

POOL REQUIREMENTS

The Village of Hawthorn Woods requires that a permit be obtained prior to the installation of a pool. Pools are subject to the following requirements:

REQUIREMENTS

Effective June 30, 2005, **all contractors and subcontractors** doing business in the Village of Hawthorn Woods **must be licensed by the Village**. The term "contractor" and "subcontractor" shall include, but not be limited to: any person or company who undertakes to construct, alter, improve, install, repair, remodel, rehabilitate, renovate or move any land, house, building or other structure (of any kind or nature, whether residential or not) or any fixture or any other item that is located on or in the ground and/or attached to something that is located on or in the ground. All licenses are \$250.00 and are valid from May 1st to April 30th of each year. Licenses are half price after November 1st of each year.

- All pools shall be in-ground type.
- All pools shall be located in the rear yard.
- **For all other pool regulations refer to Village Code Section 8-3-1 through 8-3-18. ATTACHED**

CHECKLIST FOR OBTAINING A BUILDING PERMIT

The following information is required to obtain a building permit. Incomplete or inaccurate information will delay the processing of your permit.

- Obtain contractor/subcontractor license through the Village
- Complete building permit application
- 2-sets of pool plans stamped by an Illinois Architect
- Plat of survey with proposed pool and appurtenances shown. Survey must reflect current site conditions, building and septic locations. See Village Code Section 8-3-5 for additional plan requirements
- Spotted survey showing pool, walkways and fencing is required after installation is complete and prior to receiving certificate of occupancy
- Site Drainage/Grading Plan
- In the case of corner lots only, a landscape plan must be submitted**
- Lake County Health Department approval
- REFUNDABLE BOND MUST BE PAID BY THE POOL COMPANY**

HAWTHORN WOODS
BUILDING DEPARTMENT PERMIT PROCEDURES

PLAN REVIEW & PERMIT FEE INFORMATION

Plan Review fee:	\$250.00
Permit Fee:	\$50.00
Inspections:	Varies
C.O.:	\$75.00
Road Bond	\$4,000.00

(REFUNDABLE BOND MUST BE PAID BY POOL COMPANY – NO EXCEPTIONS)

INSPECTIONS

All inspections must be called in to the appropriate inspector. In order to receive the refundable bond, all inspections must be completed and approved. It is the responsibility of the contractor to call for inspections.

