



City of West Chicago
 Community Development Department
 475 Main Street, West Chicago, IL. 60185
 Phone: (630) 293-2200, ext. 131

Permit Number: _____
Date Received: ____ / ____ / ____
Permit Fee: \$ _____
FOR OFFICIAL USE ONLY

APPLICATION FOR SWIMMING POOL PERMIT

 (Property Owner)

 (Address) _____ (Phone)
 HOMEOWNER ASSOCIATION? _____

 (Contractor)

 (Address) _____ (Phone)

TYPE OF POOL: _____ above-ground _____ in-ground

SIZE (ft): _____ length _____ width (or _____ diameter) _____ height or depth

ESTIMATED COST OF CONSTRUCTION: \$ _____



**PLEASE ATTACH SURVEY INDICATING LOCATION AND
 MEASUREMENTS OF POOL, RESIDENCE, ACCESSORY STRUCTURES,
 ENCLOSURES, GATES, LADDERS, STREETS, AND ALLEYS**



STATEMENT OF APPLICANT:

I certify that all of the above statements are true and accurate and that all work performed as outlined above will be in accordance with the description that accompanies this application.

 (Signature of Applicant) _____ (Print Name) _____ / ____ / ____
 (Date)

FOR OFFICIAL USE ONLY

Permit Issued

Permit Denied – Reason: _____

Plan Reviewer: _____ Date: ____ / ____ / ____

City of West Chicago

Swimming Pool Application



- All swimming, bathing, spa's, and decorative pools (deeper than 24 inches) require a permit before being installed in the City of West Chicago. Pool permits may be obtained at the Community Development Department's counter at City Hall, 475 Main Street.
- No electrical lines may be located:
 - Underneath the pool
 - Within 5 feet of the pool wall
 - Directly above the pool; lines must be 10 feet away *horizontally* from the inside walls of the pool (see Article 680-8 for overhead clearances from diving platforms, etc.)
- Pool owners must maintain an adequate barrier surrounding either the pool or rear yard. (See attached Section B105 - Barrier Requirements.)
- See attached sheet for required electrical information.
- Private swimming pools are not permitted in front yards. Pools shall not be located less than 10 feet from any rear, side, or corner side yard property line. Pools shall not be located less than 10 feet from the house or principal residence. Pools may be located less than 10 feet from decks, as long as a 10-foot separation between the pool and house is observed.
- At least one means of exiting from the pool, such as a ladder or steps, must be provided. Ladders and steps shall have non-slip surfaces. Handrails must be provided, unless there are less than five steps or when the steps extend for the full width of the side or end of the pool.
- Decks built to service pools require a separate building permit.
- AFTER PERMIT APPROVAL, REQUIRED INSPECTIONS:
 - UNDERGROUND ELECTRIC INSPECTION
 - FINAL INSPECTION

POOL AND HOT TUB PERMIT TIPS AND HANDOUT

1. The walls of the pool or hot tub must be located at least 10 feet from any rear, side, or corner side yard property line. Pools or hot tubs must also be at least 10 feet from the house.
2. Swimming pools or hot tubs are not permitted in any front yard.
3. A fence is required if the pool or hot tub is 24 inches or more in depth. The following are alternatives:
 - a) A fence at least 48 inches in height, which surrounds the pool, hot tub or the entire yard without any breaks (except for lockable gate). (See attached Barrier Requirements for Swimming Pools, Spas and Hot Tubs for additional requirements.
 - b) A hot tub with a solid lockable cover does not need to be enclosed by a fence.
 - c) Any pool less than 24" equipped with water recirculating system needs to be connected to a GFCI receptacle.
4. Any ladders used in conjunction with the pool shall be completely removed OR swing up and lock when not in use.
5. The pool shall be equipped with a cover when not in use for prolonged periods or during the off-season.
6. The pool shall not be located within 22.5 feet vertically and 10 feet horizontally of any overhead ComEd wiring or within five feet horizontally to underground ComEd wiring. (Contact J.U.L.I.E at 1-800-892-0123 for utility locations.)

NOTE: For life safety reasons, pools must be located in strict adherence to the above-specified distances.

7. The pool filter and pumps shall be equipped with a ground fault interrupter.
8. In-ground pools must meet additional requirements. Contact the Building Department at 630/293-2200, ext. 131.
9. A building permit is required. To avoid unnecessary delays in reviewing the permit application, submit the following:
 - a) A copy of your plat of survey indicating the location of all existing site improvements plus the proposed pool or hot tub and the distance from lot lines, the location of the filter system and ground fault interrupter, the location of utility lines and the type, height and location of existing or proposed fences. A typical plat of survey is attached and is provided for descriptive purposes only.
 - b) Need J.U.L.I.E. confirmation number. Please leave the J.U.L.I.E. marking in place as long as possible.
 - c) Brochures or diagrams illustrating details of the type of pool, filter and any self-contained fence or deck.
10. PERMIT FEE: Above Ground Pool: \$125, Hot Tub: \$100, In-Ground Pool: \$300 (plus applicable plan review fees).

