



IN ACCORDANCE WITH CONNECTICUT GENERAL STATUTES PERMITS ARE REQUIRED IF YOU INSTALL A POOL ON YOUR PROPERTY THAT IS CAPABLE OF HOLD 24” OR MORE OF WATER.

Here are the steps in the permitting process:

- 1. Zoning permit**
- 2. Building permit**
- 3. Electrical permit**
- 4. Pool owner’s agreement**
- 5. Required inspections**
- 6. Certificate of approval**

THE FOLLOWING DOCUMENTS ARE REQUIRED WHEN APPLYING FOR A ZONING PERMIT:

Plot plan- a plot plan is a drawing which shows all of the structures and utilities on your property and their distance from each other as well as your property lines. Contact the Zoning Department for a copy of your plot plan.

(See specific zoning regulations on pool placement.)

THE FOLLOWING DOCUMENTS ARE REQUIRED WHEN APPLYING FOR A BUILDING PERMIT:

1. Plot plan showing the location of the pool barrier- a pool barrier is a fence, wall, building or combination thereof which completely surrounds the pool and restricts unauthorized access. Pool barriers are required by state law. Review of the proposed barrier design by the building department ensures that it meets code requirements.

(See attached documents for specific pool barrier requirements)

2. Pool manufacturer’s installation instructions- installation instructions communicate the manufacturer’s requirements to the building department.

(In-ground pools may require more documentation, ask for specifics)

3. Documentation indicating brand and model of pool alarm- installation of a pool alarm is required by state law. Review of the device you propose to install ensures compliance with state law requirements.



THE FOLLOWING DOCUMENTS ARE REQUIRED WHEN APPLYING FOR AN ELECTRICAL PERMIT:

1. Documentation indicating brand and model of pool pump motor – This documentation communicates the manufacturer's requirements to the building department.
2. Plot plan showing location of pool pump motor - Location of the pool pump motor illustrates to the building department that the installation location complies with applicable building, zoning, and health regulations.
3. Plot plan with a line diagram showing the location and depth of all conduits associated with the pool electricity, bonding of pump, water, equipotential grid, and all metal parts within 5' of the pool edge.

POOL OWNER'S AGREEMENT:

The pool owner's agreement is a document which conveys the property owner's responsibilities of having a pool and their acknowledgement to comply with them.

ROUGH INSPECTIONS:

Rough inspections of on-going work ensure that code requirements are being met during construction. A detailed list of required inspections can be found later in this packet.

Final inspections:

A final inspection occurs when the project is complete. It is the last look to make sure pool barriers, alarms, and all other aspects of installation are complete and installed per manufacturer's instructions and code requirements.

Certificate of Approval:

The city issues a certificate of approval after the final inspection has occurred. It is a document that proves legal completion of the project. The pool should not be used until the property owner has possession of this document.

HEALTH DEPARTMENT REQUIREMENTS:

1. Minimum 5' separation distance between a deck and septic system
2. Minimum 10' separation distance between an above-ground pool and septic system
3. Minimum 25' separation distance between in-ground pool, septic system and well
4. Minimum 75' separation distance between pool filter water backwash and well



If you have a well or septic system on your property you must show the size, location, (reserve field for septic), and distance from them to your pool on your plot plan.

ZONING DEPARTMENT REQUIRMENTS:

1. A swimming pool shall not be located in a front yard, or in any required side or rear yard setback. A required yard setback is the minimum distance from your property line in which a structure (pool) can be placed.
2. A pool must be a minimum of 10' from your house.

The above zoning requirements must be adhered to and depicted on your plot plan.

POOL BARRIER REQUIREMENTS:

The following provisions shall control the design of barriers for residential swimming pools, spas and hot tubs. These design controls are intended to provide protection against potential drownings and near-drownings by restricting access to swimming pools, spas and hot tubs.

An outdoor swimming pool, including an in-ground, above-ground or on ground pool, hot tub or spa, shall be surrounded by a barrier which shall comply with the following:

1. The top of the barrier shall be at least 48" 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" 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 above-ground 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".
2. Openings in the barrier shall not allow the passage of a 4" diameter 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" the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1 3/4" in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1" 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" or more, spacing between vertical members shall not exceed 4". Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1" in width.



6. Maximum mesh size for chain link fences shall be a 2 ¼” square, unless the fence has slats fastened at the top or the bottom which reduce the openings to not more than 1 ¾”.

