

F. Any person violating this section shall be subject to the penalty provisions as set forth in this code as well as any other equitable action which the village may institute to enforce the provisions of this section. (Ord. 92-0-14, 6-2-1992)

## **CHAPTER 4 SWIMMING POOL REGULATIONS**

### **6-4-1: DEFINITIONS:**

**PRIVATE POOL:** A receptacle for water, or an artificial pool of water having a depth at any point of more than two feet (2'), intended for the purpose of immersion or partial immersion therein of human beings, and including all appurtenant equipment constructed, installed and maintained in or above the ground. (Ord., 6-27-63)

**PUBLIC POOL:** An artificial basin of water constructed primarily for the purpose of public swimming and auxiliary structures including dressing and locker rooms, toilets, showers, and other areas and enclosures that are intended for the use of persons using the pool, but shall not include pools and auxiliary structures and equipment for private residences intended only for the use of the owner and friends. (Ord. 79-25, 11-27-79)

### **6-4-2: STATE REGULATIONS, COMPLIANCE:**

The construction, operation and maintenance of public swimming pools within the Village shall comply with all requirements of the rules of the State of Illinois Department of Public Health as filed with the Secretary of State of the State of Illinois.

### **6-4-3: LICENSE AND PERMIT PROVISIONS:**

#### **A. Construction Permits:**

1. **Village Permit:** No swimming pool shall be constructed within the Village on and after the effective date of this Chapter until a permit from the Village shall have first been obtained and the requirements of this Chapter have been fulfilled. A permit fee for the construction of a public swimming pool shall be established by the Village Board from time to time. (Ord., 6-27-63)

It shall be unlawful to proceed with the construction, installation, enlargement or alteration of any private residential swimming pool "Class B, C, or D" and appurtenances within the Village unless permits therefor shall have first been obtained from the Building Inspector.

a. All drawings and plans for the construction, installation, enlargement or alteration of any "Class B, C, or D" private residential swimming pool and

appurtenances shall first be presented to the Building Inspector for examination and approval as to proper location and construction.

b. All plans and drawings for "Class B, C, or D" private residential swimming pools shall be drawn to scale of not less than one-eighth of one inch to the foot (1/8" = 1'), on paper or cloth, in ink, or by some process that will not fade or obliterate. All distances and dimensions shall be accurately figured and drawings made explicit and complete, showing the lot line, and including information pertaining to the pool, walk, and fence construction, water supply system, drainage and water disposal systems, and all appurtenances pertaining to the swimming pool. Detail plans and vertical elevations shall also be provided.

c. All "Class B, C, or D" private residential swimming pools, appurtenances, water supply and drainage systems shall be constructed in conformity with the approved plans. (Ord. 79-25, 11-27-79)

2. State Permit: No permit shall be issued for the construction of a public swimming pool until a permit has first been obtained from the State of Illinois Department of Public Health as required by the Statutes of the State. (Ord., 6-27-63)

3. Permit Fees: The fee for a permit for the erection or construction of any "Class C or D" swimming pool shall be ten dollars (\$10.00) for each thousand cubic feet or fraction thereof to be contained within the proposed pool as determined by the plans and specifications submitted with the application for permit.

The fee for enlargement or alteration of any "Class C or D" private residential swimming pool shall be five dollars (\$5.00) (Ord. 79-25, 11-27-79)

B. Annual License; Fee: Any person operating or maintaining a public swimming pool within the Village shall pay an annual license fee in the amount of seventy five dollars (\$75.00) to the Village for the operation and maintenance of same.

#### **6-4-4: INSPECTIONS:**

A. Public Pools: The Village Board may from time to time, through a qualified representative of the Village, inspect public swimming pools and make reports and recommendations with respect to the operation and maintenance thereof for the purpose of keeping the same sanitary and protecting the health and safety of persons using same. (Ord., 6-27-63)

B. Private Pools: The Building Inspector shall inspect all private residential swimming pools to determine whether or not the provisions of this Code regarding health, sanitation and safety applicable thereto are being complied with. Upon discovery of any violation of this Chapter it shall be the duty of the Building Inspector to issue a written order requiring correction of the defect or violation, and, if necessary, terminate the use of the pool until the defect or violation is corrected. Whenever this

Chapter provides for alternative standards for construction or operation or approval, the Building Commissioner shall approve or disapprove the proposal or alternative after first determining if it conforms with the general standards of this Chapter and properly provides for health, safety and sanitation in the use and operation of private residential swimming pools.

