

TOWN OF NEW CANAAN
77 MAIN STREET
NEW CANAAN, CT 06840
(203)594-3084
Fax (203)594-3121

BUILDING DEPARTMENT

SWIMMING POOL SPA & HOT TUB REQUIREMENTS

(Code Change effective 9/1/04)

New legislation affecting Building Officials (continued from P. 11)
PA 99-140 requires an additional pool alarm for residential swimming pools for one or more families before a permit can be issued for a new pool or substantial alteration of an existing pool. The alarm must emit a sound of 50 decibels when a 15 pound object enters the water. The alarm is in addition to all other pool barrier requirements. The law is effective October 1, 1999.

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Required Pool Inspections

1. REBAR / STRUCTURAL / SOIL INSPECTIONS: All rebar to be supported for concrete encasement. *Note Use of wood or clay brick not acceptable as support.
2. BONDING: Metal parts, per section 680.22 National Electrical Code. Needs to be inspected before covering.

FOR POOL & SPA

3. UNDERGROUND PIPING: To skimmers, drains, etc. Needs to be inspected before covering.
4. UNDERGROUND WIRING: From house to pool, pool lighting, etc. Needs to be inspected before covering and access to house is required.
5. FINAL INSPECTION FOR CO: Before scheduling final inspection, approval from Planning and Zoning (ie; As Built Survey), is required. All fencing, gates, closures, pool and surrounding work needs to be complete.

Note Underground Piping and Wiring will be inspected at the same time. Reinspection fee is \$25.00. This fee is paid when inspection is scheduled and job is not ready.*

APPENDIX G

SWIMMING POOLS, SPAS, AND HOT TUBS

Section AG101

General

AG101.1 General. The provision of this appendix shall control the design and

Section AG102

Definitions

AG102.1 General. For the purposes of these requirements, the terms used shall be defined as follows and as set forth in Chapter 2.

ABOVE GROUND/ON GROUND POOL. See "Swimming Pool"

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

HOT TUB. See "Swimming Pool"

RESIDENTIAL. That which is situated on the premises of a detached one- or two-family dwelling or a one-family townhouse not more than three stories height.

SPA, NONPORTABLE. See "Swimming Pool"

SPA, PORTABLE. A nonpermanent structure intended for recreational bathing, in which all controls, water-heating and water-circulation equipment are an integral part of the product.

SWIMMING POOL. Any structure intended for recreational bathing that contains water over 24 inches (610 mm) deep. This includes in-ground, above ground, and on-ground swimming pools, hot tubs, and spas.

construction of swimming pools, spas, and hot tube installed in or on the lot of a one- and two-family- dwelling.

SWIMMING POOL, INGROUND. A swimming pool which is totally contained within a structure and surrounded on all four sides by walls of said structure.

SWIMMING POOL, OUTDOOR. Any swimming pool which is not an indoor pool.

Section AG103

Swimming Pools

AG103.1 In-ground pools. In-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG107.

AG103.2 Above ground and on-ground pools. Above-ground and on-ground pools shall be designed and constructed in conformance with ANSI/NSPI-5 as listed in Section AG107.

Section AG104

Spas and Hot Tubs

AG104.1 Permanently installed spas and hot tubs. Permanently installed spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-3 as listed in Section AG107.

AG104.2 Portable spas and hot tubs. Portable spas and hot tubs shall be designed and constructed in conformance with ANSI/NSPI-6 as listed in Section AG107.

AG105.2 OUTDOOR SWIMMING POOL. An outdoor swimming pool including in-ground, above-ground, or on-ground pools, hot tubs and spas shall be provided with a barrier that shall comply with the following:

