 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.
5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the hori-

5. GFI Protection

Ground Fault interpreter is required on all electrical equipment, motors, pumps, circulators, receptacles, lights, etc., serving the pool or located in close proximity of the pool.

What is a ground fault?

A ground Fault is any such fault current that is not strong enough to operate regular fuses or circuit breakers. Therefore a device called a Ground Fault Interrupter, which cuts- off the circuit when these small ground fault currents are detected is installed.

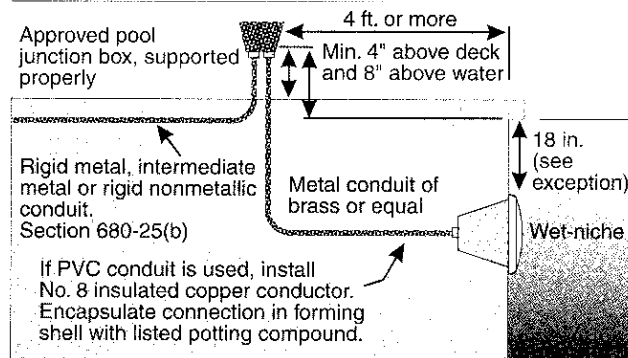
A GROUND FAULT OF ONLY 60/1000 OF AN AMPERE PASSING THROUGH THE CHEST OF A HEALTHY ADULT CAN KILL HIM IN ONE SECOND. (THIS IS THE AMOUNT OF CURRENT USED BY A 7 1/2 WATT CHRISTMAS BULB). CHILDREN AND ADULTS IN POOR HEALTH MAY BE KILLED BY LESS.

OTHER SAFETY MEASURES

In addition to using GFI 's there are other safety measures you can take to protect people using your pool or working near. Here are a few.

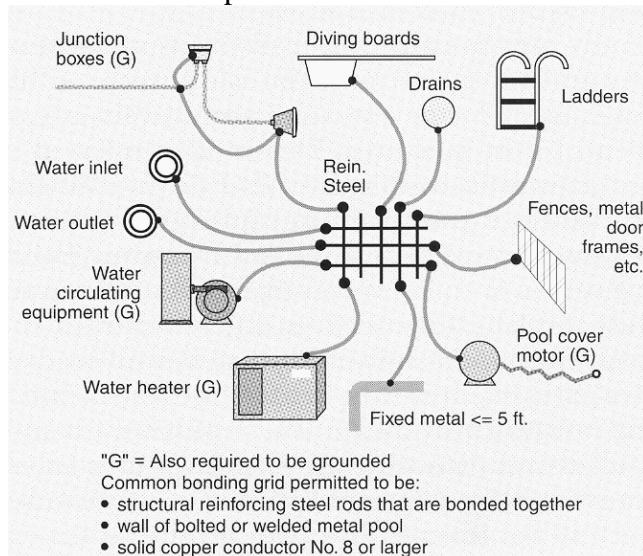
- * Users of the pool shall be sternly warned against handling radios, barbecues, etc., while wet or while standing on concrete, earth, grass or wood (wet or dry).
- * Forbid the use of portable appliances within 10 foot of the pool. (The National Electrical Code Forbids installation of outlets within 10 foot also).
- * Do not run overhead wires across the pool or within 10 foot of it.
- * Don't let extension cords run close to the pool.
- * Always supervise young children in the pool area.
- * Immediately let go of any electrical equipment that causes a tingling sensation when it or metal near it is touched. Disconnect it and have it repaired.
- * If a portable radio connected to an outlet falls into the water, a fault current is capable of electrocuting a bather can occur even if the radio isn't turned on.

In ground pool light Junction boxes shall be supported by at least 1 rigid pipe and wiring shall be as follows.



4. Bonding

- a. A # 8 solid bond must be run from the metal pool frame to the pump motor, accessories and any other metal parts within 5 foot of the pool.



zontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

6. Maximum mesh size for chain link fences shall be a 2.25-inch (57 mm) square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1.75 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 not be more than 1.75 inches (44 mm).
8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 7, and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward 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, the release mechanism and openings shall comply with the following:
 - 8.1. 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
 - 8.2. The gate and barrier shall have no opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

9. Where a wall of a dwelling serves as part of the barrier one of the following conditions shall be met:

- 9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F1346; or
- 9.2. 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 alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means, such as touchpad or switch, to temporarily deactivate the alarm for a single opening. Such deactivation shall last for not more than 15 seconds. The deactivation switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or
- 9.3. Other means of protection, such as self-closing doors with self-latching devices, which are approved by the governing body, shall be acceptable so long as the degree of protection afforded is not less than the protection afforded by Item 9.1 or 9.2 described above.

