

SWIMMING POOL/HOT TUB/SPA/POND

Village of Carol Stream

500 N. Gary Avenue, Carol Stream, IL 60188
Tel: 630-871-6230 Fax: 630-665-1064

CHECKLIST

Completed by Permit Applicant and reviewed by Community Development Staff at submittal.
Additional items required will be circled by Community Development Staff.

- _____ Completed **Application For Permit**
- _____ Two (2) sets of signed and sealed **Architectural and Structural Plans** for in-ground pools.
- _____ Two (2) copies of the **Plat of Survey**, drawn to scale, showing all existing structures on the lot, and showing the location of the pool, hot tub, spa or pond with dimensions from property lines and other structures on the lot
- _____ One (1) copy of the pool/hot tub/spa/pond **brochure/information** giving specifications for all devices (filters, pumps, heaters) and description of electrical power source
- _____ One (1) copy of **Electrical Contractor's License**, if applicable (unless the homeowner is doing the work)
- _____ One (1) copy of **Plumbing Contractor's License**, if applicable (unless the homeowner is doing the work)

Completed by Community Development Staff upon review of submittal:

- _____ All documentation required for the permit application has been submitted.
- _____ Items circled have not been properly submitted and we are returning your submittal for completion of these items.

Building permit submittal checked by: _____

For questions regarding building permit requirements for a Swimming Pool/Hot Tub/Spa/Pond, please contact the Village of Carol Stream Community Development Department at (630)871-6230.

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Swimming Pool, Hot Tub, Spa and Landscape/ Decorative Pond Permit Requirements

1. *Permit Application:* All pools or ponds twenty-four inches (24") or more in depth require a completed permit application along with the brochure and specifications from the manufacturer or a drawing showing the type of device, size, electrical devices (filters, heaters, etc.). Two copies of the Plat of Survey must also be submitted showing the pool's or the pond's exact location on the lot. Any electrical and/or plumbing work not done by the homeowner must be done by a licensed electrician and/or plumber and a copy of their license(s) must be submitted with the application.

* Note: In-ground installations require detailed plans showing concrete work, electrical diagram, etc. Drawings must be signed and sealed by an Architect or Structural Engineer.

2. *Placement on Lot:* See attached drawing.
3. *Lot Coverage:* The maximum ground coverage of all structures on the lot must not exceed thirty percent (30%) of the lot area, except for decks and pools, which may increase the lot coverage to a maximum of thirty-five percent (35%).

4. *Design Requirements:*

A. Enclosures. Private swimming pools, hot tubs, spas and landscape/decorative ponds with a containment wall height of 24 inches [610 mm] or greater must be completely surrounded by a fence or barrier at least 48 inches [1219 mm] in height above the finished ground level measured on the side of the barrier away from the pool. Gates and doors in such barriers must be self-closing and self-latching. Where the self-latching device is less than 54 inches [1372 mm] above the bottom of the gate, the release mechanism must be located on the pool side of the gate. Self-closing and self-latching gates must be maintained such that the gate will positively close and latch when released from an open position of 6 inches [152 mm] from the gatepost. No existing pool enclosure can be removed, replaced or changed in a manner that reduces its effectiveness as a safety barrier. A separate fence permit may be required where applicable.

Swimming pools must be maintained in a clean and sanitary condition, and in good repair.

- A Permit is Required Before Any Work Begins -

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- B. Where the wall of a dwelling serves as part of the barrier, one of the following conditions must be met.
- 1) The pool must be equipped with a powered safety cover, or
 - 2) All doors with direct access to the pool through that wall must be equipped with an alarm which produces an audible warning when a door and its screen, if present, are opened. The alarm must 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.
- C. *Electric Service Clearances:* Pools or ponds must not be placed under existing overhead wiring, nor must existing or new wiring be installed in the area extending ten feet (10') horizontally from the pool walls. Underground wiring is not permitted under the pool or under the area extending five feet (5') from the pool walls.
- D. *Minimum Electrical Requirements:*
- 1) A G.F.C.I.-protected breaker or a G.F.C.I.-protected, weather-proof receptacle must be installed. The Electrical Code permits more than one method of underground wiring:
 - a) Rigid Metal Conduit, buried at least twelve inches (12") below top of ground, or
 - b) Intermediate Metal Conduit (a lighter wall pipe with threaded couplings), to be buried at least twelve inches (12") below top of ground, or
 - c) UF (direct burial cable), protected with rigid conduit both ends of burial from horizontal through vertical at least eighteen inches (18") below top of ground. UF must not be installed within or below concrete or asphalt.
 - 2) Conductors must be of sufficient size (gauge) to carry the load requirements, but not less than No. 12 copper wire.
 - 3) Receptacles must be at least ten feet (10') and not more than twenty feet (20') from the inside of the pool, and be protected with a ground-fault circuit interrupter (G.F.C.I.).