#### **6-4-5: CLASSIFICATION OF POOLS:**

- A. A "Class A" private residential swimming pool is hereby defined as any above-the-ground pool which has a total capacity for water of not more than one thousand five hundred (1,500) U.S. gallons.
- B. A "Class B" private residential swimming pool is hereby defined as any above-the-ground pool which has a total capacity for water in excess of one thousand five hundred (1,500) U.S. gallons.
- C. A "Class C" private residential swimming pool is hereby defined as any above-the-ground pool which has a total capacity for water in excess of one thousand five hundred (1,500) U.S. gallons and is so designed and constructed to be a permanent year-round structure. An attached walkway or platform located six feet (6') above the ground and equipped with an ingress ladder capable of being locked in a raised position six feet (6') above ground is hereby declared an acceptable substitution for yard or pool fences required by this or other Municipal Code provisions.
- D. A "Class D" private residential swimming pool is hereby defined as any below-the-ground pool.

#### **6-4-6: LOCATION REGULATIONS:**

No portion of a swimming pool or appurtenances outside a building shall be located closer than eight feet (8') to any side or rear property line, or building line.

- A. No portion of a "Class C or D" private residential pool, including any appurtenances thereto, shall be located closer than eight feet (8') to any building or property line. No "Class C or D" private residential swimming pool or equipment appurtenant thereto shall be permitted in that part of any side yard between buildings.
- B. All "Class B, C, and D" private residential swimming pools must be located to the rear of the building line.

#### **6-4-7: CONSTRUCTION SPECIFICATIONS:**

- A. Recirculation Pools: All swimming pools "Class B, C, and D" shall be of the recirculation class in which circulation of the water is maintained through the pool by pumps, the water drawn from the pool being clarified and disinfected before being returned to the pool.

B. Materials: "Class B, C, and D" swimming pool walls and floor shall be constructed of any impervious material which will provide a tight tank with white or light colored finish and easily cleaned surfaces. The floor and bottom surface of the pool shall have a nonslip finish as smooth as possible. The side and end walls of a pool shall present a smooth finish and shall be a vertical to a depth of at least six feet (6') or shall have a slope or curvature meeting one of the following conditions:

1. The pool wall may be vertical for thirty inches (30") from the water level, below which the wall may be curved to the bottom with a radius at any point equal to the difference between the depth at that point and thirty inches (30").

2. To a depth of six feet (6'), except as in this subsection, the wall's slope shall not be less than one foot (1') horizontal in six feet (6') vertical.

3. All "Class C" private residential swimming pools with elevated walkways or platforms shall be constructed in accordance with accepted engineering standards and the construction thereof shall be subject to the approval of the Village Engineer.

C. Structures Design: "Class C or D" swimming pools shall be designed to withstand the water pressure from within and to resist the pressure of the earth when the pool is empty, to a pressure of two thousand two hundred (2,200) pounds per square foot. The slope of the bottom of any part of a pool in which the water is less than five feet (5') in depth shall not be more than one foot (1') in each ten feet (10'). The maximum slope where water is five feet (5') or more in depth shall not exceed one foot (1') in two feet (2').

D. Walk Areas: Unobstructed walk areas not less than thirty six inches (36") wide shall be provided to extend entirely around the pool. The walk area around "Class D" pools shall be constructed of impervious material, and the surfaces shall be of such as to be smooth and easily cleaned and of nonslip construction. The slope of the walks shall have a pitch of at least one-fourth inch to the foot ( $1/4" = 1'$ ) designed so as to prevent back drainage from entering the pool.

E. Fences:

1. All "Class A, B, or C" private residential swimming pools in excess of thirty inches (30") in depth shall be prohibited unless they are constructed, installed, maintained, operated and used within an area, not to exceed the yard area of one single family residence, enclosed by a fence four feet (4') in height above the ground level with suitable gates and self-closing mechanism and self-latching devices. Fences shall be constructed of materials not less than fifty percent (50%) open and designed to prevent access to the yard and pool by children other than members of the household.

2. All "Class D" private residential swimming pools shall be prohibited unless the required walk area around the perimeter of the pool is completely surrounded by a fence of the class required in this Section.

F. Steps or Ladders:

1. Steps, ladders, slides, or other devices designed for entry into "Class A, B, or C" private residential swimming pools thirty inches (30") or less in depth are hereby prohibited.
2. All "Class D" private residential swimming pools, in excess of thirty six inches (36") in depth, shall be provided with two (2) or more means of egress in form of steps or ladders. At least one such means of egress shall be floated on a side of the pool at both the deep end and shallow end of the pool. The treads of steps shall be constructed of nonslip material and at least three inches (3") wide for their full length, and the steps and ladders shall have handrails on both sides.
3. All "Class B and C" type swimming pools shall be provided with at least one means of ingress in the form of steps or ladders.

