Swimming Pool Permit Application

Village of Shorewood
One Town Center Boulevard
Shorewood, IL 60404
Phone (815) 553-2310 ● Fax (815) 744-6766

SUBMISSION CHECKLIST:

1) Copy of Plat of Survey –Draw pool, equipment, and electrical or gas line plans on plat and indicate exact dimensions and setbacks from all property lines, structures and buildings, flood plains, gas pipelines and overhead utility lines.
2) Copy of the contract/proposal with the pool contractor.
3) Brochures/plans indicating the material, size, framing, design or specifications for the pool, equipment, ladders, fence latching, pool topper/fencing, or alarms/covers.
4) Homeowner's Association's written approval (if applicable).
5) Utility lines flagged by J.U.L.I.E. & the Village (must call 811 to schedule), and pool location physically marked for a pre-inspection to be performed by the Building Inspector prior to permit release.
6) Fence Application (if needed).
7) Engineered drawings (if altering grade and if needed).
8) Payment (to be provided at permit pick up): credit, cash or check made out to Village of Shorewood. (Credit/debit payments have service fees (cost based) that will be added on by the payment processor.)
   ABOVE GROUND POOLS $75.00 IN-GROUND POOLS $150.00

- Please allow a **minimum of one week** for processing. Applications are processed in the order in which they are received and undergo building and village code plan reviews. Incomplete submissions will extend the review time.
- Pool regulations are on our website www.vil.shorewood.il.us. Municipal regulations are on our website in the Municipal Code Title 8, Chapter 5.
- When the review/permit is complete and approved, the applicant will be notified.

APPLICANT & OWNER INFORMATION

APPLICANT (Contact) Name:	APPLICANT Phone:
PROPERTY OWNER Name:	PROPERTY OWNER Phone:
ADDRESS where work is to be done:	

CONTRACTORS ***Please note all contractors must be licensed with Shorewood PRIOR to permit release***

Pool Contractor:	Phone:
Electrical Contractor:	Phone:
Gas Line Contractor:	Phone:
Concrete Contractor:	Phone:
Excavating Contractor:	Phone:

*If you are not the legal owner of the property and are renting the premises, a letter of approval to install a pool must be mailed by the property owner to the Village of Shorewood, Building & Zoning Division.
*If the property has not obtained a Certificate of Occupancy, and you are not the legal owner of the property due to new construction, a permit will not be released until occupancy has been released.

THE FOLLOWING MUST BE COMPLETED FOR REVIEW OF APPLICATION:

1. Type of Installation: _____Above Ground _____ In-Ground _____Semi In-Ground

2. Size of Pool: _____ Feet Round _____ Feet x _____ Feet

3. Are you in a flood zone or located near a gas pipeline easement? _____Yes _____No

4. Is there a septic field located on the property? _____Yes _____No

5. Will grading need to be altered?: _____Yes _____No

   If yes, do you have engineered grading plans? _____Yes _____No

6. Is the pool or pool equipment located in any easements? _____Yes _____No

7. Have you called 811 to schedule for the J.U.L.I.E. lines to be flagged and also physically marked the location of the pool so that a pre-inspection of the pool location can be performed by our Building Inspector prior to permit release to confirm location compliance? _____Yes _____No

8. The pool will be located:

   _____ Feet from the wall of the home

   _____Feet from the rear property line

   _____Feet from the side property line & _____feet from opposing side property line

   _____Feet from the ComEd line

   _____Feet from an accessory structure (if applicable)

9. Is the yard currently fenced in?: _____Yes _____No

   If no, do you have a pool topper fence or fence application attached to this application for submittal? _____Yes _____No

   If yes, does it have gates that swing outward from the rear yard and have self-closing and self-latching mechanisms? _____Yes _____No

10. Will ALL sides of the pool have a safety barrier to prevent small children from gaining unauthorized entry into the pool? _____Yes _____No

    If no, have you supplied brochures for alarming mechanisms on doors or ASTM rated pool covers? _____Yes _____No

11. Will construction require driving over public infrastructure, such as curbs, parkway or sewer/water/storm lines? _____Yes _____No

12. What is the overall cost of the project? $ _____ (ATTACH COPY OF SALES ORDER)

ELECTRICAL – (All conductors must be copper. No Romex is allowed. No ground rods are allowed.)