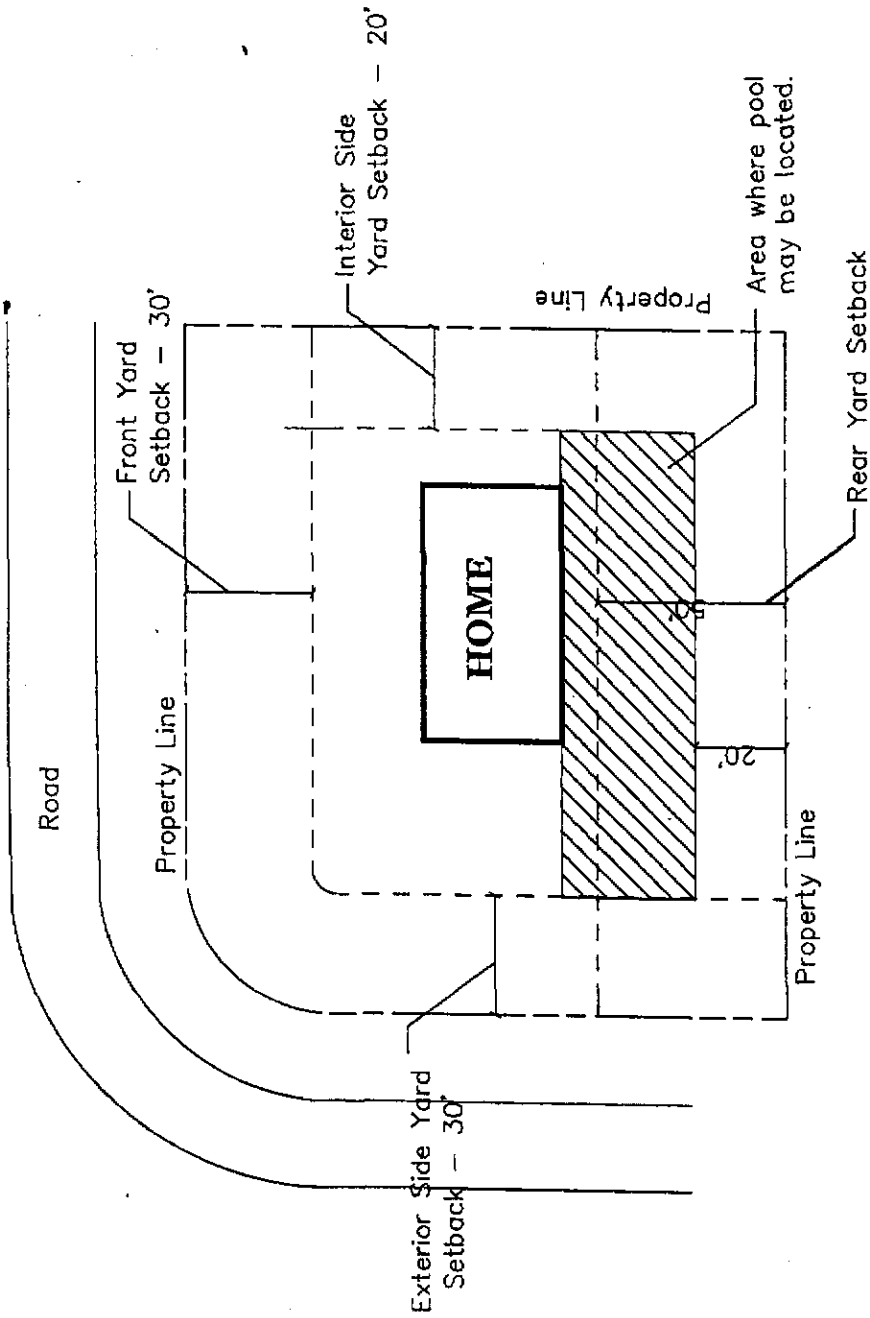
To schedule an inspection, call (847) 438-5500:

General Inspections: Bill Holmes, extension 2213 (Even numbered permits)
General Inspections: Egle Pagh, extension 2215 (Odd numbered permits)
Electrical Inspections: Bill Holmes, extension 2213
Plumbing Inspections: John Fenger, extension 2211

Please note, the information in this handout is intended to be general in nature and is not a substitute for applicable Village codes or ordinances. If you should have any questions relating to pools, inspections or construction procedures, please call (847) 438-5500 ext. 2201, 2202, 2203, 2204 Monday, Tuesday, Wednesday, Friday, 8:30am to 5:00pm; Thursday, 8:30am to 8:00pm; Saturday 8:30am to 12:00pm.

HAWTHORN WOODS
BUILDING DEPARTMENT PERMIT PROCEDURES

EXHIBIT A



CHAPTER 3
SWIMMING POOLS

SECTION:

- 8-3- 1: Definition
- 8-3- 2: Compliance Required
- 8-3- 3: Building Permit Required, Fee
- 8-3- 4: Location of Pools and Appurtenances
- 8-3- 5: Drawings and Plans
- 8-3- 6: Design and Construction Specifications
- 8-3- 7: Recirculation and Filtering
- 8-3- 8: Inlets, Outlets and Make-Up Water
- 8-3- 9: Skimmers
- 8-3-10: Water Supply and Conditioning
- 8-3-11: Water Drainage
- 8-3-12: Electrical Requirements
- 8-3-13: Steps or Ladders
- 8-3-14: Walk Areas
- 8-3-15: Fences
- 8-3-16: Safety Precautions
- 8-3-17: Inspections
- 8-3-18: Violation, Penalty

8-3-1: **DEFINITION:** The term "swimming pool" is hereby defined as 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. (Ord. 186-70, 7-13-70)

8-3-2: **COMPLIANCE REQUIRED:** It shall be unlawful to construct, maintain, install or enlarge any swimming pool in the Village except in compliance with all the provisions of this Chapter. (Ord. 186-70, 7-13-70)

