



TOWNSHIP OF NORTHAMPTON
55 Township Road
Richboro, PA 18954
Zoning/Building/Code Enforcement Department
Telephone #: 215-355-3883
Fax #: 215-357-3650

INGROUND POOL PERMIT APPLICATION CHECKLIST

- Swimming pool projects under 2,000 square feet of disturbance are exempt from Bucks County Conservation District Erosion and Sediment review. **Prior to permit submission, you should consult with your pool company and/or engineer to determine if this is required for your project. *If required, please apply as soon as possible directly to the Bucks County Conservation District in order to prevent potential delays in the permitting process.**
- Four (4) copies of a topographical sealed survey must be submitted with all in-ground pool permit applications. The survey must include existing and proposed grades in addition to the following: pool (size and location) along with all associated decks, walkways, etc. (including construction materials and methods), house and accessory structure locations, setbacks, easements, power lines, building and impervious surface coverage, and fence/gate(s) locations.
- Three (3) copies of architectural pool details
- Three (3) copies of architectural barrier details as follows:
 1. fence detail sheet showing an elevation drawing of the barrier with all specifications indicating code compliance;
 2. gate detail sheet showing an elevation drawing of the gate indicating the type and location of self-latching, self-closing devices and all specifications indicating code compliance; and
 3. pool door alarm (if applicable) locations and specifications indicating code compliance.
- Permit applications as follows:
 1. Building Permit Application
 2. Electrical Permit Application
 3. Mechanical Permit Application, for heater, if applicable.
- Consultant Fee Agreement, with initial payment of \$500.00 (see following page)
- Pool Alarm Acknowledgement Statement, signed by homeowners (see following page)
- Permit fee (to be calculated at time of submission)

Revised: 2-22-2023

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General Requirements

1. A permit is required for construction of all pools over 12 (twelve) inches in height or depth.
2. All portions of the pool area and equipment must be at least 10 (ten) feet from the side and rear property lines.
3. Pool area may not be located in an easement.
4. Pool fencing must be located at least 20 (twenty) inches from the water's edge.
5. All electrical and mechanical work connected with the pool must comply with the IRC 2015 and the International Swimming Pool and Spa Code, 2015 addition.

In-Ground Pool Barriers

1. The minimum barrier height is 48 inches. The maximum barrier height is 72 inches. These measurements should be taken from the outside of the barrier.
2. The distance under the barrier to the ground is limited to two (2) inches maximum.
3. Openings in the barrier shall not allow the passage of a four (4) inch sphere.
4. Solid barriers (walls solid type wood fences, etc.) shall not have any indentations or protrusions except for normal tooled masonry joints or construction tolerances.
5. If a barrier with horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches, the horizontal members shall be on the pool side of the fence. Spacing between the vertical members shall not exceed $1\frac{3}{4}$ inches in width. Decorative cut-outs shall not exceed $1\frac{3}{4}$ inches in width (picket fences, aluminum fences with vertical balusters, etc.).
6. If a barrier with 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 4 inches maximum. Decorative cut-outs shall not exceed $1\frac{3}{4}$ inches in width.
7. Chain link fence mesh is limited to $1\frac{3}{4}$ inch square. Larger mesh shall be provided with slats to reduce the openings to $1\frac{3}{4}$ inches maximum.
8. If a barrier is constructed with diagonal members, such as lattice fence, the maximum opening formed by the diagonal members shall not be more than $1\frac{3}{4}$ inches.
9. Fences or gates with diagonal cross-bracing (rack bracing) will require the spacing of vertical members no more than $1\frac{3}{4}$ inches apart.
10. Split rail fences with wire are not approved as a pool barrier.

Gates, Doors, and Windows

1. A locking device is required on all gates.
2. Gates which are used for access to the pool area (adjacent to driveways, leading from the house to the pool area, gates facing the house from which entrance is most likely gained, etc.) shall open outwards away from the pool and shall have self-closing and self-latching devices. Other gates shall have a self-latching device.
3. The release mechanism for the self-latching devices shall be a minimum of 54 inches from the bottom of the gate.
4. If the release mechanism is less than 54 inches from the bottom of the gate, the release mechanism shall be located on the pool side of the gate a minimum of three (3) inches from the top of the gate, and the gate and barrier shall have an opening no greater than ½ inch within 18 inches of the release mechanism.
5. Where a wall of the house or other building serves as part of the barrier and contains a door and/or windows with sills less than 48 inches above the inside floor which provide direct access to the pool, an alarm shall be connected to the door(s) or the screen door(s), and window(s) that produces an audible warning when opened. The alarm shall be labeled and listed as a water hazard entrance alarm in accordance with UL 2017. The alarm shall be distinctive from other household sounds (smoke detectors, door bells, etc.). The alarm shall automatically reset under all conditions. The alarm shall be equipped with a manual deactivation device to temporarily deactivate the alarm for a single opening from either direction (touchpads or switches). Such deactivation shall last for no more than 15 seconds. All touchpads or switches shall be installed a minimum of 54 inches above the inside finished floor.

For windows in a house that requires alarms, a statement signed by the homeowners is required (See "Pool Alarm Acknowledgement Statement").

OR

6. Doors with direct access to the pool through that wall shall be equipped with a self-closing and self-latching device with a release mechanism of 56 inches minimum above the inside finished floor;

OR

7. The pool shall be equipped with a power safety cover having specifications complying with ASTM F 1346 and is labeled and listed.