1. The top of the barrier shall be at least 48 inches above grade measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches measured on the side of the barrier that 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 4 inches.
2. Openings in the barrier shall not allow passage of a 4-inch diameter sphere.
3. Solid barriers that do not have openings, such as masonry or stone walls, shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.
4. Where the barrier is composed of horizontal and vertical members and the distance between tops of the horizontal members is less than 45 inches, the horizontal members shall be located on the swimming pool side of the barrier. Spacing between vertical members shall not exceed $1 \frac{3}{4}$ inches in width. Where there are decorative cutouts within vertical or horizontal members, spacing within the cutouts shall not exceed $1 \frac{3}{4}$ inches in width.
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 vertical members shall not allow passage of a 4-inch diameter sphere. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed $1 \frac{3}{4}$ inches in width.
6. Maximum mesh size for chain link fences shall be $2 \frac{1}{4}$ inches square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than $1 \frac{3}{4}$ inches.
7. Where the barrier is composed of diagonal members, such as lattice fence, the maximum opening formed by the diagonal members shall not be more than $1 \frac{3}{4}$ inches.
8. Access gates shall comply with the requirements of Section AG105.2, Items 1 through 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 surrounding openings shall comply with the following: The release mechanism shall be located on the pool side of the gate at least 3 inches below the top of the gate and the gate and barrier shall have no opening greater than $\frac{1}{2}$ inches within 18 inches of the release mechanism.
9. Where a wall of a dwelling serves as part of the pool barrier, one of the following conditions shall be met:

9.1 The pool shall be equipped with a power safety cover in compliance with ASTM F1346-91; or

9.2 All 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 within 7 seconds after the door and its screen, if present, are opened and be capable of being heard throughout the house during normal activities. The alarm shall automatically reset under all conditions. The alarm 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 device(s) shall be located at least 54 inches above the threshold of the door; or

9.3 All doors with direct access to the pool through that wall shall be equipped with a self-closing and self-latching device with the release mechanism located a minimum of 54 inches above the door threshold. Swinging doors shall open away from the pool area.

10. Where an above-ground or on-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 or steps, then the ladder or steps shall be surrounded by a barrier which meets the requirements of section AG105.2, Items 1 through 9.

(Add) AG105.6 Temporary enclosure. A temporary enclosure shall be installed prior to the commencement of the installation of any in-ground swimming pool unless the permanent barrier specified in Section AG105.2 is in place prior to the commencement of the installation. The temporary enclosure shall be a minimum of 4 feet in height, shall have no openings that will allow passage of a 4-inch sphere and shall be equipped with a positive latching device on any openings.

SECTION AG 106 ENTRAPMENT PROTECTION FOR SWIMMING POOL AND SPA SUCTION OUTLETS

AG 106.1 General. Suction outlets shall be designed to produce circulation throughout the pool or spa. Single outlet systems, such as automatic vacuum cleaner systems, or other such multiple suction outlets whether isolated by valves or otherwise shall be protected against user entrapment.

AG 106.2 Suction fittings. All Pool and Spa suction outlets shall be protected with a cover that conforms with ANSI/ASME A112.19.8M, or a 12" x 12" drain grate or larger, or an approved channel drain system.