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 ¾”.

8. Access gates shall comply with the requirements of 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” 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” below the top of the gate.

8.2. The gate and barrier shall have no opening larger than ½” within 18” 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.

9.2. Doors with direct access to the pool through that wall shall be equipped with an alarm that produces an audible warning when the door and/or its screen, if present, are opened. The alarm shall be listed and labeled in accordance with UL 2017. The deactivation switches shall be located at least 54” above the threshold of the door.

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 as long as the degree of protection afforded is not less than the protection afforded by item 9.1 or 9.2 described herein.

10. Where an above-ground or on-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, the ladder or steps shall be surrounded by a barrier that meets the requirements of items 1 to 9, inclusive.

Walls surrounding an indoor swimming pool shall comply with Item 9.

The required barrier height shall exist around the entire perimeter of the barrier and for a distance of 3’ horizontally from the outside of the required barrier, free of structures, equipment or similar objects.

Spas or hot tubs with a safety cover which comply with ASTM F1346 shall be exempt from the pool barrier requirement.



TEMPORARY CONSTRUCTION BARRIER:

A temporary construction barrier shall be installed prior to the electrical bonding inspection of any in-ground swimming pool unless the permanent barrier is in place prior to the commencement of the installation. The temporary barrier shall be a minimum of 4' in height, shall have no openings that will allow passage of a 4" sphere and shall be equipped with a positive latching device on any openings.

SUCTION ENTRAPMENT AVOIDANCE REQUIREMENTS:

Suction outlets shall meet the requirements of APSP 7 (Virginia Graeme Baker Act), which are as follows:

- A. Pools may be built without submerged suction outlets or drains.
- B. When submerged outlets are present they must be protected by covers that comply with the most current version of ANSI A112.19.8
- C. The flow rate must not exceed 6 fps or 3 fps when divided amongst dual outlets.
- D. Provide multiple or an un-blockable outlet. Multiple outlets must be spaced 3' apart and must exceed 18" x 23"

ENERGY EFFICIENCY REQUIREMENTS:

Heaters - The electric power to heaters shall be controlled by a readily accessible on-off switch that is an integral part of the heater mounted on the exterior of the heater, or external to and within 3 feet of the heater. Operation of such switch shall not change the setting of the heater thermostat. Such switches shall be in addition to a circuit breaker for the power to the heater. Gas-fired heaters shall not be equipped with continuously burning ignition pilots.

Time switches - Time switches or other control methods that can automatically turn off and on according to a preset schedule shall be installed for heaters and pump motors.

Covers - Outdoor heated pools and outdoor permanent spas shall be provided with a vapor retardant cover or other approved vapor-retardant means.

POOL ALARM REQUIREMENTS:

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. A "pool alarm" means a device that emits a sound of at least 50 decibels when a person or an object weighing 15 pounds or more enters the water in a swimming pool.



ELECTRICAL REQUIREMENTS:

1. Flexible cords: For other than storable pools, flexible cords for pool equipment shall not exceed 3' in length. For storable pools, the cord shall not exceed 15'.
2. Receptacles locations:
 - a. Pump motor receptacles - Receptacles that provide power for pump motors or other loads directly related to the circulation and sanitation system may be located 6'-10' from the pool edge if the receptacle is single, of grounding type and protected by GFCI.
 - b. General purpose receptacles – At least one 125 volt 15 or 20 amp GFCI receptacle shall be located 6' – 20' from the pool edge not more than 6'6" above pool grade level.
 - c. All 15 and 20 amp receptacles within 20' of pool edge shall be GFCI protected.
3. Disconnecting means: One or means to simultaneously disconnect all ungrounded conductors for all utilization equipment, other than lighting, shall be provided at least 5' from pool edge.
4. Lights and ceiling fans: Lighting outlets, light fixtures, and paddle fans shall not be installed over a pool or within 5' horizontally from the pool edge unless it is a minimum of 12' above the maximum water level of the pool.
5. Low voltage lighting: Listed low voltage lighting not requiring grounding shall be installed at least 5' from the pool edge.



6. Existing receptacles and light fixtures: Existing receptacles and light fixtures located within 5' of the pool edge must be protected by GFCI.

7. Conductor clearances:

Overhead service cables – 22.5ft above maximum water level
Underground Service cables – 5' minimum from pool walls

8. Minimum burial depth:

PVC conduit – 18" below grade
Rigid metal – 6" below grade

9. Bonding requirements:

The following items shall be bonded together with 8AWG minimum solid copper conductors.