Please Note: Processing time is seven – 10 business days. If the application is incomplete, the time may be longer.

WEST CHICAGO COMMUNITY DEVELOPMENT DEPARTMENT 630/293-2200 ext.131.

ELECTRICAL – SWIMMING POOLS

1. No receptacles are allowed within 10 feet of the inside walls of the pool, with the exception that one single, locking, GFI protected receptacle may be installed between five and 10 feet of the pool for the purpose of providing power to the pool pump motor.
2. Any receptacle located within 20 feet of the pool must be GFI protected.
3. Lighting fixtures or lighting outlets shall not be installed over the pool or area five feet wide surrounding the pool, unless they are 12 feet or more above the maximum water level.
4. Lighting fixtures and lighting outlets located within five to 10 feet of the inside walls of the pool must be GFI protected unless they are five feet or more above the maximum water level and rigidly attached to a permanent structure.
5. All switches must be located at least five feet away from the inside walls of the pool.
6. No overhead wiring shall be allowed over the pool or within 10 feet of the pool unless it is 22.5 feet or more above the maximum water level.
7. No underground wiring (except that serving the pool equipment) shall be located under the pool or within five feet of the pool.
8. Underground wiring may be rigid or IMC conduit six inches burial depth, no exceptions.
9. All metal parts of the pool, installed pool equipment, electrical conduit and fixed metal parts within five feet horizontally from the inside walls of the pool and 12 feet above the maximum water level, shall be bonded together with a copper wire of the size no less than #8 AWG.

BARRIER REQUIREMENTS FOR SWIMMING POOLS, SPAS AND HOT TUBS

Section AG102 Definitions

Barrier: A fence, wall, building wall or combination thereof which completely surrounds the swimming pool and obstructs access to the swimming pool.

Swimming Pool: Any structure intended for swimming or recreational bathing that contains water over 24 inches deep. This includes in-ground, above-ground and on-ground swimming pools, hot tubs and spas.

Section AG105 Barrier Requirements

AG105.1 Application

The provisions of this chapter 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.

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 above grade, and the maximum vertical clearance between grade and the bottom of the barrier shall be two inches, 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 four inches.
2. Openings in the barrier shall not allow the passage of a four-inch diameter sphere.
3. Solid barriers that do not have openings, such as masonry or stonewall shall not contain indentations or protrusions except for normal construction.
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, the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches.
5. 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 the vertical members shall not exceed four inches. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches in width.
6. Maximum mesh size for chain link fences shall be a 1.25 inch 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.
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.
8. Access gates shall comply with the requirements of Section AG105.2, Items 1-7 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 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 three inches below the top of the gate and
 - 8.2 The gate and barrier shall have no opening greater than 0.5 inches within 18 inches 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 the 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 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 a touch pad 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 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.