13. Will electrical lines be installed? _____Yes _____No

If yes, where exactly will the lines be installed? _____

What material will be used? _____

At what depth will the electrical lines be installed? _____

At what distance will GFCI receptacles be located from the inside wall of the pool? (Code states there must be a minimum of 1 receptacle 6-20 feet from the pool wall. 680.22A3) _____

Will a contractor be installing the electrical? _____Yes _____No

If no, does existing electrical need to be brought up to current code? _____Yes _____No

If yes, will a contractor be updating the electrical? _____Yes _____No

GAS – (NO underground joints allowed.)

14. Will gas lines be installed? _____Yes _____No

If yes, will Anodeless Risers or corrosive resistance protective coating over metallics be used?

_____

At what depth will the gas line be installed? _____

Will the existing gas meter be sufficient to support the extra supply? _____Yes _____No

PLUMBING –

15. Will suction outlets be installed? _____Yes _____No

INSPECTIONS ARE REQUIRED: A field verification of pool location and J.U.L.I.E. lines is required PRIOR to release of any permits and starting any work to ensure location is compliant. Once the permit is released, inspections will be required prior to backfilling, prior to covering underground gas or electrical lines, prior to pouring any concrete, once bonding is complete, and in all cases, a final inspection is required. (Inspections will vary based on individual projects.) At final inspection it is required that all fencing and safety mechanisms are installed PRIOR to filling the pool, unless directed otherwise by manufacturers specifications, in order to receive an approval to occupy the pool.

Signature of Applicant **Signature of Owner** **Date**

_____ _____ _____

Authorized Agent hereby certifies that the proposed work is authorized by the owner of record and he/she has been authorized by the owner to make this application as his/her authorized agent. Attach copy of signed contract.

Village of Shorewood
One Towne Center Blvd., Shorewood, IL 60404
Phone: 815-553-2310 Fax: 815-744-6766

Pool, Spa and Hot Tub Guidelines

The following general information relates to your building permit application, the materials required and the basic construction of above/under/semi-underground swimming pools and hot tub or spa installations within the Village limits. *You can assist the Building Department and prevent delays in issuing your permit by submitting the correct information for each item.*

Pool/Hot Tub/Spa Permit: Required PRIOR to beginning construction or installation.

Plat of Survey: Required showing location, size of pool/spa (length, width, depth) and the distance from all property lines/primary structure/ flood plains/pipeline easements. Equipment location should also be indicated.

Set Back Requirements: Pools must maintain a minimum of 6 feet from any rear or interior property line and not closer than 10 feet from the nearest wall of the principal building or structure, provided the property does not have any easements larger than 6 feet. Structures/surfaces/equipment are not permissible in any easements or septic fields. Spas/hot tubs must maintain a minimum of 6 feet away from any rear or interior property lines, but do not have a restriction on proximity to the principal building. Both must maintain a minimum of 5 feet from underground electrical lines and 18 inches between lines. The following parts of pools shall NOT be placed under existing electric service-drop conductors or any other open overhead wiring nor shall such wiring be installed above the following: pools and the area extending 10 feet horizontally from the inside of the walls of the pool, diving structure, observation stand, tower or platform. (High voltage lines may require an increase in the minimum distance horizontally from the pool wall and overhead line.) Windows in walls, enclosures or fences containing or facing hot tubs, spas or whirlpools where the bottom exposed edge of the window is less than 60 inches measured vertically above any standing or walking surface and that is more than 60 inches (5 feet) measured horizontally and in a straight line from the water's edge shall be considered a hazardous location and will require tempered glass (R308).

Lot Coverage: Per Village Code 10-3-11-E: Percentage Of Required Yard Occupied: Detached accessory buildings or structures shall not occupy more than twenty five percent (25%) of the area of a required rear yard.

Pool/Hot Tub/Spa Brochure or Plan: Attach brochures and plans indicating the material, size, framing, and design of the pool/hot tub/spa. Manufacturers specifications are required for review against the building code. Provide specifications for the pool equipment, fold-up ladders, fence latching, pool topper/fencing, or alarms/covers.

Easements: Pool/hot tub/spas OR equipment shall NOT be located within any easement, including gas pipeline easements or designated flood routes.