EXCEPTION: A dedicated G.F.C.I.-protected single plug and of the locking and grounding type receptacle may be located five feet (5') from the inside wall of the pool for filter only.

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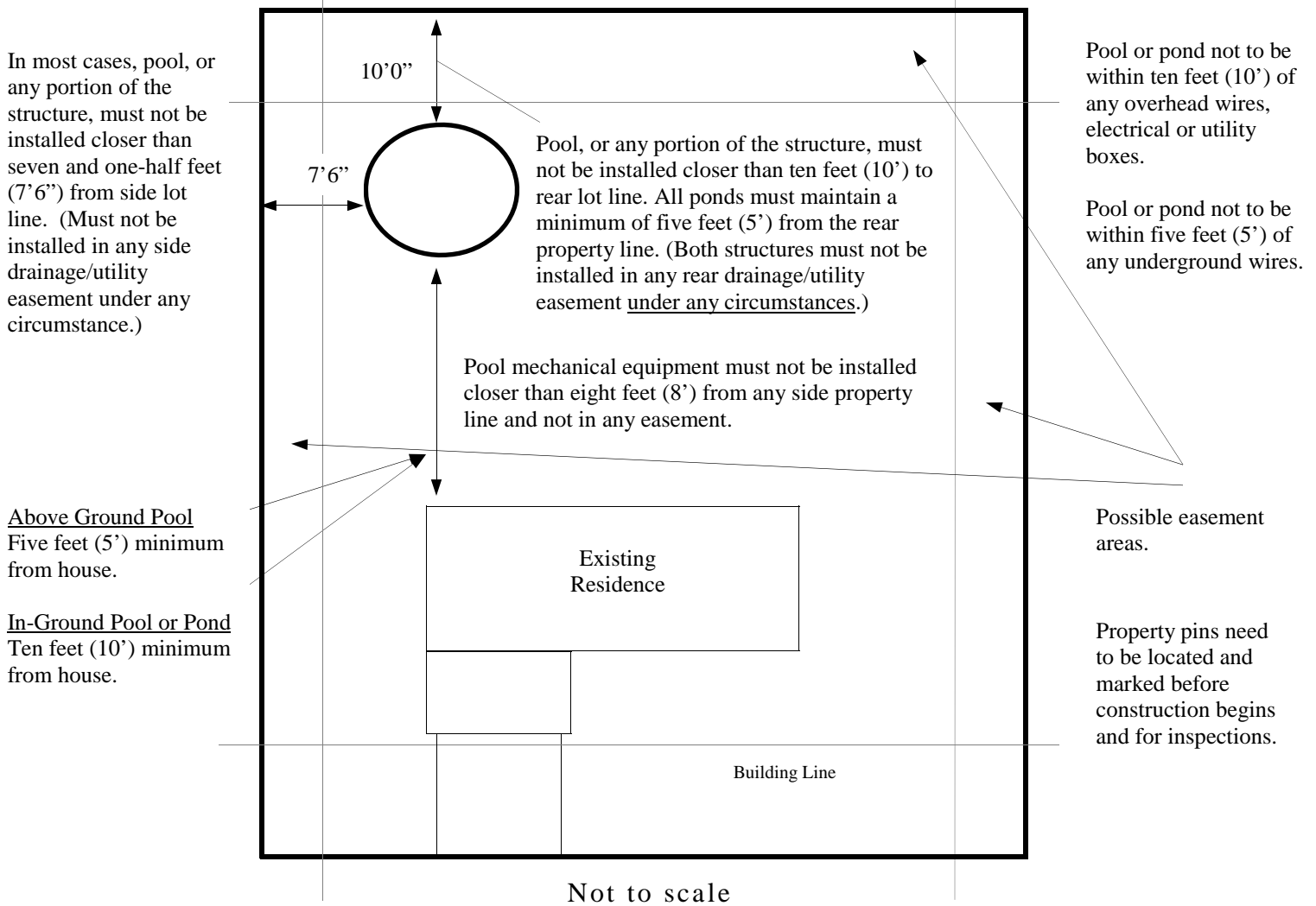
- E. *Gas Piping* must be installed in accordance with the International Fuel Gas Code Section 404. Approved underground piping systems must be installed with at least eighteen inches (18") of cover, or shielded from damage if placed at reduced depths. Any gas utilization equipment must have an accessible approved shut-off valve installed within six feet (6') of the equipment it serves. Unions or flanged connections must be downstream from this valve to permit removal of controls, flexible connectors, and quick-disconnect devices.
5. *Code Requirements:* All pools, accessory buildings, and materials must conform to the International Residential Code, International Fuel Gas Code, and the National Electrical Code. A siphon breaker is required at any hose connection.
6. *Inspections:* A final inspection is required for all swimming pools, hot tubs, spas and landscape decorative pools. The final inspection must include a final electrical inspection unless power to electrical devices (filters, heaters, etc.) is other than a 3-wire grounded, No. 12 copper wire, weather-proof extension cord with a maximum length of fifteen feet (15'), plugged into a G.F.C.I.-protected, weather-proof receptacle. If underground electric line and receptacle are installed, work must be done by the homeowner or a licensed electrician, and must be inspected before concealing. In-ground pools require footing/foundation, electrical, plumbing, grounding and final inspections. Call **871-6230** to schedule inspections at least twenty-four (24) hours in advance.
7. *Bonds:* A Parkway Preservation Bond of \$300 will be required for concrete work. When the work is complete, contact the Engineering Services Department at **871-6220** to schedule an inspection of the parkway area. If no damage has occurred, the Village will refund the bond amount submitted.
8. **Pools must not be filled with water prior to passing a final inspection.**