Above-Ground Pool Barriers

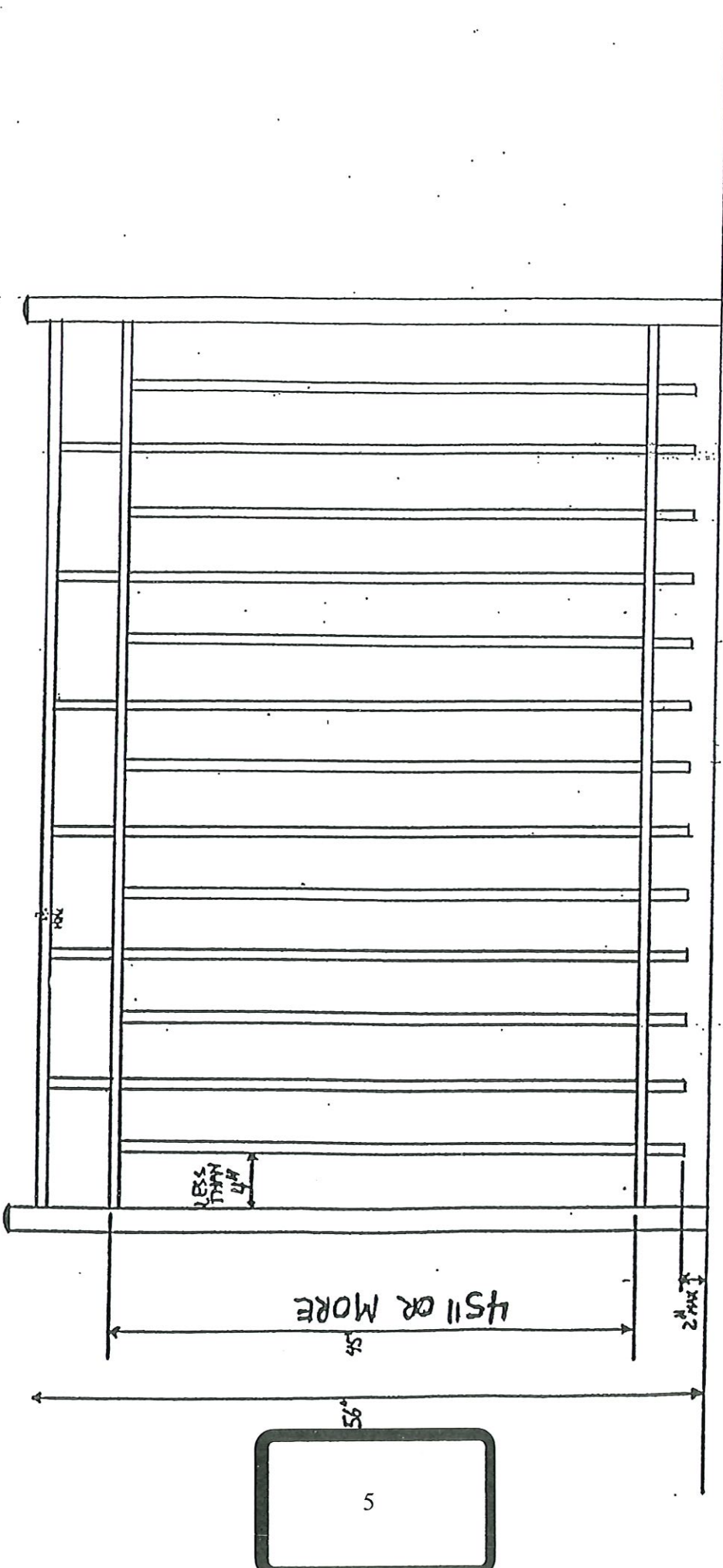
1. Specific requirements for barrier construction shall be the same for inground pool barriers.
2. The 48-inch high barrier is measured from finished ground level to the top of the pool or to the top of the barrier mounted to the pool structure. The barrier must comply with page 2, and pages 25 through 27, as applicable, of this handout.
3. A barrier mounted to the top of the pool structure may have an opening between the top of the pool frame and the bottom of the barrier limited to the passage of a 4-inch sphere.
4. If the above-ground pool has a catwalk around the top of the pool, there shall be a 36-inch high guardrail around the top of the pool complying with Section 1021.
5. Ladders and steps, whether fixed or removable, shall be surrounded by a barrier which meets the barrier requirements, or that is capable of being secured, removed or locked to prevent access.