- A. Conductive pool shells
- B. Perimeter surface
- C. Metallic components
- D. Underwater lighting
- E. Metal fittings
- F. Electrical equipment
- G. All fixed metal parts

Pool water – The pool water shall be in direct contact with an approved corrosion resistant conductive surface not less than 9 sq in of surface area. The conductive surface shall be located where it is not exposed to physical damage or dislodgement during pool usage. It shall be bonded with the above components.

10. Grounding Requirements:

The following equipment shall be grounded:

- A. Through wall lighting assemblies and underwater lighting.
- B. All electrical equipment within 5' of pool edge.
- C. All electrical equipment associated with pool recirculation system.
- D. Junction boxes.
- E. Transformer and power supply enclosures.
- F. Ground Fault Circuit Interrupters.
- G. Panel boards that are not part of service equipment associated with pool.

Lights and related equipment – Other than low voltage lighting not requiring grounding, all through wall assemblies, wet-niche, dry-niche, or no niche luminaires shall be attached to a 12 AWG minimum equipment grounding conductor.

Non-metallic conduit – Where non-metallic conduit is installed between a forming shell and junction box, an 8 AWG copper bonding jumper shall be installed.



Flexible cords – Other than listed low-voltage systems not requiring grounding, wet-niche luminaires that are supplied by a flexible cord shall have all exposed metallic parts grounded by an insulated copper equipment conductor. The conductor shall not be less than 16 AWG.

Motors – Pool associated motors shall be connected to insulated copper equipment grounding conductor sized to meet motor rating, but not smaller than 12 AWG.

Feeders – An equipment grounding conductor be installed with the feeder conductors between the grounding terminal of the pool equipment panelboard and the grounding terminal of the service equipment.

Cord connected equipment – Where fixed or stationary equipment is connected with a flexible cord, the equipment grounding conductors shall be connected to a fixed metal part of the assembly.

11. Storable swimming pools, spas, and hot tubs

Pumps – a cord and plug connected pool filter pump shall be double insulated.

GFCI – Electrical equipment shall be protected by GFCI.

Lights – Lights shall not have exposed metal parts and shall be listed for the purpose as an assembly.

Receptacle locations – Receptacles shall be located not less than 6' from the pool edge.

Clearances to overhead conductors – Clearances shall be the same as required for other pools.

Disconnecting means – Disconnecting means shall be the same as required for other pools.

Grounding – Grounding shall be the same as required for other pools.

REQUIRED INSPECTIONS:

1. **Pool temporary fence** – Inspection of temporary construction fence prior to excavation of in-ground hole.
2. **Pool rebar inspection** – Inspection of rebar for in-ground pools prior to placement of concrete.
3. **Pool bonding and grounding inspection** – Inspection of all associated bonding and grounding.
4. **Pool electrical conduit inspection** – Inspection to verify depth of all underground conduits prior to being backfilled.
5. **Final inspection** - Inspection to verify code compliant installation and testing of permanent pool barrier, gates, door and pool alarms.



POOL OWNERS AGREEMENT *(must be signed by property owner)*

As owner in fee of the property listed on this application I recognize the serious safety issues associated with pool ownership. I agree to fully comply with the following requirements:

1. To comply with all applicable local zoning ordinances, Connecticut State Building Code and General Statute requirements governing pools, including:

- ☐ Meriden Zoning Ordinances
- ☐ Connecticut State Building Code
- ☐ Safety barriers, gates, latches, locks, and alarms
- ☐ National Electric Code requirements
- ☐ Energy code requirements
- ☐ Water motion pool alarm (C.G.S. - 29.265a)

2. To notify the building department at the time of application if I have a septic system or well at the time of application, additional requirements apply.

3. To provide and maintain a temporary barrier during construction.

4. Schedule all required inspections.

5. Schedule a final inspection upon completion of pool.

6. Obtain a certificate of approval before use of pool.

7. Keep pool barrier and alarms in compliance with applicable Connecticut State Building Code requirements. Any repairs or replacement shall be completed through permit.

I have read, understood, and agree to the above listed requirements of pool ownership:

Street Address: _____

Property Owner's Name: _____

Telephone Number: _____

Installed pool is: _____ above ground _____ in-ground

Property Owner's Signature: _____

Date: _____