8-3-3: BUILDING PERMIT REQUIRED, FEE: It shall be unlawful to proceed with the construction, installation, enlargement or alteration of any private residential swimming pool and appurtenances within the Village unless permits therefor shall have first been obtained from the Village. The fee for a permit for the erection or construction of a swimming pool shall be as set forth in subsection 11-1-1H2c of this Code, which fee shall be paid to the Village at the time application for said permit is made, and shall be in addition to all applicable plan review and inspection fees established by ordinance of the Village. (Ord. 186-70, 7-13-70; amd. Ord. 546-92, 11-16-92; 1995 Code)

8-3-4: LOCATION OF POOLS AND APPURTENANCES: All swimming pools and appurtenances, including, but not limited to, pumps, pool filters and pool water disinfection equipment, fences and sidewalks, shall be located so as to comply with all codes and ordinances of the Village and all applicable statutes, codes, ordinances, rules and regulations of any other governmental body having jurisdiction over the property. (Ord. 552-93, 1-11-93)

8-3-5: DRAWINGS AND PLANS:

- A. Approval: All drawings and plans for the construction, installation, enlargement or alteration of any swimming pool and appurtenances shall first be presented to the Village for examination and approval as to proper location and construction.
- B. Scale of Plans, Required Information: All plans and drawings shall be drawn to a scale of not less than one-fourth inch to one foot ($\frac{1}{4}'' = 1'$) and shall be under the seal of a licensed architect of the State of Illinois. 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 in accordance with the Building Code¹.
- C. Conformance to Plans: All private residential swimming pools, appurtenances, water supply and drainage systems shall be

1. See Chapter 1 of this Title.

constructed in conformity with the approved plans. (Ord. 186-70, 7-13-70; amd. Ord. 546-92, 11-16-92; 1995 Code)

- D. Pool Locations: Pool locations shall be approved by the Lake County Health Department for required distance to septic systems (20 foot minimum). Pools shall not be placed in areas designated for septic expansion area. (Ord. 351-85, 4-9-85)

8-3-6: DESIGN AND CONSTRUCTION SPECIFICATIONS:

- A. Materials for Construction: Swimming pool walls and floors 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 or 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 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 the point, and thirty inches (30").

2. To a depth of six feet (6'), except as in subsection A1 above, the wall's slope shall not be less than one foot (1') horizontal in six feet (6') vertical.

- B. Structural Design: 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'). (Ord. 186-70, 7-13-70)

8-3-7: RECIRCULATION AND FILTERING:

- A. All swimming pools shall be underground type. Underground pools in sloping areas of the property may be a maximum of two feet six inches (2'6") above grade for not more than fifty percent (50%) of the pool area. (Ord. 351-85, 4-9-85)

- B. The swimming pool's recirculation system shall consist of pumping equipment, hair and lint catcher, filters, together with the necessary pipe connections to the pool inlets and outlets, facilities and pipe connections necessary for backwashing filters, and facilities and equipment for disinfecting the pool water.
- C. Every swimming pool shall have a recirculating system with an hourly capacity equal to the pool volume divided by eight (8).
- D. 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.
- E. 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.
- F. 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 catchers 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 passes 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 ($\frac{1}{8}$ "); the area of the strainer openings shall be at least five (5) times the cross-sectional area of the inlet pipe to the strainer.
- G. Recirculating 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. (Ord. 186-70, 7-13-70)

8-3-8: INLETS, OUTLETS AND MAKE-UP WATER:**A. Inlets:**

1. Swimming pool water recirculation system inlet 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.

2. The inlets shall discharge at a minimum depth of ten inches (10") below the pool overflow level.

3. A minimum of one recirculation system inlet shall be provided for every six hundred fifteen (615) square feet of surface area of the pool.

B. Make-Up Water:

1. Pools shall be equipped with suitable facilities for adding make-up water as needed.

2. 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 rim of the tank.

3. 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 the 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 is to be two inches (2").

C. Outlets:

1. In swimming pools 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.

2. 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.

3. 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.

4. One outlet shall be provided for each eight hundred (800) square feet of surface area.

- D. Construction Specifications: The system supplying recirculated water and make-up water to the pool shall be constructed in conformance with the ordinances regulating plumbing. (Ord. 186-70, 7-13-70)

8-3-9: **SKIMMERS:**

- A. In every swimming pool, at least one skimming device shall be provided for each eight hundred (800) square feet of surface area or fraction thereof and shall be located at least thirty feet (30') apart.
- B. Handholds shall be provided and consist of a bull-nosed coping not over two and one-half inches ($2\frac{1}{2}$ ") thick for the outer two inches (2") or an equivalent approved handhold. The handhold must be no more than nine inches (9") above the normal water line.
- C. Skimming devices shall be built into the pool wall, shall adequately remove floated oils and waste and shall meet the following general specifications:
1. 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.
 2. Skimmers shall be automatically adjustable to variations in water level over a range of at least three inches (3").
 3. An easily removable and cleanable basket or screen through which all overflow water must pass shall be provided to trap large solids.
 4. 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 make-up 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.