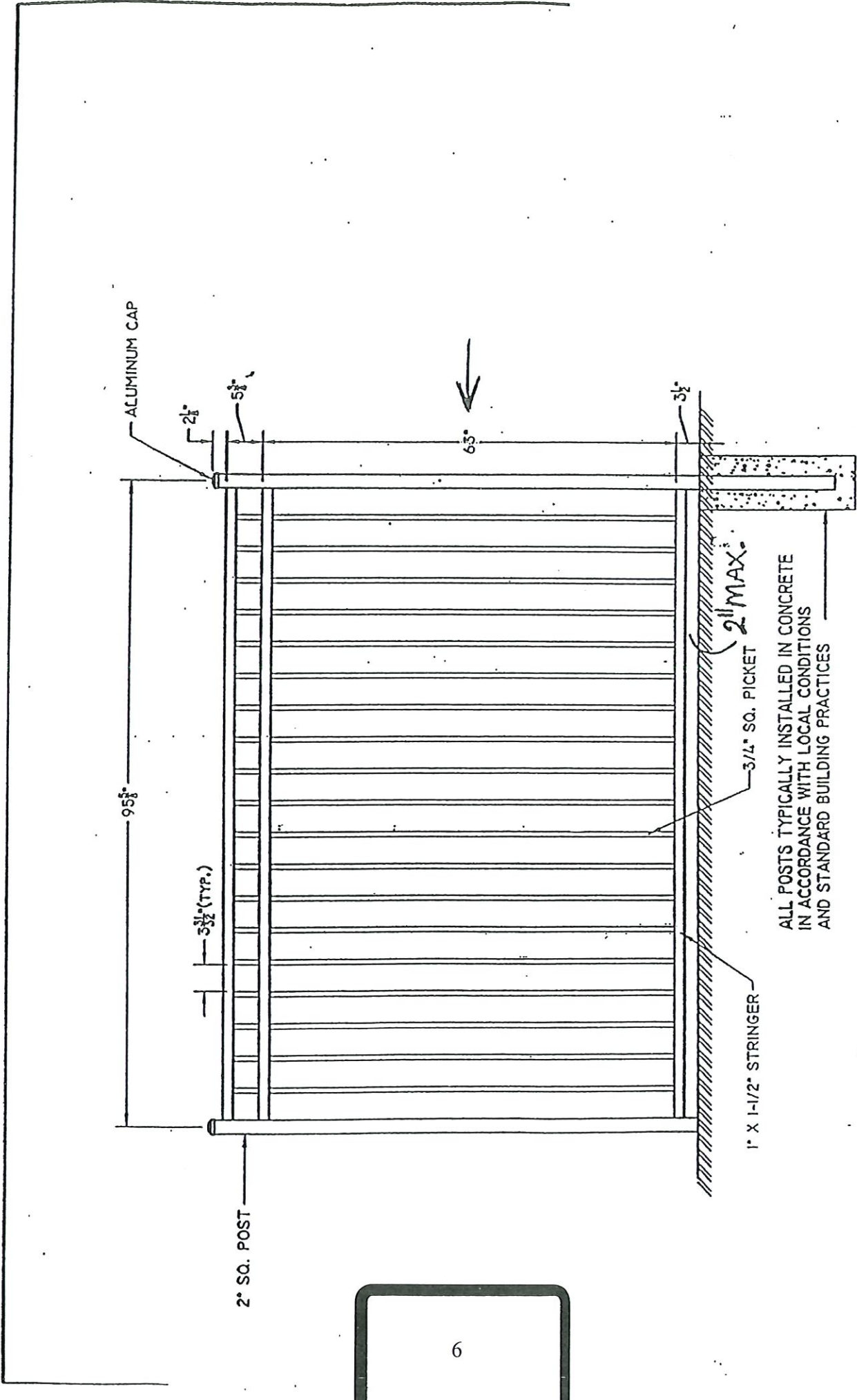
Spas

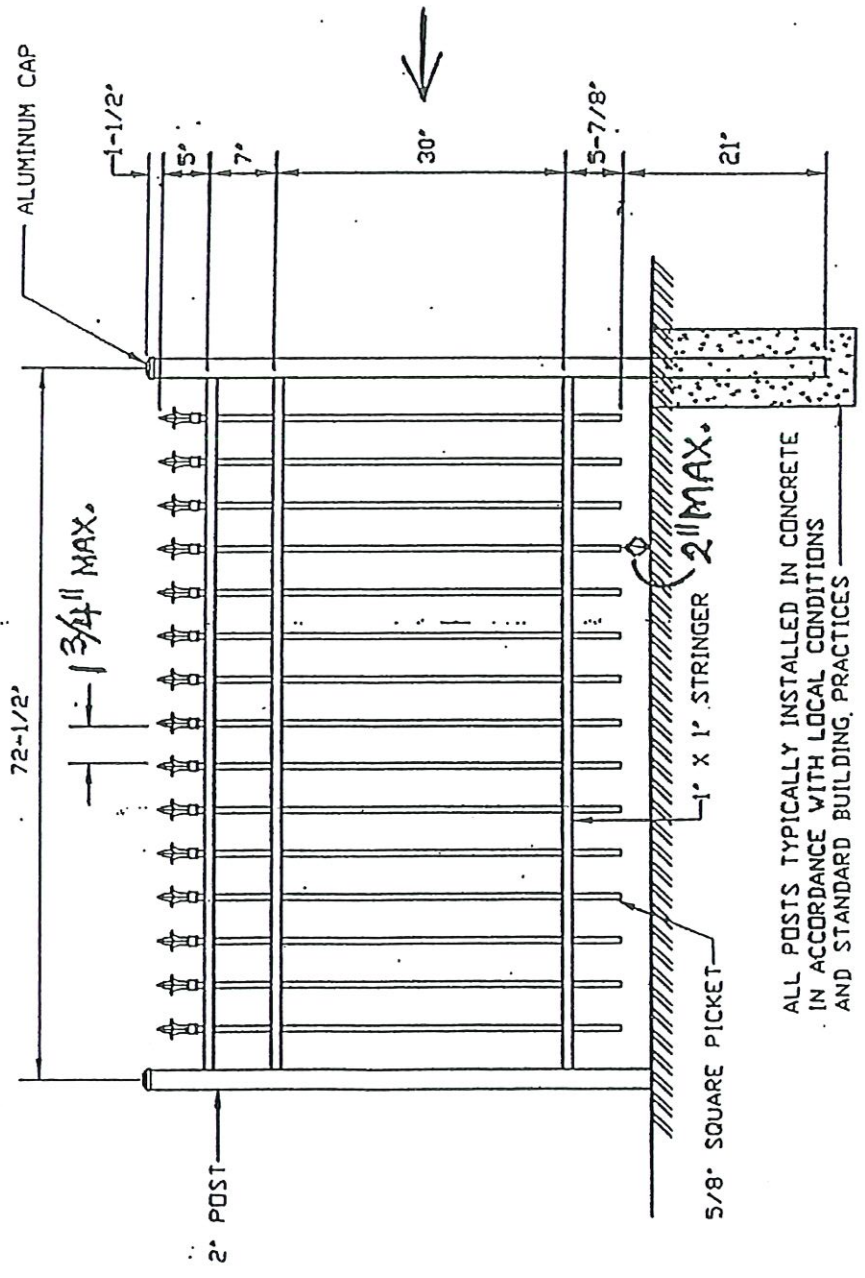
A spa/hot tub is exempt from the barrier requirements, provided it has an approved labeled safety cover meeting ASTM F 1346. Please submit proof of approved safety cover with your permit application, along with a site plan showing the location of the spa/hot tub and the distance to windows and doors.

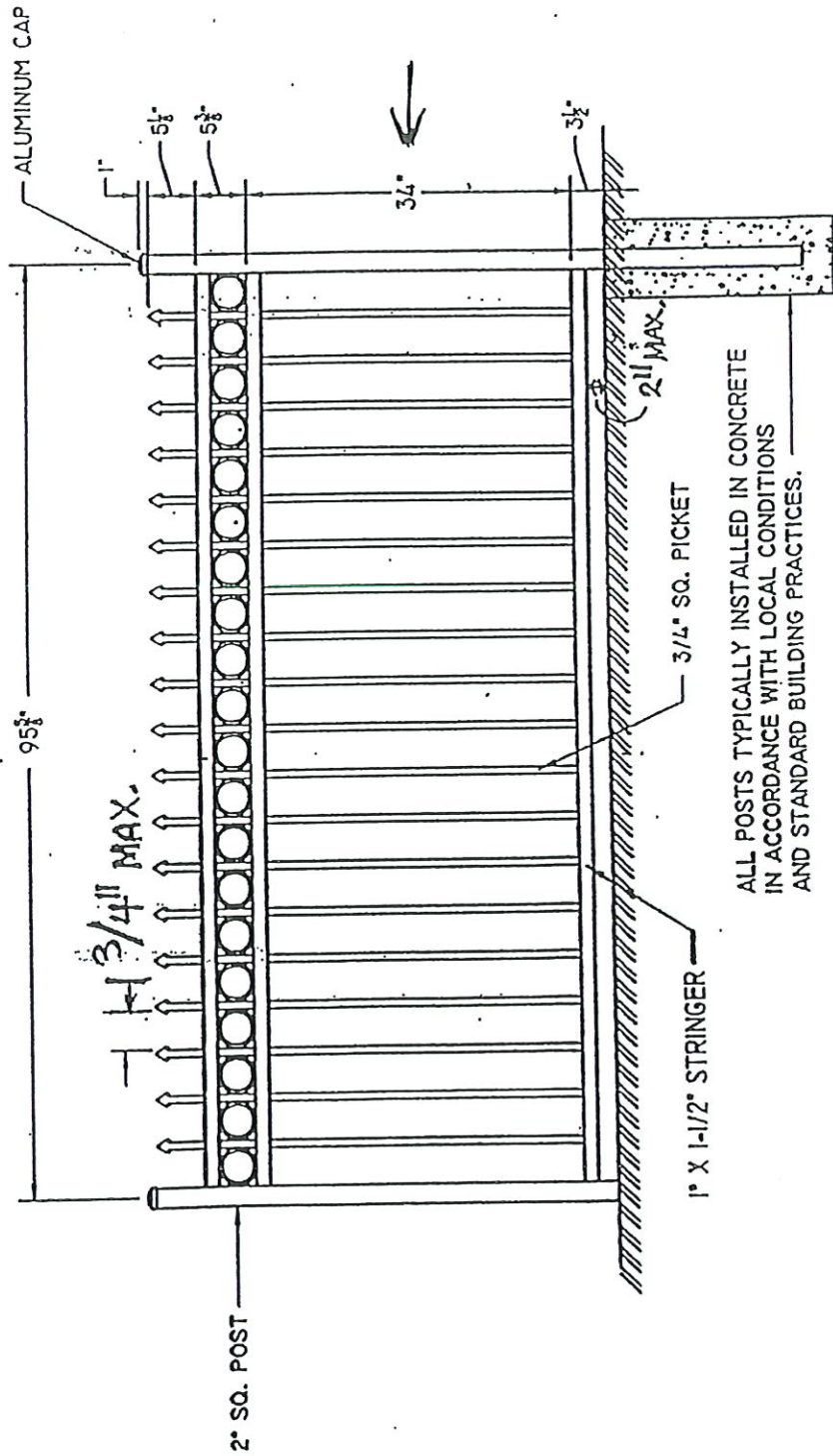
NOTE: The building inspector shall make the final determination in determining pool barrier fence compliance.

FENCE DETAIL









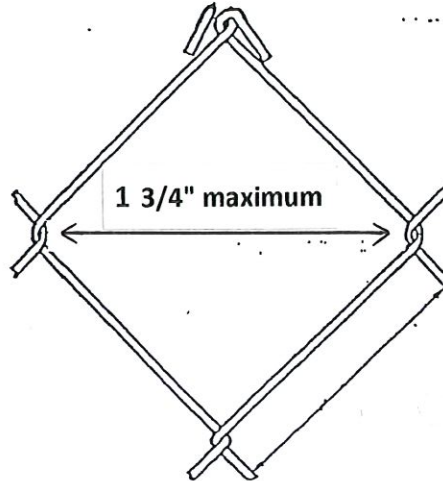
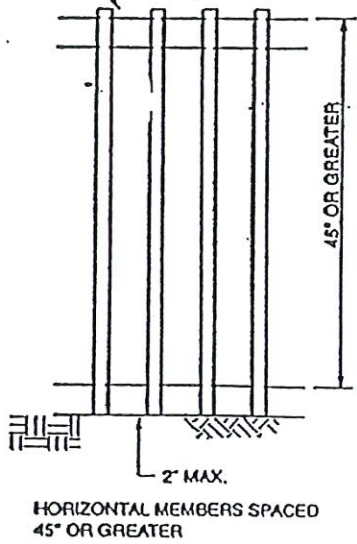
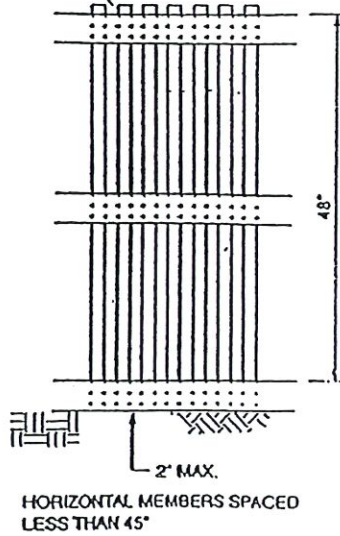