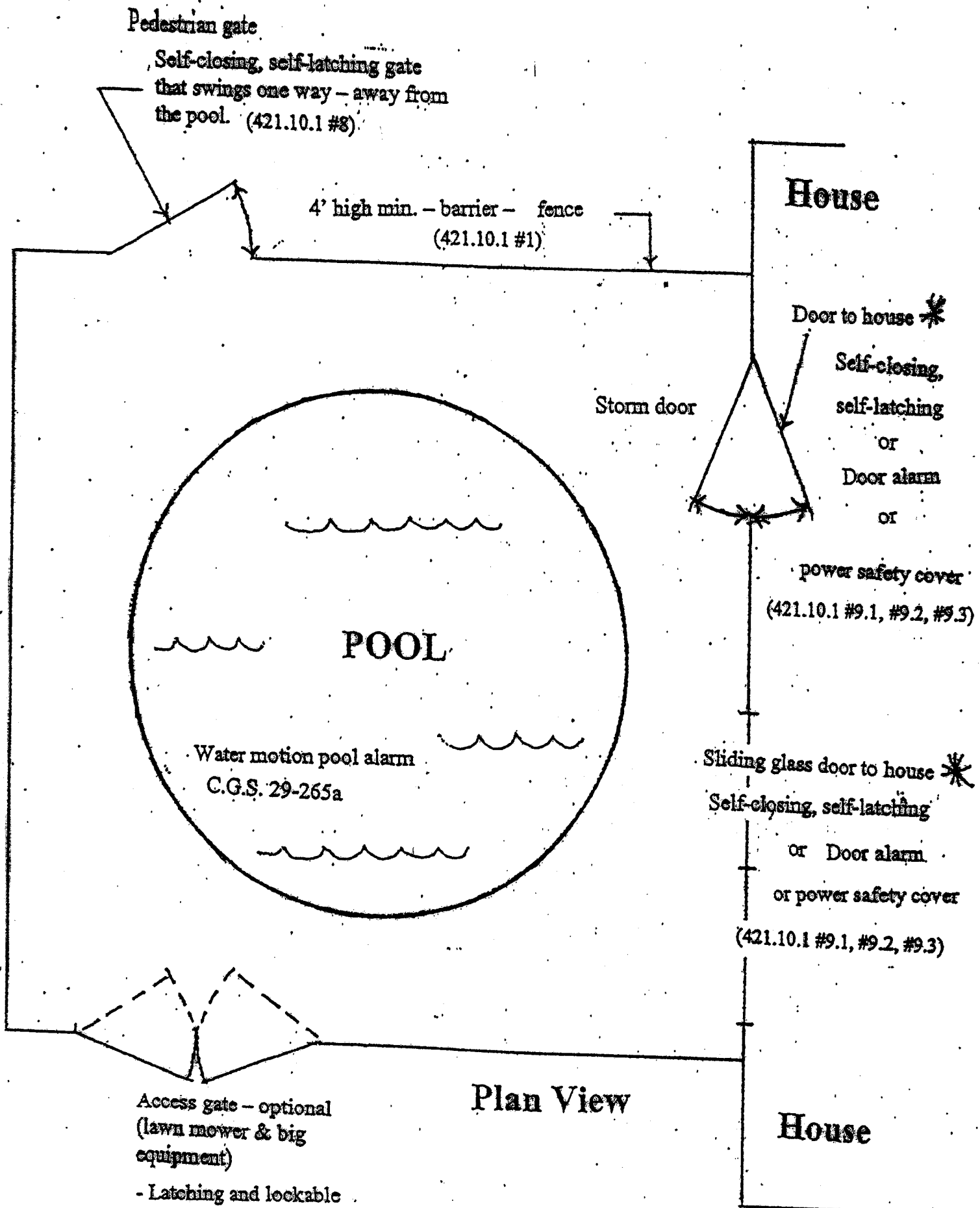
Exception: Surface skimmers

AG 106.3 Atmospheric vacuum relief system required. All pool and spa single or multiple outlet circulation systems shall be equipped with atmospheric vacuum relief should grate covers located therein become missing or broken. Such vacuum relief systems shall include at least one approved or engineered method of the type specified herein, as follows:

1. Safety vacuum release system conforming to ASME A112.19.17, or
2. An approved gravity drainage system.

AG 106.4 Dual drain separation. Single or multiple pump circulation systems shall be provided with a minimum of two (2) suction outlets of the approved type. A minimum horizontal or vertical distance of three (3) feet shall separate such outlets. These suction outlets shall be piped so that water is drawn through them simultaneously through a vacuum relief protected line to the pump or pumps.

AG 106.5 Pool cleaner fittings. Where provided, vacuum or pressure cleaner fitting (s) shall be located in an accessible position(s) at least (6) inches and not greater than twelve (12) inches below the minimum operational water level or as an attachment to the skimmers(s).



Pedestrian gate

Self-closing, self-latching gate
that swings one way - away from
the pool. (421.10.1 #8)

4' high min. - barrier - fence
(421.10.1 #1)

House

Door to house *

Self-closing,
self-latching
or
Door alarm
or

Storm door

power safety cover
(421.10.1 #9.1, #9.2, #9.3)

POOL

Water motion pool alarm
C.G.S. 29-265a

Sliding glass door to house *

Self-closing, self-latching
or Door alarm
or power safety cover

(421.10.1 #9.1, #9.2, #9.3)

Access gate - optional
(lawn mower & big
equipment)

- Latching and lockable

(421.10.1 #8)