5. 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.

6. 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. (Ord. 186-70, 7-13-1970)

8-3-10: WATER SUPPLY AND CONDITIONING:

- A. Equipment shall be provided for the disinfection of all pool waters. Disinfection equipment installed for the use of chlorine compounds shall have sufficient capacity to maintain a minimum free chlorine residual of 0.5 parts per million.
- B. Any disinfection method using materials other than chlorine compounds shall be subject to the approval of the village.
- C. The disinfectant shall be introduced into the recirculation system ahead of the filters.
- D. Gaseous chlorination systems shall not be made use of as a disinfection method for pool water. (Ord. 186-70, 7-13-1970; amd. Ord. 546-92, 11-16-1992; 1995 Code)

8-3-11: WATER DRAINAGE:

- A. 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.
- B. No direct connection shall be made to the sewer.
- C. Water drained from the pool shall not be discharged to the sewer system during periods of rain or storms.
- D. At no time shall the rate of drain water discharge exceed a flow of two hundred (200) gallons per minute.

- E. Plans for draining water from pool must be approved by the village. (Ord. 186-70, 7-13-1970; amd. Ord. 546-92, 11-16-1992; 1995 Code)

8-3-12: ELECTRICAL REQUIREMENTS:

- A. All electrical installations provided for, installed and used in conjunction with private residential swimming pools shall be in conformance with the ordinances regulating electrical installations.
- B. No current carrying electrical conductors shall cross private residential swimming pools, either overhead or underground or within fifteen feet (15') of such pools.
- C. All metal fences, enclosures or railings near or adjacent to swimming pools which might become electrically charged as a result of contact with broken overhead conductors or from any other cause shall be effectively grounded. (Ord. 186-70, 7-13-1970; amd. 1995 Code)

8-3-13: STEPS OR LADDERS:

- A. Two (2) or more means of egress in the form of steps or ladders shall be provided for all swimming pools.
- B. At least one such means of egress shall be located on a side of the pool at both the deep end and shallow end of the pool.
- C. Treads of steps and ladders shall be constructed of nonslip material and at least three inches (3") wide for their full length.
- D. Steps and ladders shall have a handrail on both sides. (Ord. 186-70, 7-13-1970)

8-3-14: WALK AREAS:

- A. Unobstructed walk areas not less than five feet (5') wide shall be provided to extend entirely around the pool. (Ord. 186-70, 7-13-1970; amd. Ord. 1047-03, 10-27-2003)
- B. The walk area shall be constructed of impervious material, and the surfaces shall be of such material as to be smooth and easily cleaned and of nonslip construction.

- C. The slope of the walks shall have a pitch of at least one-fourth inch ($\frac{1}{4}$ ") to the foot, designed so as to prevent back drainage from entering the pool. (Ord. 186-70, 7-13-1970)

8-3-15: **FENCES¹:**

- A. All pools shall be completely enclosed by a fence erected along the periphery of the pool and any immediately adjacent pool walk, deck or terrace area appurtenant to the pool; provided, however, that any such fence shall meet the yard requirements set forth in title 9 of this code. In addition, no such fence shall be located in or on an easement and must be no further than fifteen feet (15') from the edge of the pool and no closer than five feet (5') to the edge of the pool. A fence may start at and be connected to the house, encircle the pool and return to and connect to the house; provided, however, that any exterior door leading from the house to the pool must be equipped with an audible alarm.
- B. All fence openings or points of entry into the pool area enclosure shall be equipped with gates and all gates shall be equipped with self-closing and self-latching devices placed at the height of four feet (4') and shall be so placed as to be inaccessible to small children. Fence and gates shall be a minimum of four feet (4') and a maximum of five feet (5') in height above the surface of the ground as measured along the fence line, and shall be of the open type and shall be wrought iron or similar alternate material as approved by the village. Stockade fences are not permitted. All fence posts shall be decay or corrosion resistant and shall be adequately braced below grade (minimum of 42 inches) in a concrete base.
- C. Berms are not permitted adjacent or near to the pool as a means of denying entry into the pool area or for any other purpose, nor is a fence permitted on top of a berm. Any landscaping inside a swimming pool fence must be so located as not to contribute to the contamination of the pool water. Landscaping shall be provided outside the fence to screen the fence from the view of the neighbors.
- D. All applications for a building permit shall also be deemed an application for a fence permit. Such applications shall be accompanied by a grading plan and a plat of survey which indicates the placement of the fence, pool walk, pool and all other accessories