Figure 421.10.1(3)
CHAIN-LINK FENCE MESH FOR PRIVATE SWIMMING POOLS

Less than 4" clearance
Between vertical members



1 3/4" MAX. CLEARANCE
BETWEEN VERTICAL MEMBERS



PRIVATE SWIMMING POOL BARRIER CONSTRUCTION

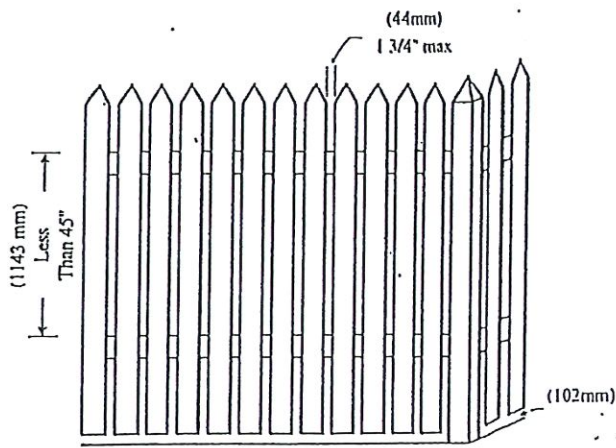


FIG. 1 IF HORIZONTAL MEMBERS ARE LESS THAN 45" (1143mm) APART. THE SPACE BETWEEN VERTICAL MEMBERS SHALL NOT EXCEED 1-3/4" (44mm).

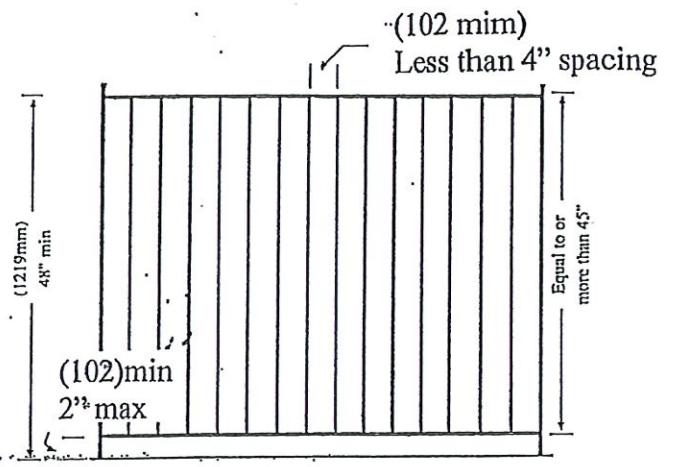


FIG. 2 IF HORIZONTAL MEMBERS ARE EQUAL TO OR MORE THAN 48" (1219mm) APART. THE SPACE BETWEEN VERTICAL MEMBERS SHALL NOT EXCEED 4" (102mm).

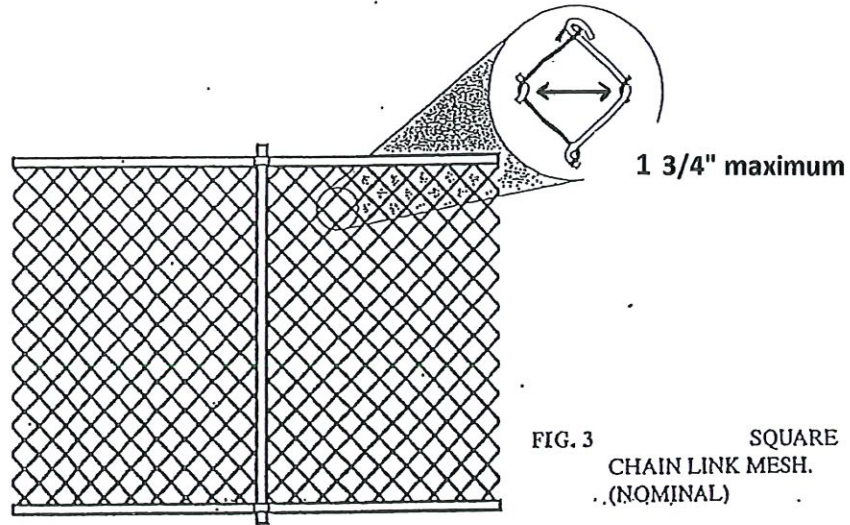
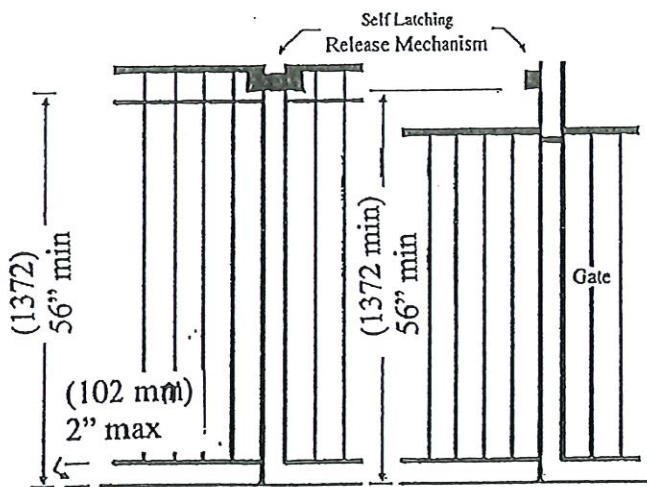
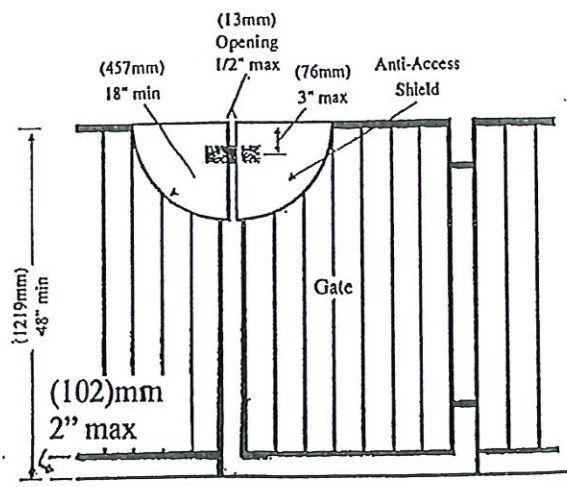


FIG. 3 SQUARE CHAIN LINK MESH. (NOMINAL)

