

# TOWN OF ELLINGTON

Building Department  
57 Main St  
Ellington, CT 06029  
(860)870-3124

## POOL / SPA SUBMITTAL REQUIREMENTS

ALL INFORMATION MUST BE FILLED IN, CHECKED OR MARKED N/A

- \_\_\_\_\_ Application
- \_\_\_\_\_ Zoning Application
- \_\_\_\_\_ Site Plan of pool/spa location showing any overhead lines
- \_\_\_\_\_ Swimming Pool Agreement signed by the owner of the property
- \_\_\_\_\_ One (1) copy of manufacturer specifications and plans. Must be at site.

The following items, views and details shall appear on all plans:

- \_\_\_\_\_ 1. Location of pool must be so that any overhead service entrance cables are 22.5' from the water level in any direction. If installing a diving board or platform a distance of 14.5' must be maintained.
- \_\_\_\_\_ 2. If in-ground pool, consideration for any underground utilities should be taken. No non-pool related underground wire within 6' of pool wall unless in approved conduit.
- \_\_\_\_\_ 3. Pool wiring:
  - \_\_\_\_\_ a. Feed wires and branch circuit wires need to be installed in conduit. NM (romex) allowed indoors only in residential.
  - \_\_\_\_\_ b. Conduit must be of the following type: RMC, IMC, LFNMC, RNC
- \_\_\_\_\_ 4. Bonding:
  - \_\_\_\_\_ a. All metal parts of structure & equipment within 5' must be bonded
  - \_\_\_\_\_ b. Exception: isolated parts < 4" in any dimension and do not penetrate the pool structure < 1"
  - \_\_\_\_\_ c. Bonding perimeter surfaces with a 8 AWG solid copper or larger conductor to include bonding ring around above ground pools 18"-24" from pool, 4"-6" deep, and attached to the pool steel at a minimum of 4 points uniformly spaced around the pool perimeter.
  - \_\_\_\_\_ d. Metal parts of electrical equipment associated with the pool water circulating system, including pump motors.
  - \_\_\_\_\_ d. Pool water with a 9 square inch conductive surface.
  - \_\_\_\_\_ e. Per AG105.6, A temporary enclosure shall be installed prior to the electrical bonding inspection of any in-ground swimming pool unless the permanent barrier specified in AG105.2 is in place prior to the commencement of the installation. The temporary enclosure shall be a minimum of 4 feet in height, shall have no openings that will allow a 4" sphere and shall be equipped with a positive latching device on any openings.

**\_\_\_\_\_ 5. Grounding:**

- \_\_\_\_\_ a. Grounding conductors must be insulated**
- \_\_\_\_\_ b. No splices in conductors must land in terminals**

**\_\_\_\_\_ 6. Receptacles and Equipment Locations:**

- \_\_\_\_\_ a. Receptacles for circulation and sanitation systems of pools shall be permitted to be located between 6' and 10' from pool wall and be a single rec. GFCI protected with ground and be of a locking type. Timer required for pumps.**
- \_\_\_\_\_ b. Permanently installed pools require a receptacle at least 6' but no more than 20' from pool wall.**
- \_\_\_\_\_ c. All exterior receptacles within 20' of pool walls need to be GFCI protected**
- \_\_\_\_\_ d. An accessible disconnecting means for all equipment except lighting shall be located within site of equipment and not less than 5' from pool wall.**

**\_\_\_\_\_ 7. Pool Alarm:**

- \_\_\_\_\_ a. Pursuant to section 29-265a of the Connecticut General Statutes, no building permit shall be issued for the construction or substantial alteration of a swimming pool at a residence occupied by, or being built for, one or more families unless a pool alarm is installed with the swimming pool. Pool alarm means a device that emits a sound of at least 50 decibels when a person or object weighing 15 pounds or more enters the water in a swimming pool.**

**\_\_\_\_\_ 8. Lighting Outlets:**

- \_\_\_\_\_ a. Existing lights less than 5' from pool wall and at least 5' above the water level need to be GFCI protected**
- \_\_\_\_\_ b. New installation above the pool or within 5' of pool wall need installed at least 12' above the water line**
- \_\_\_\_\_ c. Indoors lights with a totally enclosed fixture or identified for use can be 7'6" above the water if GFCI protected**
- \_\_\_\_\_ d. Switches other than ones UL listed need to be at least 5' from pool wall**

**\_\_\_\_\_ 9. Entrapment protection:**

- \_\_\_\_\_ a. All pool and spa suction outlets shall conform to ANSI/ASME A112.19.8M or be a drain grate of at least 12" X 12" or larger or an approved channel drain**

**REQUIRED BARRIERS**

**\_\_\_\_\_ 10. Barriers are designed to provide protection against potential drowning by restricting access to swimming pools, hot tubs and spas:**

- \_\_\_\_\_ a. The barrier must be at least 48" to the top above the finish grade. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches measured on the side of the barrier which faces away from the swimming pool.**
- \_\_\_\_\_ b. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches or more, spacing between vertical members shall not exceed 4 inches. Where there are decorative cutouts within vertical members, spacing within the cutouts shall**

not exceed  $1\frac{3}{4}$  inches in width. 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, 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 in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed  $1\frac{3}{4}$  inches in width.

- \_\_\_\_\_ c. Access gates for pedestrians shall have a self locking device and be of a self closing type
- \_\_\_\_\_ d. The release mechanism for the gate must be at least 54" from the bottom of the gate or be located at least 3" below the pool side of the top of the gate and the gate and barrier shall have no opening larger than  $\frac{1}{2}$  inch within 18 inches of the release mechanism.
- \_\_\_\_\_ e. If a wall of a dwelling serves as part of the barrier all doors that directly access the pool need to be self closing/self latching or equipped with an audible alarm listed and labeled for UL 2017.
- \_\_\_\_\_ f. Where an above ground pool serves as the barrier the ladder or steps shall be surrounded by a barrier which meets the requirements of Section AG105.2, items 1 through 9.
- \_\_\_\_\_ g. Barriers shall be constructed and located away from structures, equipment or similar objects to prevent them from being used to climb on or over the barriers
- \_\_\_\_\_ h. Barrier exceptions – hot tubs or spas with a safety cover complying with ASTM F 1346 shall be exempt from these provisions.

\_\_\_\_\_ 11. Decks:

- \_\_\_\_\_ a. Decks built 30" high above grade require guards
- \_\_\_\_\_ b. Plans for deck need to be submitted for approval at time of permit application
- \_\_\_\_\_ c. Access to decks around pools must meet above barrier requirements
- \_\_\_\_\_ d. Decks cannot cantilever on above ground pool walls without proof from the manufacturer that the pool is capable of supporting the deck

\_\_\_\_\_ 12. Portable or storable pools:

- \_\_\_\_\_ a. Cord connected pumps shall have a double insulated cord and ground that grounds all internal non-accessible metal parts
- \_\_\_\_\_ b. Electrical equipment needs protection by GFCI circuit
- \_\_\_\_\_ c. Lights for storable pools need to be UL listed with no exposed metal parts

**THIS COMPLETED FORM MUST BE TURNED IN WITH PLANS**