1. See also chapter 4 of this title.

to be installed or constructed, in addition to the other requirements set forth in applicable village codes and ordinances. (Ord. 1047-03, 10-27-2003)

8-3-16: **SAFETY PRECAUTIONS:** Every swimming pool shall be equipped with one or more throwing ring buoys not more than fifteen inches (15") in diameter and having sixty feet (60') of three-sixteenths inch ($\frac{3}{16}$ ") manila line attached, and one or more light but strong poles with blunted ends and not less than twelve feet (12') in length, for making reach assists or rescues. (Ord. 186-70, 7-13-1970)

8-3-17: **INSPECTIONS:** The building department periodically shall inspect all swimming pools during construction to determine whether or not the applicable village codes and ordinances are being complied with. Such inspections shall include, but shall not be limited to, the following: site, pool foundation, fence foundation, underground electric, underground plumbing, electrical bonding, concrete deck slab, final electric, final plumbing, final overall and final site. (Ord. 1047-03, 10-27-2003)

8-3-18: **VIOLATION, PENALTY:** Any person found guilty of a violation of any section of this chapter shall be subject to penalty as provided in section 1-4-1 of this code, and each day any violation of any section of this chapter shall continue shall constitute a separate offense. (Ord. 546-92, 11-16-1992; amd. 1995 Code)

CHAPTER 4

FENCES

SECTION:

- 8-4-1: Definitions
8-4-2: Fences Prohibited
8-4-3: Exemptions From Provisions
8-4-4: Penalty

8-4-1: **DEFINITIONS:**

NATURAL FENCE: Same as a structural fence, except that it is made of natural growth such as shrubs, hedge, evergreens, etc.

STRUCTURAL FENCE: A structure which is a barrier and is used as a boundary or means of protection or confinement which is made of manufactured material such as, but not limited to, wire mesh, chainlink, wood or stone material. (Ord. 209-74, 7-9-1974)

8-4-2: **FENCES PROHIBITED:** No structural fence shall hereafter be constructed, and no natural fence shall hereafter be planted within the boundaries of the village. (Ord. 209-74, 7-9-1974)

8-4-3: **EXEMPTIONS FROM PROVISIONS:** This chapter shall not apply to:

- A. Fencing of swimming pools¹.
- B. Land zoned agricultural and used for agricultural purposes within the village.

1. See section 8-3-15 of this title.

- C. Dog runs, provided said dog runs meet the following standards:
1. Minimum height shall be four feet (4').
 2. Maximum height shall be six feet (6').
 3. Maximum area shall be two hundred (200) square feet.
 4. Maximum width shall be fifteen feet (15').
 5. Maximum length of any side shall be twenty feet (20').
 6. The dog run shall be constructed of either chainlink with black vinyl coating, wrought iron, or material similar to wrought iron.
 7. Landscaping shall be planted to achieve one hundred percent (100%) opacity at the time of installation. One hundred percent (100%) opacity shall be maintained twelve (12) months per year.
 8. An inside corner of the house or alcove shall be used to screen the dog run, if available.
 9. The dog run shall not be visible from the street.
 10. The dog run must be attached to the house; if the dog run is rectangular in shape, the longest side of the dog run must be attached to the house. (Ord. 1100-05, 1-24-2005)

8-4-4: **PENALTY:** Any person violating the provisions of this chapter shall, upon conviction thereof, be subject to penalty as provided in section 1-4-1 of this code for each offense. Each day that a violation is *permitted* to exist after notification by the village clerk shall constitute a separate offense. (Ord. 209-74, 7-9-1974; amd. 1995 Code)