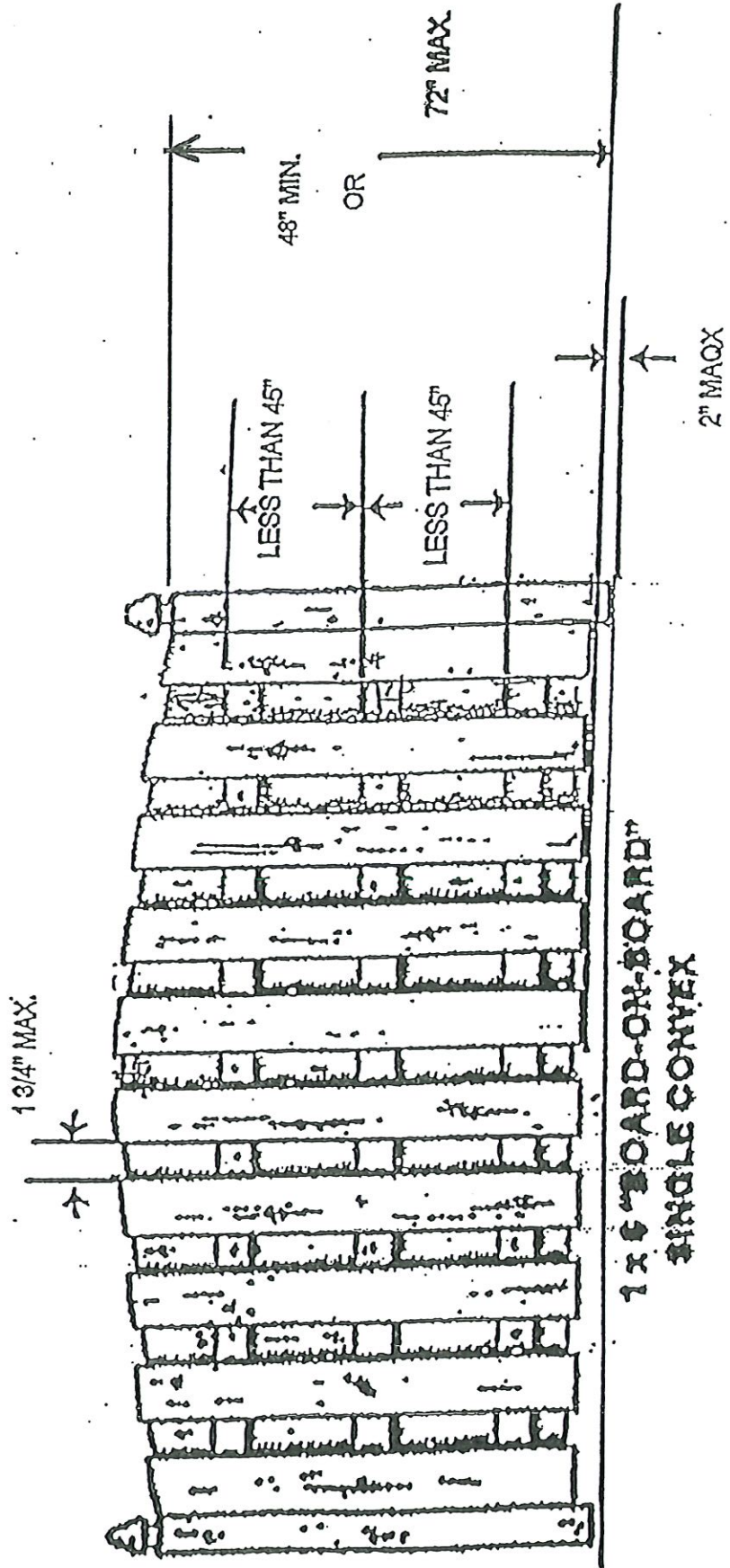


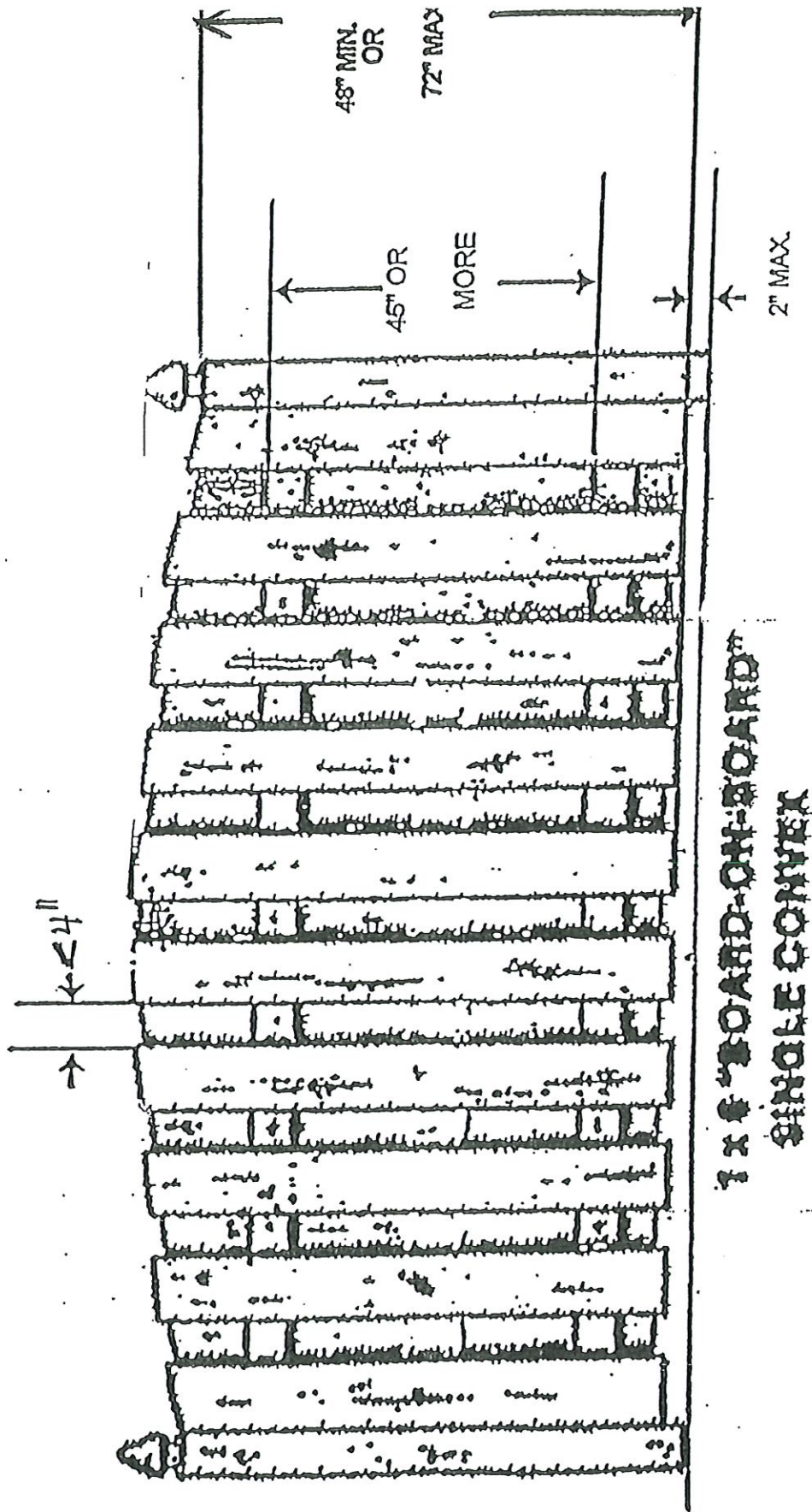
RELEASE MECHANISM LOCATED AT 54" (1372mm) OR HIGHER FROM THE BOTTOM OF THE GATE.