**6-4-8: SAFETY REQUIREMENTS:**

- A. A skilled swimmer shall be present at all times while any private residential swimming pool in excess of forty eight inches (48") in depth is in use.
- B. Every private swimming pool in excess of forty eight inches (48") in depth shall be equipped with one or more throwing ring buoys not more than fifteen inches (15") in diameter and having a three-sixteenths of one inch (3/16") manila line, nylon or dacron line attached which is equal in length to the most distant point across the swimming area of the pool, and equipped with one or more lights, at least two (2) strong poles with blunted ends not less than twelve feet (12') in length for making reach assists or rescues.
- C. No private residential swimming pool less than forty eight inches (48") in depth shall be equipped with any diving board or platform which extends over the edge of the pool over the water or exceeds the height of the sides of the pool, and no private residential swimming pool in excess of forty eight inches (48") in depth shall have any diving board or platform more than three feet (3') above the water level of the pool.

**6-4-9: SANITATION AND MAINTENANCE:**

A. Skimmers:

1. Every "Class B" private residential pool shall be required to be equipped with at least one hand skimmer, and each said pool shall be skimmed each day prior to use for swimming or bathing.
2. Every "Class C or D" private residential swimming pool shall be equipped with skimmer or skimmers as described in the following subsections of this Section.

In each swimming pool, at least one skimming device shall be provided for each eight hundred (800) square feet of surface area or fraction thereof. Skimmers shall be located at least thirty feet (30') apart. Handholds shall be provided and consist of a bull-nosed coping not over two and one-half inches (2 1/2") thick for the two inches (2") or an equivalent approved handhold.

The handhold must be no more than nine inches (9") above the water line. Skimming devices shall be built into the pool wall, shall adequately remove floated oils and waste and shall meet the following general specifications:

- a. Each skimmer shall be designed for a flow-through rate of at least thirty (30) gallons per minute and a total capacity of all skimmers on any pool shall be at least fifty percent (50%) of the required filter flow of the recirculation system.
- b. They shall be automatically adjustable to variations in water level over a range of at least three inches (3").
- c. An easily removable and cleanable basket or screen through which all overflow must pass shall be provided to trap large solids.
- d. The skimmer shall be provided with a device to prevent airlock in the suction line. If an equalizer pipe is used, it shall provide an adequate amount of makeup water for pump suction should the water of the pool drop below the weir level. This pipe shall be at least two inches (2") in diameter and shall be located at least one foot (1') below the lowest overflow level of the skimmer.
- e. An equalizer line shall be provided with a valve that will remain tightly closed under normal operating conditions, but will automatically open at a differential of not more than four inches (4") between the pool level and the level of the overflow tank.
- f. The overflow weir shall be of sufficient length to maintain a rate of flow of at least twenty (20) gallons per minute per lineal foot of weir lip.

B. Water Supply: No source of water other than that secured from the Village water works distribution system or private wells shall be used in swimming pools.

C. Inlets:

1. Swimming pool water recirculation system inlets shall be located so as to produce so far as possible uniform circulation of water throughout the pool without the existence of dead spots and to carry pool bottom deposits to the outlets, and shall discharge at a minimum depth of ten inches (10") below the pool overflow level. A minimum of one recirculation system inlet shall be provided for every six hundred fifteen (615) square feet of surface area of the pool.

2. "Class B, C, and D" pools shall be equipped with suitable facilities for adding make-up water as needed. There shall be no physical connection between the water supply line and the pool system. If the make-up water is added directly to the pool, the outlet shall be at least six inches (6") above the upper rim of the pool. If the make-up water line discharges to a surge or balancing tank, the point of discharge shall be at least six inches (6") above the rim of the tank. If a hose connection from a sill cock or other plumbing fixture is to be used for supplying make-up water, then an approved vacuum breaker shall be installed between the sill cock or control valve at the fixture and hose connection. The vacuum breaker shall be installed at a height not less than seven feet six inches (7'6") above the floor, platform or ground upon which a person would stand when operating the sill cock or control valve. Maximum size of the fill pipe to be two inches (2").
3. The systems supplying recirculated water and make-up water to the pool shall be constructed in conformance with the ordinances regulating plumbing.

#### D. Outlets:

1. In swimming pools "Class B, C, and D", thirty feet (30') in width or less, water circulation system outlets shall be located so as to provide at least one outlet at the deepest point in the pool. If the pool width is more than thirty feet (30'), multiple outlets shall be provided and spaced not more than thirty feet (30') apart, nor closer than four feet (4') to any wall. All pool drain outlets shall be equipped with gratings having an area of openings not less than four (4) times the cross-sectional area of the outlet pipe. The gratings shall be of such design so they cannot be readily removable by bathers and will not injure bathers' fingers. One outlet shall be provided in "Class C and D" pools for each eight hundred (800) square feet of surface area.
2. Pools shall be equipped with facilities for completely emptying the pool and the discharge of the pool water to the sewer shall be at a rate not exceeding two hundred (200) gallons per minute. No direct connections shall be made to the sewer.
3. Water drained from the pool shall not be discharged to the sewer system during periods of rain storms. At no time shall the rate of drain water discharge exceed a flow of two hundred (200) gallons per minute.