3. Wiring

- a. All under ground piping shall be 18 inches deep to the top of the pipe. If the line is 120 volts or less & GFI protected then the pipe may be 12 inches deep for a residential pool.
- b. Any line for a sub panel that services a pool shall be conduit the entire length of the run to the main panel with a 4-wire feed.
- c. All trenches shall be left open for inspection.
- d. Caution tape shall be placed in the top 6 inches of the trench.
- e. All under ground piping not related to the pool is to be at least 5 foot from the pool.

NEC[®] 680-10 - Minimum Burial Depth

Wiring Method	Minimum Burial (in.)
Rigid metal conduit	6
Intermediate metal conduit	6
Nonmetallic raceways listed for direct burial without concrete encasement	18
Other approved raceways*	18

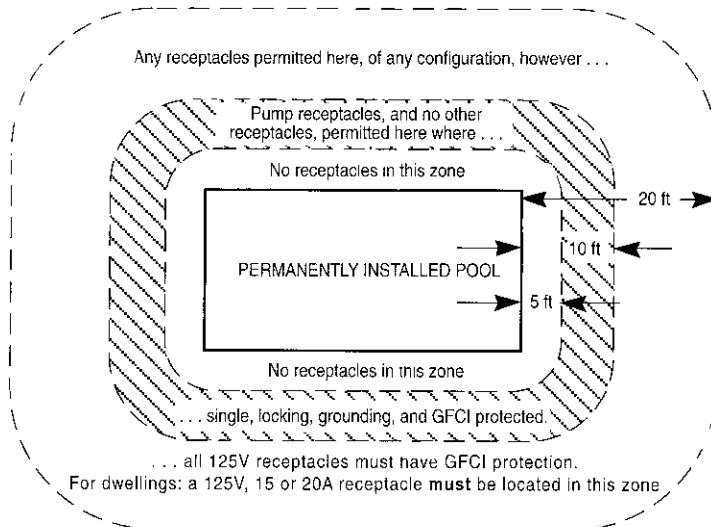
Note: For SI units, 1 in. = 25.4 mm.

* Raceways approved for burial only where concrete-encased shall require a concrete envelope not less than 2 in. (50.8 mm) thick.

ELECTRICAL REQUIREMENTS FOR POOLS

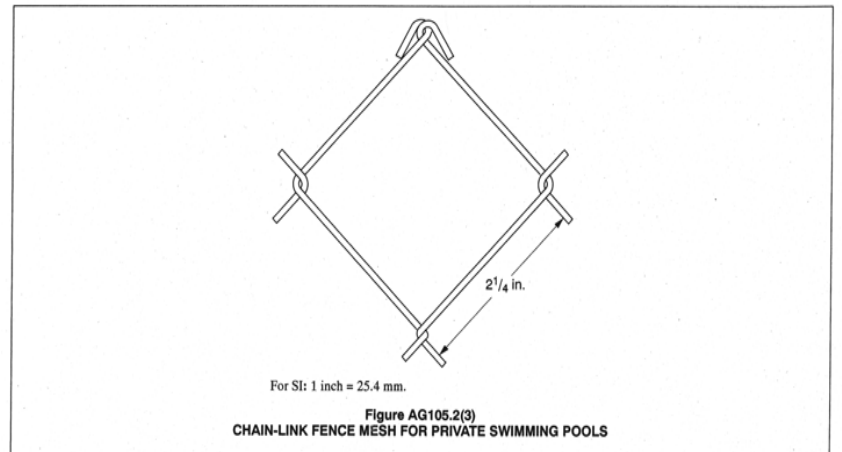
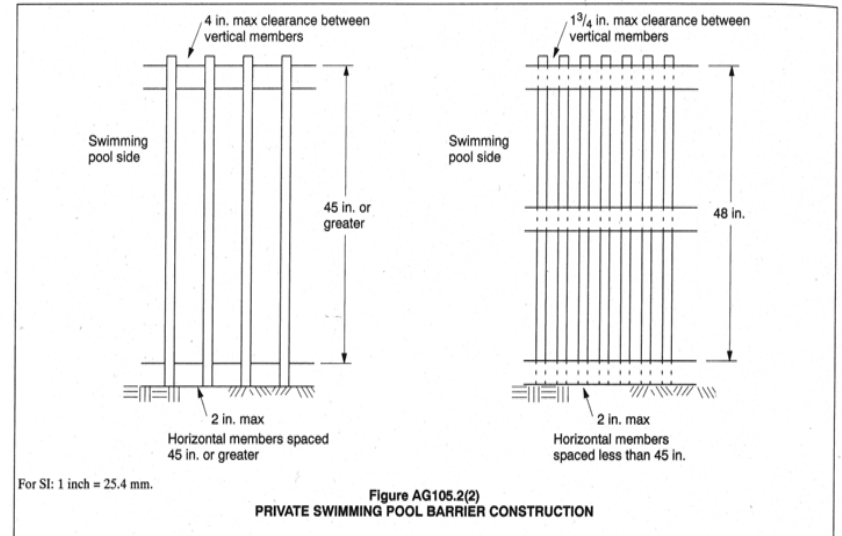
1. Receptacle Placement