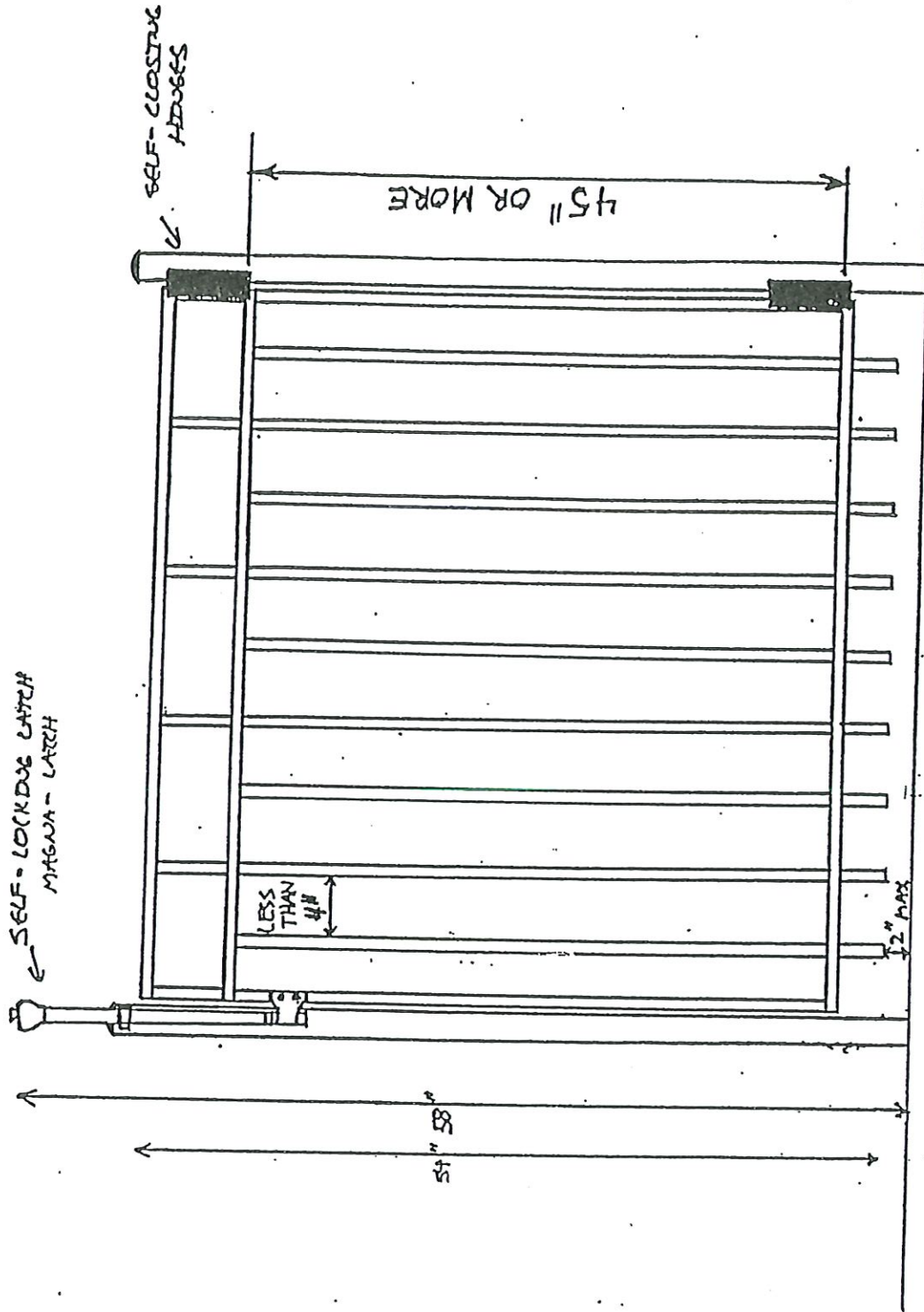
RELEASE MECHANISM LOCATED LESS THAN 54" (1372mm) FROM THE BOTTOM OF THE GATE.

LATCH RELEASE MECHANISM.