Safety Barriers : A minimum of 4 feet fencing is required around pools, at least 6 feet away from underground pool walls. Fencing must be installed prior to adding water to the pool. Protection guards/toppers around above ground pools are required if no fence is installed around the yard. Protection guards/toppers must be adequate enough to supply an overall barrier 4 feet from grade. If a yard fence will not be in place, a fold up lockable ladder or gate is required for safety. All fence gate swings must have an outward swing from the backyard or pool. Gates should have a self-latching and self-closing mechanism. The latches shall be placed on

the pool side at least 3 inches from the top of the gate or 54 inches from the threshold of the gate or otherwise made inaccessible to small children. A dwelling house or accessory building may be used as part of such fence, however must have an audible warning/alarm (listed and labeled according to UL 2017) or powered safety cover in compliance with ASTM F 1346. Alarms shall be listed and labeled in accordance with UL 2017, and the deactivation switch must be located at least 54 inches above the threshold of the door. Spas/hot tubs with a safety cover which complies with ASTM F 1346 shall be exempt from providing extra barriers.

Weight Support: All spas and hot tubs must be installed upon an approved surface designed to support the weight load per manufacturers specifications.

Temporary Barriers: Temporary fencing, a minimum of 4 feet high, must be in place during construction and remain until the permanent fence/barrier is installed.

Electrical: Rigid metal, non-corrosive/galvanized conduit or PVC is acceptable. 18 inches deep for PVC, or 6 inches for rigid metallic conduit. Schedule 80 is preferred/recommended, but schedule 40 is allowed if it is rated for underground. All conductors must be copper. No Romex is allowed. If electric is installed, please indicate so at the time of application. Grounding in conduit should include #12 AWG copper cable. (See below for additional information.) GFCI outlets should be located anywhere on the exterior of the home. GFCI receptacles shall be located a minimum of 6 feet from and not more than 20 feet from the inside wall of pools and outdoor spas and hot tubs.

Gas: Anodeless Risers or corrosive resistance protective coating over metallic is acceptable. G2415.11.2 – Pipe protected coatings and wrappings shall be approved for the application and shall be factory applied. Uncoated threaded or socket welded joints may NOT be used where corrosion is known to occur. Minimum of 8" deep. One continuous length of PE Pipe, and two above ground joints. NO underground joints. Before any system of piping is put in service or concealed/backfilled, it shall be tested to ensure that it is gas tight. Testing, inspection and purging of piping systems shall comply with code G2417.

Plumbing: Suction outlets to be designed and installed in accordance with ANSI/APSP-7.

Protection Against Corrosion: Metallic piping or tubing exposed to corrosive action, such as soil condition or moisture, shall be protected in an approved manner.

Bonding: See attached diagram.

Grounding: NO ground rods are to be installed. The following equipment shall be grounded per code E4205.1:

1. Through-wall lighting assemblies and underwater luminaries other than those low-voltage lighting products listed for the application without a grounding conductor.
2. All electrical equipment located within 5 feet of the inside wall of the pool, spa or hot tub.
3. All electrical equipment associated with the recirculating system of the pool, spa or hot tub.
4. Junction boxes.
5. Transformer and power supply enclosures.
6. Ground-fault circuit-interrupters.

Village of Shorewood
One Towne Center Blvd., Shorewood, IL 60404
Phone: 815-553-2310 Fax: 815-744-6766

7. Panel boards that are not part of the service equipment and that supply any electrical equipment associated with the pool, spa or hot tub.

Grading/Retaining Walls: If being installed on a slope, stamped structural drawings by a design professional must be submitted. If there is a grade difference greater than 30 inches, a guardrail/handrail must be installed.

Inspections: A field verification of pool location and J.U.L.I.E. lines is required PRIOR to release of any permits and starting any work to ensure location is compliant. Once the permit is released, inspections will be required prior to backfilling, prior to covering underground gas or electrical lines, prior to pouring any concrete, once bonding is complete, and in all cases, a final inspection is required. (Inspections will vary based on individual projects.) At final inspection it is required that all fencing and safety mechanisms are installed PRIOR to filling the pool, unless directed otherwise by manufacturers specifications, in order to receive an approval to occupy the pool.

Damage Bond: Any work requiring heavy equipment to travel over Village infrastructure (parkway, curbs and public walks) will require that a $5,000 Damage Bond be posted, and the original & signed bond given to the Village, to protect against any possible damage to infrastructure. Once construction is finalized, and the Village Engineer can confirm the positive status of the infrastructure, the Damage Bond will be released back to the applicant.

