



Code Administrators, Inc.

Plan Review ~ Code Inspection ~ Code Consulting ~ Code Education ~ Code Development
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SWIMMING POOL PLAN SUBMITTAL GUIDELINES

The following guidelines are intended to assist municipal residents with the permit acquisition process with regard to swimming pools for single family dwellings.

PERMIT APPLICATION

The first step in the permit process is to completely fill out the appropriate zoning, use and/or building permit applications. It is important to fill out all applicable areas of the permit applications including all necessary signatures.

PLAN SUBMITTAL

Along with the Permit Application, 3 sets of manufacturer specifications, 3 copies of barrier construction, 3 copies of electrical plans and 3 copies of a site plan are required. The site plan is for zoning review by the Building Official. One set of complete plans will remain with the Building Official in order to facilitate in the inspection process, while a second set of plans will be returned to the applicant.

GENERAL REFERENCE

- Check with local zoning official for property line distance requirements.
- Any electrical work performed in conjunction with pool projects must be inspected.
- Please refer to the building permit number when calling for inspections.
- No building or structure that requires a permit may be used or occupied without obtaining a Certificate of Use and Occupancy after approved final inspection by the Code Official.
- Must be built to manufacturer's specifications.
 - ✓ Steel footings backfilled with clean stone or other approved non-expansive material
 - ✓ All metal and metal structures of pool required to be bonded within 5' of pool.



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The following code sections may be helpful when planning to install a swimming pool. The applicable reference is the 2006 International Residential Code:

ELECTRICAL CODE REFERENCE:

BONDING

- Bond all metal within 5 feet from pool with 8AWG copper; bare or green insulated. (E4104.2)

UNDERGROUND CONDUIT

- Only pool associated conduit within 5 feet of inside wall of pool. (E4103.6)
- Non-pool-associated conduit ok if space limited and in rigid metal minimum 6" deep or PVC 18" deep. (E4103.6)

GENERAL

- Overhead wire over water minimum 22' (not more than 10' from walls) (E4103.5)
- Overhead wire over diving board minimum 14' (not more than 10' from walls) (E4103.5)
- Maximum cord on pool equipment is 3'/12AWG ground (E4102.2)

GROUNDING BETWEEN SERVICE AND POOL EQUIPMENT SUBPANEL (PANEL BOARD)

- New feed must be in rigid metal, PVC or IMC conduit with insulated ground except: (E4105.6)
 - ✓ EMT on or in building may be used
 - ✓ Existing feed of Romex, Flex or MC within house acceptable

LIGHTING OUTLETS

- GFCI-protect all lighting outlets within 5' above water level & within 10' from water edge (E4103.4.5)
- Outdoors – none within 5' horizontally from pool unless at least 12' above (E4104.5)
- Existing, secure fixture may be within 5' horizontally; must be more than 5' vertically and GFCI-protected (E4103.4.3)
- Indoors over water – minimum 7'6" GFCI-protected & enclosed (E4103.4.2)



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UNDERWATER WET-NICHE LIGHTING

- All luminaries shall be removable from the water for relamping or normal maintenance from deck or equivalently dry location (E4106.5.1)
- Listed for pool & be GFCI-protected (E4106.5)
- Insulated ground sized to ET-1b minimum 12AWG copper (E4106.5)
- All connections to wet-niche must be potted (E4105.3)
- Minimum 18" below normal water level (E4106.4.2)
- Transformers must be listed & labeled for pool use (E4106.1)
- Low voltage wires shall not be run with other conductors (E4106.4.1)
- Segregate GFCI-protected from non-GFCI wiring (E4106.3)
- PVC to shell requires #8 green insulated CU terminated in shell fixture (E4105.3)

JUNCTION BOXES SUPPLYING WET-NICHE FIXTURES

- Must be labeled for pools (corrosion resistant, ground terminals, hubs, etc) (E4106.9.1)
- Minimum height above water 8", deck 4" (E4106.9.1)
- Minimum distance to water edge 4' unless behind permanent barrier (E4106.9.2)
- No splicing of grounds between light and panel board (E4106.9.1)
- Fixture bonded and secured to shell with locking device and requiring a tool for removal (E4106.10.1)

RECEPTACLES

- Dimensions shall include distance around permanent barriers (E4103.1)
- GFCI outlet located a minimum 10' and maximum 20' from pool walls (E4103.1.2)
- No poolside outlets within 10' from water edge (E4103.1.1)
- All grade accessible outlets GFCI-protected except inside house (E4103.1.1)
- If pump motor more than 5' & less than 10' from pool walls, twist lock receptacle & GFCI protection required (E4103.1.1)
- If pool is less than 10' from dwelling and required distances for pump motor & general-purpose branch circuit receptacles cannot be met, one receptacle outlet shall be permitted no less than 5' from inside wall of pool (E4103.1.3)



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SWIMMING POOL BARRIER REQUIREMENTS

Barriers locates so permanent structures, etc cannot be used to climb barrier

- 48” minimum height of barrier on exterior side of pool
- Maximum 2” clearance from bottom of barrier to grade unless barrier mounted on pool, then 4” maximum
- 4” sphere cannot penetrate openings anywhere in barrier
- Solid barriers cannot have indentations or protrusions that could be climbed
- Maximum 2.25” mesh size allowed for chain-link fences
- Maximum 1.75” opening on lattice

Gates

- Gates must accommodate a lock
- Pedestrian gates must open away from pool, be **self-latching** and **self-closing**
- Release mechanism of latch must be 54” above walking surface or 3” below top of gate on pool side **and** gate and barrier must not have openings greater than ½” within 18” of the release mechanism

Where wall is a part of the barrier, pool must have one of the following conditions:

- Pool must have powered safety cover
- All doors with direct access must have alarms for doors and screens sounding for a minimum of 30 seconds **and** commencing not over 7 seconds after the door and screen are opened. Alarm will sound a minimum of 85 dB 10’ away **and** be distinct from the alarms of smoke detectors, etc **and** must reset automatically. The deactivation device for the alarm system must be a minimum 54” above opening **and** have a maximum deactivation time of 15 seconds.
- All doors with direct access must have self-closing **and** self-latching mechanisms with the release a minimum of 54” above opening floor.
Swinging doors must open away from pool.

Above ground pool barrier requirements

- Pool walls must meet barrier requirements
- Ladder or steps must be able to be secured, locked or removed **or**
- A previously noted approved barrier must surround ladder steps