GATE DETAIL



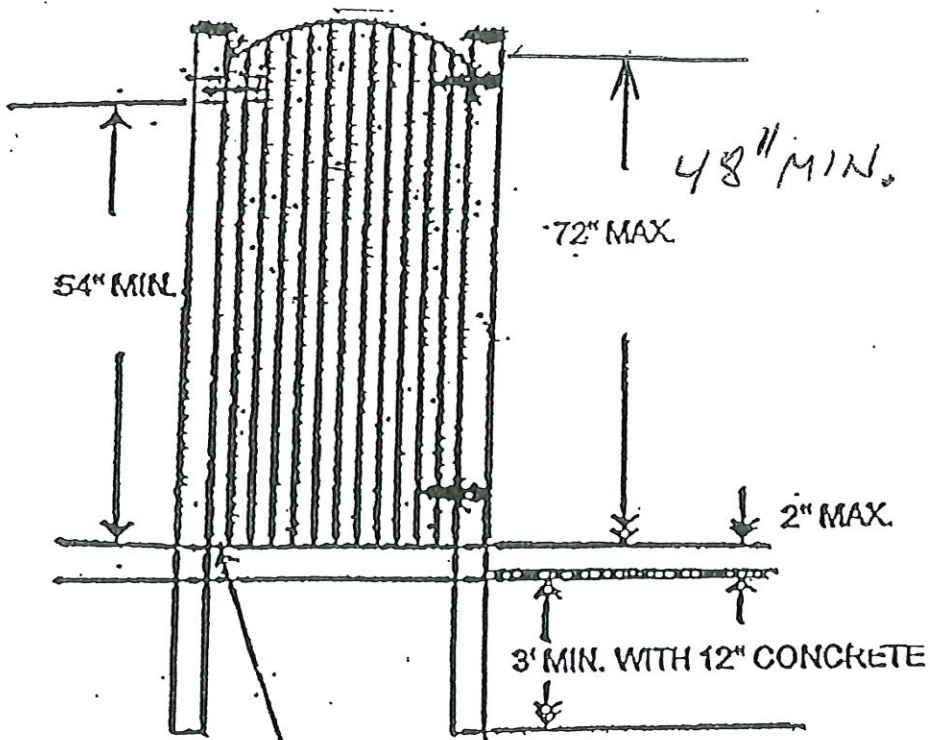
GATES-STOCKADE SOLID

SELF CLOSING HINGES

OR SPRING ON INSIDE

ALL CROSS BUCKS INSIDE FACING POOL

GRAVITY SELF
CLOSING DEVICE



NOTE: THERE IS A CANE DROP BAR USED IN THE
MIDDLE OF A DOUBLE GATE

GATES-STOCKADE SOLID

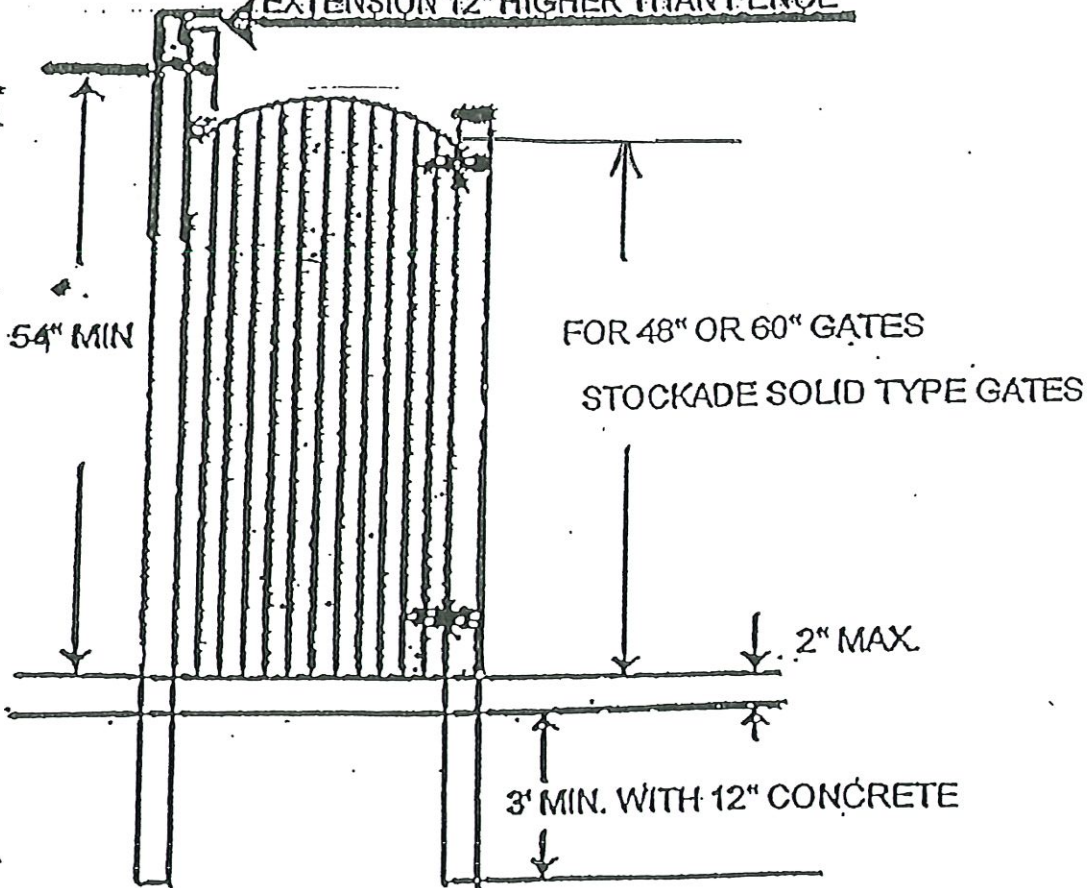
SELF CLOSING HINGES

OR SPRING ON INSIDE

ALL CROSS BUCKS INSIDE FACING POOL

GRAVITY LATCH

EXTENSION 12" HIGHER THAN FENCE



Use the safest...

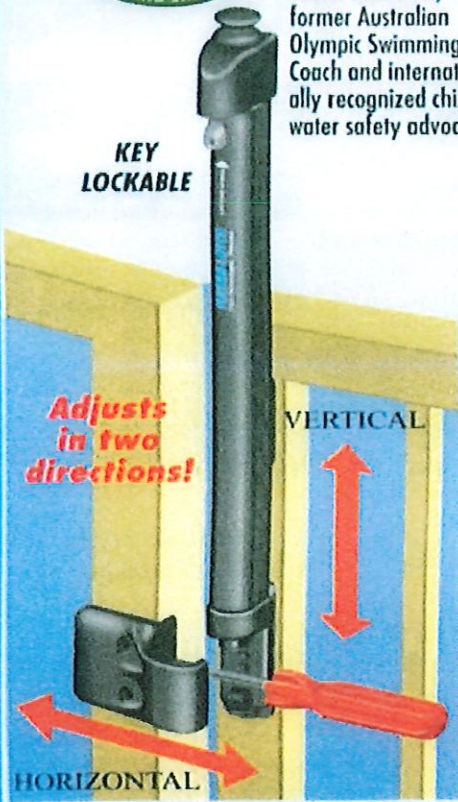
Series 2
MAGNA-LATCH®
 MAGNETIC SAFETY GATE LATCH



Endorsed by Laurie Lawrence, former Australian Olympic Swimming Coach and internationally recognized child water safety advocate.

- Magnetically triggered latching
- Key lockable safety (two models)
- Adjusts horizontally *and* vertically
- Patented "Lost Motion" Technology
- Quick and easy to install (now with convenient self-drilling screws)

KEY LOCKABLE



Adjusts in two directions!

VERTICAL

HORIZONTAL

Features

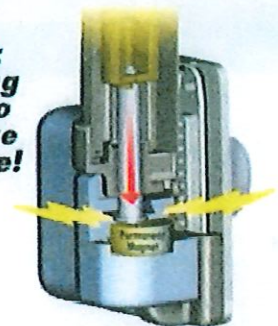
- Patented magnetic self-latching
- Exceeds international barrier/safety codes
- Quality molded polymers & stainless steel
- Key lockable (Top Pull & Vertical Pull)
- Quality Assurance ISO 9001 manufacturer
- Engineered for ease of installation
- Latches in the "locked" position
- Won't disengage from shaking & pulling
- Unprecedented adjustability
- Tested to 400,000 cycles

Benefits

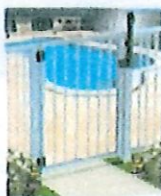
- No mechanical jamming during closure
- Unprecedented reliability & safety
- No rusting, binding or staining
- Added safety and peace-of-mind
- Lifetime Warranty
- Reduced installation time (costs)
- Exceptional safety & reliability
- Can't be forced open
- Easy to install and maintain
- Proven to last the test of time

Independently tested to meet Pool Barrier Safety Codes

Magnetic triggering means no resistance to closure!