PERMANENTLY INSTALLED SWIMMING POOL CHECK LIST TO THE 2011 NEC

1. _____Are there any underground conductor within 5' horizontally from the inside wall at the pool? 680.10

2. _____ Are there any overhead Electrical Conductors in the area extending 10 ft. horizontally from the inside wall of the pool and 22.5' up from water level? 680.8

3. _____Is the pump motor third party listed to U.S. standards with a label for a pool motor? (UL1081 is the standard) 110.3(B)

4. ____Is the cord on the pump motor #12 wiring and no longer than 3' with a twist lock cord cap? 680.7

5. ____Is the receptacle 6' from the inside pool wall? 680.22(A)(1)

6. ____Is the receptacle a twist-lock and protected by GFCI? 680.5 This must be a GFCI breaker or GFCI face-less type outlet or GFCI outlet, rated for the h.p. at the pump. (GFCI outlets can only do up to 1 1/2 h.p. motors.)

7. ____Is the cover for the receptacle an in-use cover? 406.9(B)(1)

8. ____Is there a GFCI general purpose outlet on a general purpose circuit 10' from pool wall and not more than 20'? 680.22(A)(3)

9. ____Is there a disconnecting switch located at least 5' from the inside wall of the pool? 680.12

10. ____Is the raceway rigid heavy wall metal conduit, intermediate metal conduit or rigid nonmetallic conduit (PVC) and listed for electrical use? 680.21(A)(1) 110.3 (b) (Note: There shall be no plumber's putty (pipe dope) or plumber's Teflon tape (white tape) on the ends of the metal type conduit.)

11. ____Is the raceway buried to the correct depth? RMC, IMC=6 inches and PVC 18inches from the top of the conduit to grade. 300.5 and Table 300.5

12. ____There must be a minimum of a #12 green wire installed in the raceway. 680.21(A)(1) The wire must be green in color. 250.119

13. ____The grounding conductor must pick up all junction boxes, light fixtures, pump motors, transformer enclosures, devices like switches, outlets, etc. 680.6

14. ____Is there a grounding conductor between panel boards that are not part of the service equipment subpanels and that supply any electric equipment associates with the pool? 680.25(B) The wire shall be sized in accordance with table 250.122 and shall also be insulated.

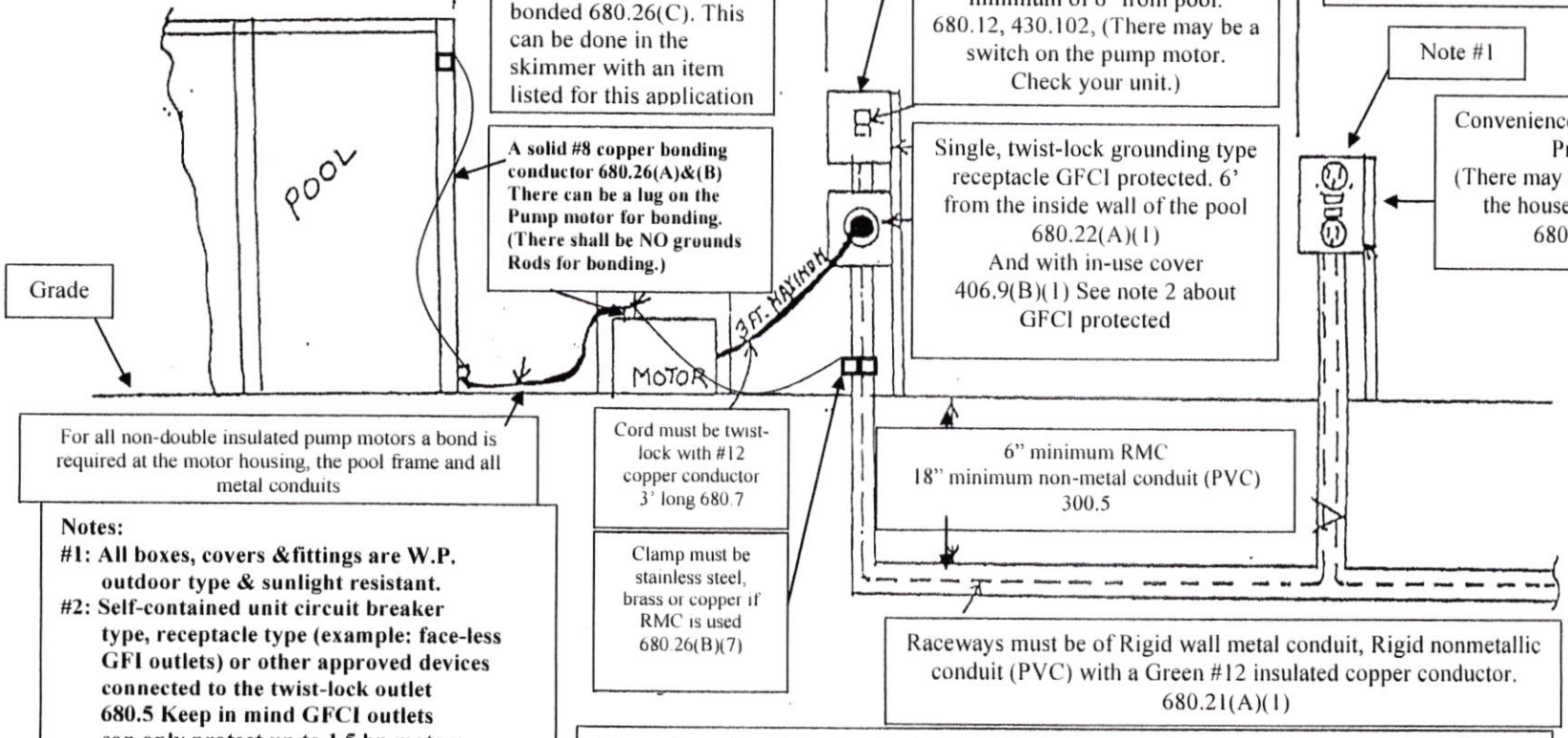
15. ____The bonding conductor must be a solid #8 copper wire. (Bare conductor is OK). This wire must pick up the pool frame (upper and lower ring if metal), water, pump motor, pool heater (if one), RMC or IMC piping, and any metallic part within 5' of the pool. 680.26(B)(1)(2)(3)(4)(5)(6) and (7)(C)