#### E. Recirculation System and Appurtenances:

1. All "Class B, C, and D" private residential swimming pools shall have systems for the recirculation and purification of water in the pools, and all such systems shall be maintained so that they meet the requirements of the subsections below, and they shall be subject to the approval of the Building Commissioner and the Health Officer both in design and maintenance.

2. The recirculation systems required shall consist of pumping equipment, a hair and lint catcher, filters, together with the necessary pipe connections to the inlets and outlets, facilities and pipe connections necessary for back-washing filters, and facilities and equipment for disinfecting the pool water.

3. Every swimming pool shall have a recirculating system with an hourly capacity equal to the pool volume divided by eight (8).

4. The recirculation system pump shall have sufficient capacity to discharge the volume of water required for an eight (8) hour turnover of the pool against the maximum head in the recirculating system.

5. The pump used for backwashing filters shall have sufficient capacity to provide a filter backwash rate of at least twelve (12) gallons per minute per square foot of filter area.

6. A hair and lint catcher or strainer shall be installed on the suction side of the circulation pump to prevent hair, lint and other extraneous matter from reaching the pump and filters. Hair and lint catcher shall be so designed that they can be easily dismantled for the cleaning and inspection and shall be so located as to be easily accessible for cleaning. The design features shall be as follows: Water passed through the strainer from the outside; the strainer is made of noncorrosive material; the width or diameter of strainer openings is not more than one-eighth inch (1/8"); the area of the strainer openings shall be at least five (5) times the cross-sectional area of the inlet pipe to the strainer.

7. Recirculation systems shall contain rapid pressure filters. Sufficient filter area shall be provided to filter the entire contents of the pool in eighteen (18) hours at the rate of not more than three (3) gallons per square foot of filter area per minute. The filter backwashing facilities shall be sufficient to backwash at a rate of twelve (12) gallons per minute per square foot of filter area. All backwash water and effluents shall be discharged to the sewer through an indirect connection. Pressure filters shall be equipped with readily accessible air relief valves, loss of head or pressure gauges on the inlet and outlet pipes, and an access head or hole large enough to permit inspection, maintenance and repair work. Sight glasses that can be easily removed for cleaning shall be provided in the effluent line from the filter units.

8. Equipment shall be provided for the disinfection of all pool water. Any disinfection method using materials other than chlorine compounds shall be subject to the approval of the Building Commissioner. Disinfection equipment installed for the use of chlorine compounds shall have sufficient capacity to maintain a minimum free chlorine residual of not less than four-tenths (0.4) parts per million or more than six-tenths (0.6) parts per million. The disinfectant shall be introduced into the recirculation system ahead of the filters.

9. Gaseous chlorination systems shall not be made use of as a disinfection method for pool water.

**6-4-10: ELECTRICAL REQUIREMENTS:**

- A. Conformance Required: All electrical installations provided for, installed, and used in conjunction with private residential swimming pools, shall be in conformance with the latest Village Electrical Code.
- B. Conductors: No current-carrying electrical conductors shall cross private residential swimming pools, either overhead or underground or within fifteen feet (15') of such pools.
- C. Grounding: All metal fences, enclosures or railings, near or adjacent to swimming pools, which might become electrically alive as a result of contact with broken overhead conductors or from any other cause, shall be effectively grounded.

**6-4-11: GENERAL OPERATION AND MAINTENANCE REGULATIONS:**

- A. A substantial protective cover shall be provided and installed over all private residential swimming pools which are not dismantled and stored in some storage facility during the nonswimming season.
- B. All private residential swimming pools shall be maintained in a clean and sanitary condition, and all equipment appurtenant thereto shall be maintained in satisfactory operating condition during the periods that the pool is in use.
- C. No private residential swimming pool shall be used, kept, maintained, or operated in the Village if such use, keeping, maintaining or operating shall be the occasion of any nuisance or shall be dangerous to life or limb or detrimental to health.
- D. Inspection: The Building Inspector shall inspect all private residential swimming pools to determine whether or not the provisions of this Code regarding health, sanitation and safety applicable thereto are being complied with. Upon discovery of any violation of this Chapter it shall be the duty of the Building Inspector to issue a written order requiring correction of the defect or violation, and, if necessary, terminate the use of the pool until the defect or violation is corrected. Whenever this Chapter provides for alternative standards for construction or operation or approval, the Building and Zoning Officer shall approve or disapprove the proposal or alternative after first determining if it conforms with the general standards of this Chapter and properly provides for health, safety and sanitation in the use and operation of private residential swimming pools. (Ord. 79-25, 11-27-79)

**CHAPTER 5  
NUCLEAR FREE ZONE**