Plan View

House

COMMENTARY GRAPHICS

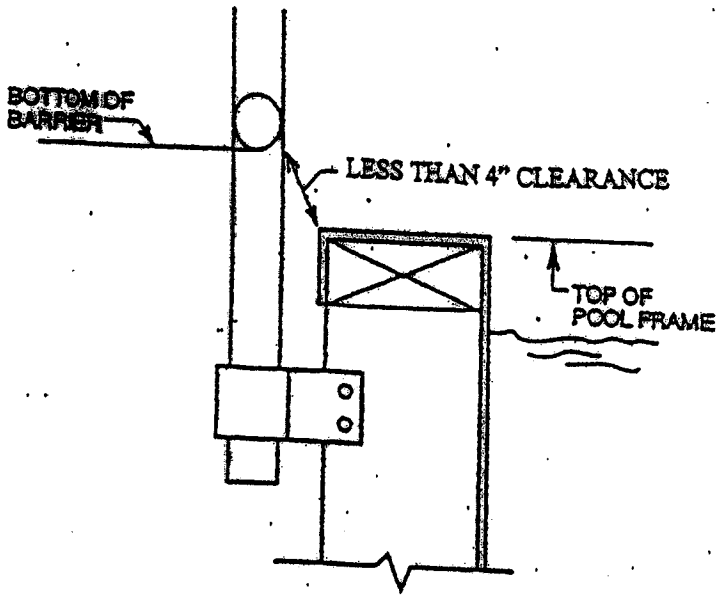


Figure 421.10.1(1)
OPENING LIMITATIONS

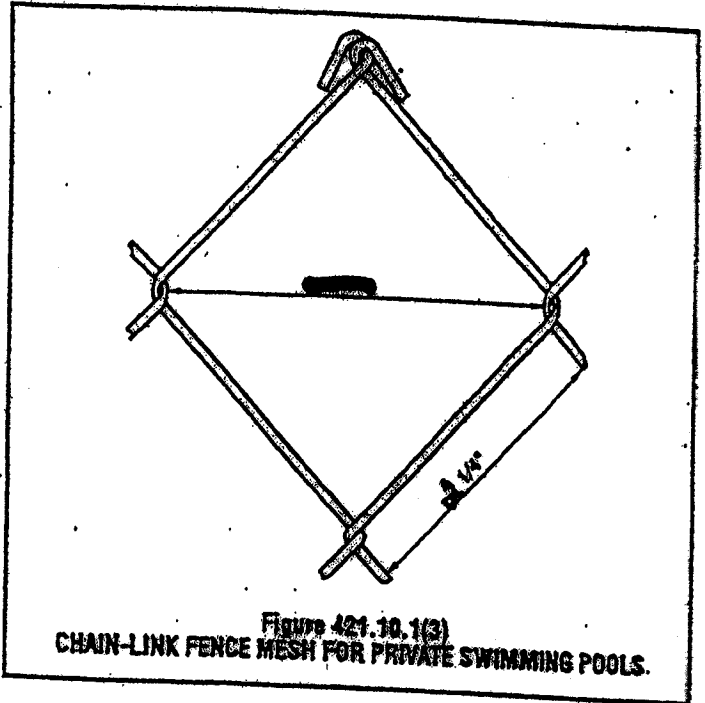
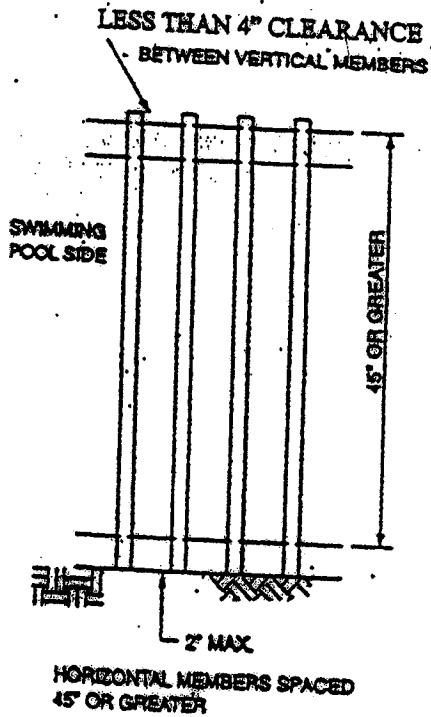
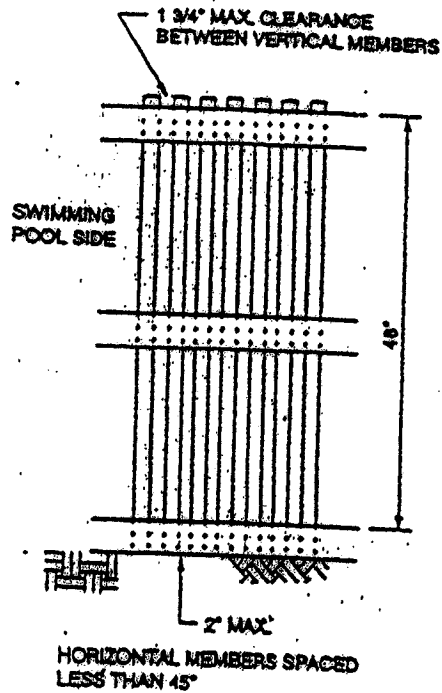