16. ____Is the bonding conductor connection completed with a clamp which is of stainless steel, brass, or copper? (No zinc parts)

17. ____Double insulated pump motors do not have to be bonded with the solid #8 but must have a #12 green wire to them. They shall have a #8 solid bonding wire in the vicinity of the pool pump motor for replacement motors.

18. ____If RNC (PVC) is used with RNC PVC boxes, these items must be listed "electrical and sunlight" resistant. Support and expansion fitting may be needed. (Article 352) (No plumbing type pipes.)

Electrical Pool information to the 2011 N.E.C.
For Permanently installed pools



6' Minimum
680.22(A)(1)

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

If the pool has plastic standards an upper bond wire will be needed if upper ring is metal. The pool water shall be bonded 680.26(C). This can be done in the skimmer with an item listed for this application

A solid #8 copper bonding conductor 680.26(A)&(B) There can be a lug on the Pump motor for bonding. (There shall be NO grounds Rods for bonding.)

Note #1

Disconnecting means must be a minimum of 6' from pool. 680.12, 430.102, (There may be a switch on the pump motor. Check your unit.)

Single, twist-lock grounding type receptacle GFCI protected. 6' from the inside wall of the pool 680.22(A)(1)
And with in-use cover 406.9(B)(1) See note 2 about GFCI protected

Note #1

Convenience receptacle GFCI Protected
(There may be a receptacle on the house close enough)
680.22(A)(3)

Grade

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

Cord must be twist-lock with #12 copper conductor 3' long 680.7

Clamp must be stainless steel, brass or copper if RMC is used 680.26(B)(7)

6" minimum RMC
18" minimum non-metal conduit (PVC)
300.5

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

Outdoor Spa or Hot tub 680.42

Shall comply with provisions of permanently installed swimming pools part I and part II of article 680

1. Disconnecting means is required.
2. The grounding wire must be sized to 250.122
3. Liquid tight (seal tight) can only be used up to 6 ft. in length. 680.42(A)(1)

Notes:

#1: All boxes, covers &fittings are W.P. outdoor type & sunlight resistant.

#2: Self-contained unit circuit breaker type, receptacle type (example: face-less GFI outlets) or other approved devices connected 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.

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) panelboards 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 shall be a continuous green ground wire.

BADJR 5-28-2014