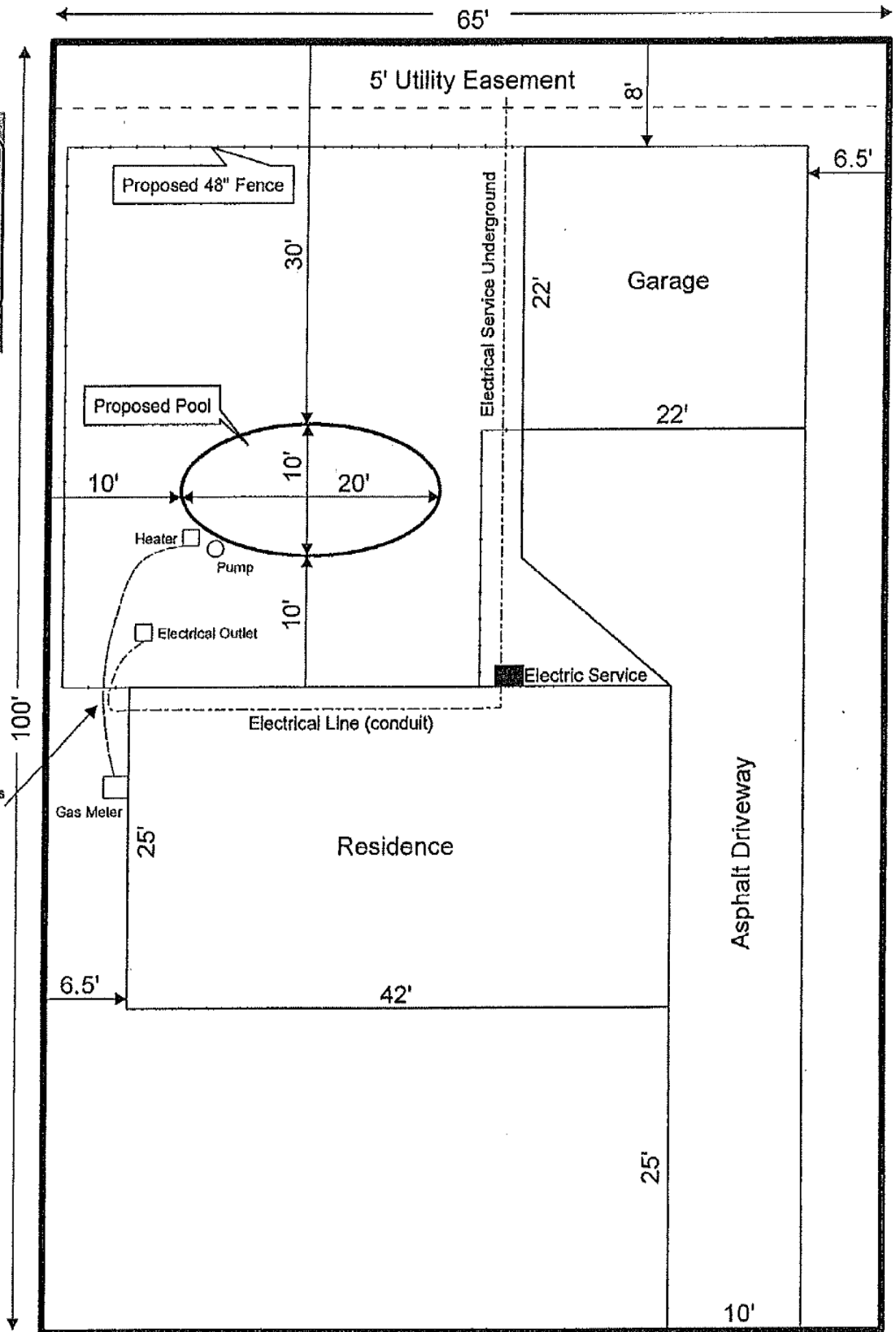
10. Where an above-ground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder of steps then:

10.1 The ladder or steps shall be capable of being secured, locked or removed to prevent access or 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 four-inch diameter sphere.



Example
Site Plan
for
Pools

Outside electric & gas
lines to be buried with
at least 8" of cover



1 inch equals 10 feet

Joliet Street

**Electrical Pool Information to the 2002 N.E.C.
For Permanently Installed Pools**

Outdoor Spa or Hot tub 680.4

- Shall comply with provisions of permanently installed swimming pools I and part II of article 680
1. Disconnecting means is required to 250.122
 2. The grounding wire must be sized to 250.122
 3. Liquid tight (seal tight) can or be used up to 6 ft. in length. 680.42(A)(1)

10' Minimum to 20' Maximum 680.22(A)(3)

Note #1
Disconnecting means must be a minimum of 5' from pool. 680.12, 450.102 (There may be a switch on the pump motor. Check your unit.)

Single, twist-lock grounding type receptacle GFCI protected 680.21(A)(1) And with in-use cover 408.(B)(1) See note 2 about GFCI protected

5" minimum heavy wall conduit and IMC 18" minimum non-metal conduit (PVC) 300.5

Raceways must be of Rigid wall metal conduit, intermediate metal conduit, Rigid nonmetallic conduit (PVC) with a #12 insulated copper conductor. 680.21(A)(1)

Grounding. The following Equipment shall be grounded: (1) wet-niche and no-niche underwater lighting fixtures, (2) dry-niche underwater lighting fixtures, (3) all electric equipment located within 5ft of the inside wall of the pool, (4) all electric equipment associated with the recirculating system of the pool, (5) junction boxes, (6) transformer enclosures, (7) ground-fault circuit-interrupters, (8) panels/boards that are not part of the service equipment and that supply any electric equipment associated with the pool. 680.6
The equipment grounding conductor shall be sized in accordance with table 250.122 but not smaller than #12 AWG
This should be a continuous green ground wire.

5" Minimum 680.22(A)(1)
If the pool has plastic standards an upper bond wire will be needed if upper ring is metal.
#8 Solid bending conductor 680.26(A)-(B)

For all non-double insulated pump motors a bond is required to the motor housing, the pool frame and all metal conduits

- Notes:
- #1: All boxes, covers & fittings are W.P. outdoor type & sunlight resistant.
 - #2 Self-contained unit circuit breaker type, receptacle type (like face-less GFI outlets) or other approved type to the twist-lock outlet. 680.5 Keep in mind GFCI outlets can only protect up to 1.5 hp motors.
 - #3 All PVC must be of the electrical type and be listed. (Conduit must be gray in color)
 - #4 All pump motors shall be listed and labeled as per 110.3 (B) UL or equivalent by an approved testing agency to U.S. standards.

Conduit must be twist-lock with #12 copper conductor 3" long 680.7
Clamp must be stainless steel, brass or copper if heavy wall or IMC is used 680.26(C)