Figure 421.10.1(3)
CHAIN-LINK FENCE MESH FOR PRIVATE SWIMMING POOLS.



HORIZONTAL MEMBERS
ARE ON THE POOL SIDE



HORIZONTAL MEMBERS
ARE ON THE POOL SIDE

Figure 421.10.1(2)
PRIVATE SWIMMING POOL BARRIER CONSTRUCTION



FRANK AUER
ASSISTANT ZONING INSPECTOR

TOWN OF NEW CANAAN
TOWN HALL, 77 MAIN STREET
NEW CANAAN, CONNECTICUT 06840

TEL: (203) 594-3043
FAX: (203) 594-3127

Pool Fence Survey Requirement

All as-built pool surveys that are required by Planning & Zoning must show the location of the pool fence, in addition to all other required information. A Certificate of Compliance will not be issued without the required information.

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As owner and/or contractor installing a pool at the property located at _____ I hear by acknowledge the following:

I have received the booklet entitled, "Swimming Pool, Spa, and Hot Tub Requirements,"

- o (Code Change Effective 9/1/04)
- o From the TOWN OF NEW CANAAN Building Department.

I acknowledge that the requirements contained in the booklet are part of Connecticut State Building Code.

The Swimming Pool, Pool & Spa, or Hot Tub to be installed on my property will comply with all pertinent Building Code requirements as contained in the booklet.

The pertinent Building Code requirements contained in the booklet will be completed prior to the final inspection and issuance of the Certificate of Occupancy.

OWNER'S
SIGNATURE _____ **Date** _____

Owner's Name (printed or typed)

Subscribed and sworn to before me this _____ day of _____, 200__.

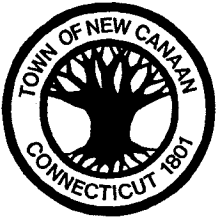
Signature of Notary Public _____

POOL CONTRACTOR'S
SIGNATURE _____ **Date** _____

Pool Contractor Name (printed or typed)

Subscribed and sworn to before me this _____ day of _____, 200__.

Signature of Notary Public _____



P & Z Bond # _____

TOWN OF NEW CANAAN
Planning & Zoning Department

PERFORMANCE BOND INFORMATION SHEET

NOTE: Performance bond will be released by Certified Mail usually within two (2) weeks upon receipt of a Certificate of Compliance and/or As-Built Survey, as determined by Planning & Zoning Staff.

BOND POSTED BY:

Owner: _____

Address: _____

Town/City: _____ Zip: _____

Phone/Email: **PHONE:** _____ **EMAIL:** _____

BANK: _____ **CHECK #:** _____ **AMOUNT:** _____

FILING DATE: _____

Social Security #: _____

OR

TIN #: _____

BOND TYPE:

- Pool
- Tennis
- Paddle Tennis
- Other: _____

NOTES: PER ZONING REGULATIONS EFFECTIVE 06/16/07, OWNER REQUIRED TO POST BOND \$5,000 BOND (CASHIER'S CHECK).

***** NOTE: Bond will only be released to above owner posting bond *****

PLANNING & ZONING AUTHORIZATION:

(Signed) _____ Date: _____

Finance Department: Check No. _____ Date Issued: _____