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Permits will not be processed unless dimensions to the structures and property line are shown on the Plat of Survey.



* Maximum ground coverage of all building structures must not exceed thirty percent (30%) of lot, except for decks and pools which may increase lot coverage to a maximum of thirty-five percent (35%).

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ELECTRICAL INSTALLATIONS

2002 NATIONAL ELECTRICAL CODE

Code rules for installing electrical equipment such as lights, receptacles, and service drops around a swimming pool area.

Application	Rule	Code Ref.
Receptacles	<p>(A)(1) Receptacles must be at least ten feet (10') from inside wall of pool.</p> <p>(A)(2) At least one receptacle must be located in area ten feet (10') to twenty feet (20') from inside wall of pool permanently installed at a dwelling.</p> <p>(A)(3) All receptacles in area ten feet (10') to twenty feet (20') from inside wall of pool must have G.F.C.I. protection.</p>	680-22(A)
	(A)(1) Exception: A receptacle for a permanently installed water pump between five feet (5') and ten feet (10') from pool.	
Lighting Fixtures	<p>(B)(1) Lighting fixtures over pool or the area five feet (5') from pool must be twelve feet (12') above water level.</p> <p>(B)(2) Lighting fixtures and lighting outlets installed in the area extending between five feet (5') to ten feet (10') horizontally from inside walls of a pool must be protected by G.F.C.I. unless installed five feet (5') above the maximum water level and be rigidly attached to the structure adjacent to or enclosing the pool.</p> <p>(B)(3) A cord-connected lighting fixture within sixteen feet (16') of the water surface must meet the requirements of other cord-and plug-connected equipment.</p>	680-22(B)
Switching Devices	Switching devices must be at least five feet (5') from inside wall of pool unless separated from pool by a solid permanent barrier.	680-22(C)
Cord- and Plug-connected Equipment	<p>Fixed or stationary equipment rated 20 amperes or less (including lighting fixture within sixteen feet (16') of water) may be cord- and plug-connected. For other than storable pools, the cord must:</p> <ol style="list-style-type: none"> 1) Not exceed three feet (3'). 2) Have equipment grounding conductor not smaller than No. 12. 3) Have grounding type plug. 	680-22(B)(5)
Clearance of Conductors	<p>Overhead conductors must not be placed over:</p> <ol style="list-style-type: none"> 1) Pool or area ten feet (10') horizontally and twenty-two and one half feet vertically from the water level. 2) Diving structures. 3) Observation stands, platforms. 	680-8

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Electrical Installations, continued.....

Application	Rule	Code Ref.
Transformers and G.F.C.I.	A) Transformers and enclosures must be approved for purpose. Transformers must be two-winding type with grounded metal barrier between windings.	680-23(A)(2)
	B) A ground-fault circuit interrupter must be an approved type.	680-5
	C) Wiring.	
Pool Heaters Electric	Electric water heaters for pools must not exceed 48 amperes in rating or be protected at more than 60 amperes.	680-9
Cord- and Plug-connected Lighting Assembly	This assembly must: 1) Have no exposed metal parts. 2) Have a fixture lamp that operates at 15 volts or less. 3) Have an impact-resistant polymeric lens, fixture body and transformer enclosure. 4) Have a transformer meeting the requirements of Section 680-5(a) with a primary rating not over 150 volts. 5) Be listed as an assembly for the purpose.	680-33(A)(B)
Under Water Lighting Fixtures	General requirements and requirements for wet-niche fixtures, dry-niche fixtures, no-niche fixtures.	680-23
Spas and Hot Tubs	<ul style="list-style-type: none">• Packaged units rated 20 amps or less must be permitted to be cord and plug connected to facilitate the removal or disconnection.• Outdoor installations packaged units utilizing a factory installed remote panel board must be permitted to be connected with not more than six feet (6') of liquid-tight flexible conduit or be cord- and plug-connected with a cord not longer than fifteen feet (15') if protected by a G.F.C.I.• At least one 20 amp receptacle must be located a minimum of five feet (5') and not more than ten feet (10') from the inside wall of the spa or hot tub and G.F.C.I. protected.	680-40 680-41