- There shall be No receptacle within 5 foot of the pool.
Any receptacle between 5 foot and 10 foot shall be a twist lock single receptacle with GFI protection.
- There shall be at least 1 GFI protected convenience receptacle shall be located no closer than 10 foot but not more than 20 foot from the pool.
- All outside receptacles shall be supported by a 4 x 4 post or Equivalent.
- All outside receptacles shall have “in use” covers.



2. Pool pump and accessories

- Pool pump and accessories shall be at least 3 foot from the pool and GFI protected.
- Cord for the pool pump shall be no longer than 3 foot with a #12 ground.



10. Where 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:

- 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 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

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

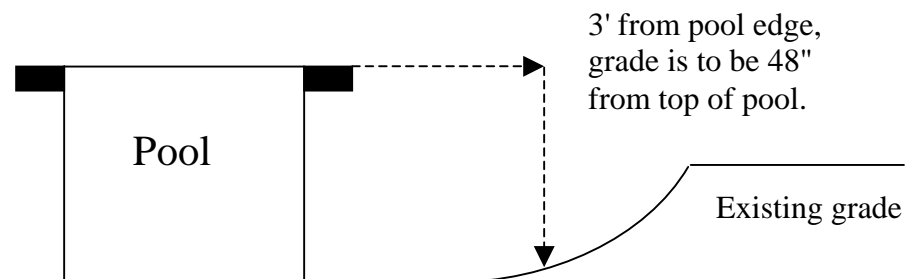
AG105.4 Prohibited locations. Barriers shall be located so as to prohibit permanent structures, equipment or similar objects from being used to climb the barriers.

AG105.5 Barrier exceptions. Spas or hot tubs with a safety cover which complies with ASTM F 1346, as listed in Section AG107, shall be exempt from the provisions of this appendix.

NOTE- A barrier must be installed before **ANY** water is in the pool. Above ground pools need to maintain a 48" barrier, this may require the grade to be cut down to a distance of 3' from the edge of the pool. No pool equipment shall be set within 3' of an above ground pool in order to maintain the barrier requirements.

2. Private Septic system:

A swimming pool must not be placed within the 10,000 square Foot area reserved for the septic system repair. Subject to Health Dept., approval.



Above Ground Pool Grading Requirements.

3. Private Water Supply:

A swimming pool must be placed a safe distance from any well or private water supply on the property. Subject to Health Dept. approval.

4. Pool Water Supply:

Any water supply line that could be used to fill a pool (pump connection, outdoor faucet, etc.) must be equipped with a vacuum breaker to prevent back flow from the pool into the water system and possible contamination of the drinking water.

5. Overhead Electrical Wires:

A pool must not be placed under electrical power lines or service lines. Safe distances from the pool to any electrical wiring and equipment must be maintained as prescribed by the National Electrical Code. Proper clearances must be checked and approved by the Building and electrical inspectors and the power company.

6. Bonding:

All metal parts of the pool structure including the concrete reinforcing metal of the pool shell, coping. Decks, forming shells, metal fittings, ladders, diving boards, light fixtures, electrical equipment, metal piping and conduits must be bonded together. Inspection is required before any item is covered.