Quality Endorsed Company
 ISO 9001



METAL GATE
 Top Pull model



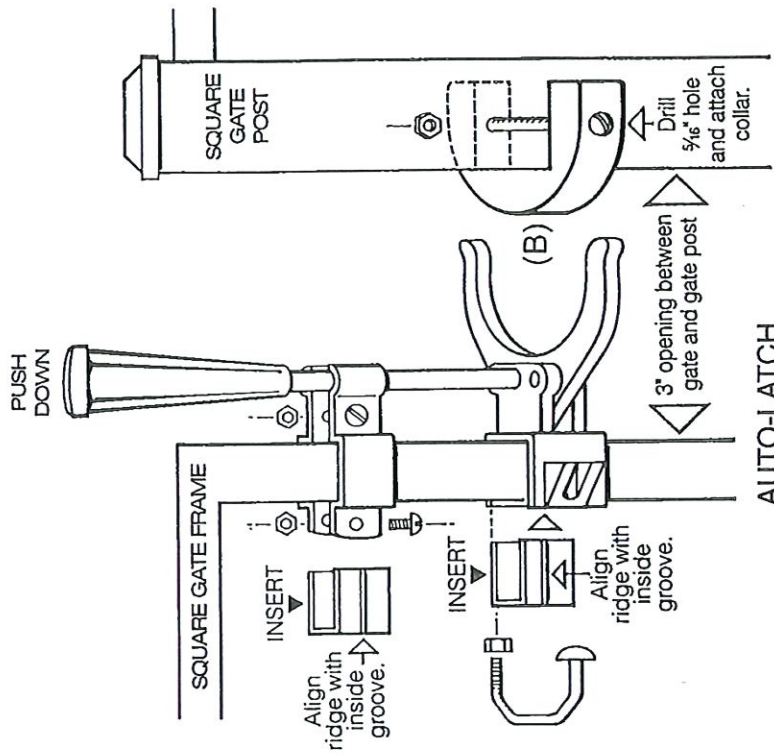
WOOD GATE
 Top Pull model



VINYL GATE
 Vertical Pull model



CHAINLINK GATE
 Top Pull model

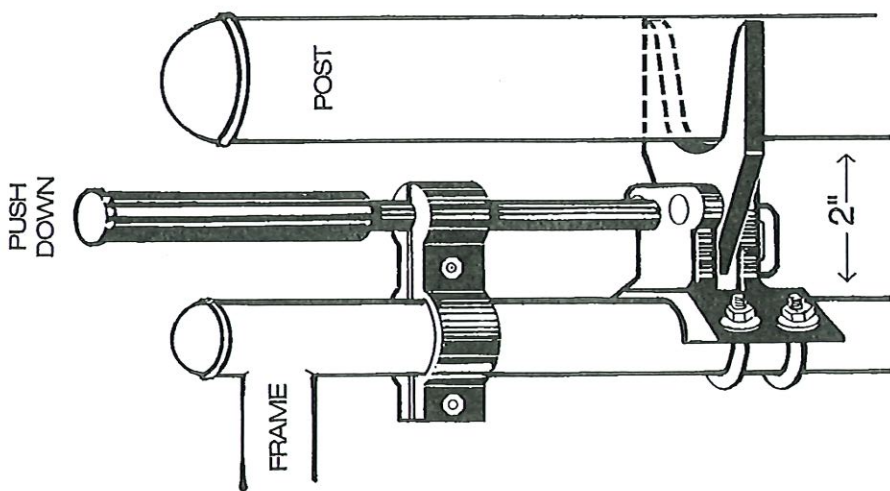


AUTO-LATCH
for ORNAMENTAL FENCE

—
SELF-LATCHING

—
**ALLOWS GATE
TO SWING
BOTH WAYS**

—
**CAN BE
PADLOCKED
FROM
EITHER SIDE**



AUTO-LATCH
for CHAIN LINK FENCE / GATES

LATCHES, PULLS AND HANDLES

C-13

23A - ADJUST-O-MATIC® GATE LATCHES / SIMILAR

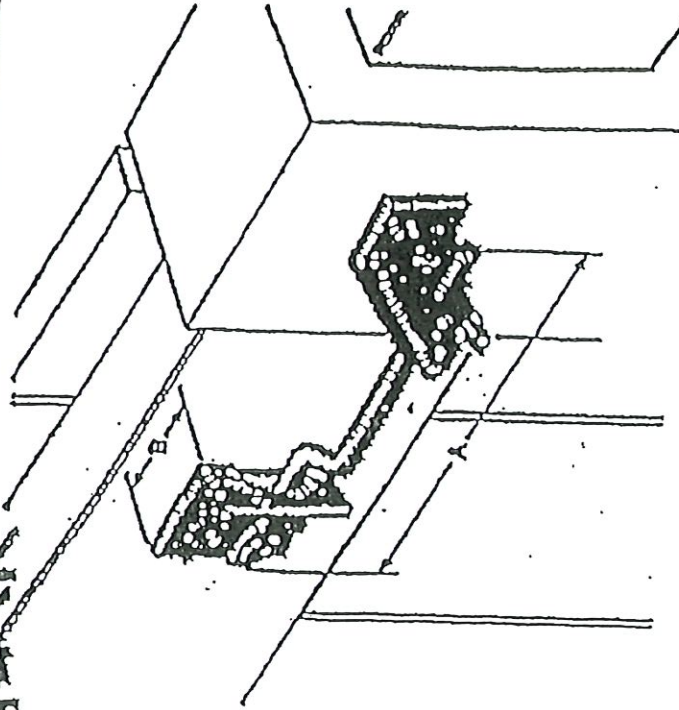
PACKAGING: V-Pac

MATERIAL(S): Hot-rolled steel case and strike; steel rod bar
FINISH(ES): Zinc plated finish or Satin Black. Triply-protected with zinc plate, black chrome dip and black baked enamel finish

USE: This latch is designed for flush stockade-type gates with spacing between post and gate. It also is suitable for fences, horse barns, cattle gates and other heavy-duty uses. Two pivot holes are provided for either right- or left-hand mounting.

FEATURE(S):

- Latches automatically.
- Floating bar compensates for sag and eliminates bar breakage.
- Can be padlocked.
- Hole punched in release lever is for rigging cord release from opposite side.



DIMENSION CHART		
W	2 1/2"	2 1/2"
H	2 1/2"	2 1/2"

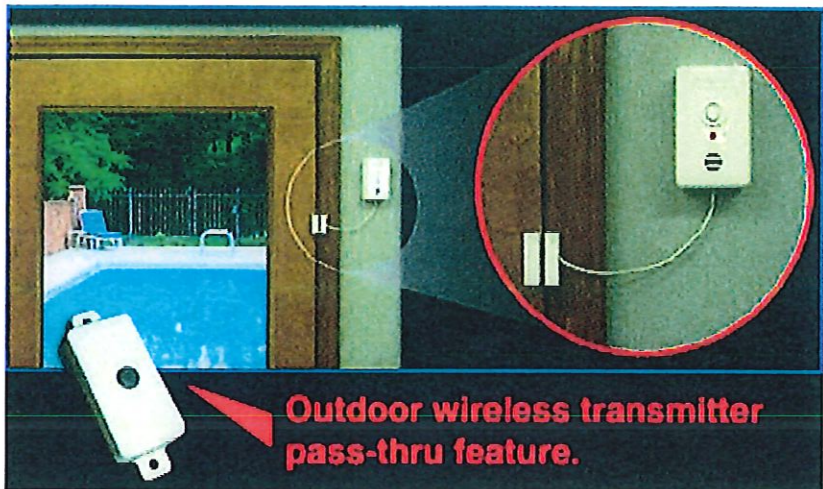
Part	Qty	Part	Qty	Part	Qty	Part	Qty
Zinc	5	1 1/2" Log 1/2" x 1 1/2"	5	Pivot Hole	1	1729A Corrodd	5
Satin Black	5	1 1/2" Log 1/2" x 1 1/2"	5	Pin	1	1729A Corrodd	5



FOR WOODEN FENCES STOCKADE, SHADOW BOX, AND PICKET STYLES



DOOR ALARM - Model DAPT

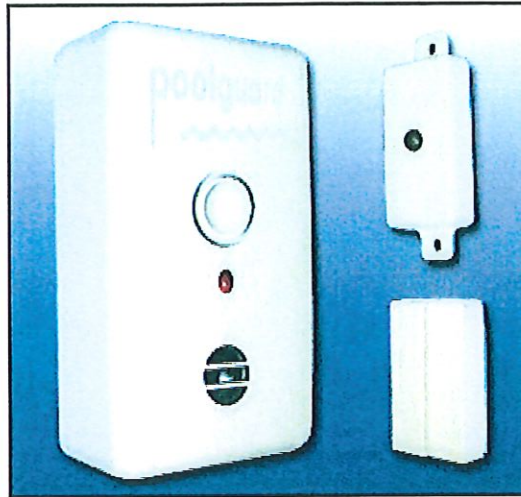


POOLGUARD/PBM INDUSTRIES, INC. has been manufacturing pool alarms, door alarms, and gate alarms since 1982. All Poolguard products are proudly Made in the USA. Poolguard Door Alarms comply with all building codes and are UL Listed under UL 2017. The majority of children that drown in pools go out the back door first and Poolguard's Door Alarm can help protect those doors.

- UL Listed to UL 2017
- Outdoor wireless transmitter pass-thru feature
- Simple To Operate
- Easy to Install
- Important safety alarm for doors
- Complies with barrier codes
- Low battery indicator
- Battery powered
- Automatic reset

POOLGUARD DOOR ALARM WITH WIRELESS FEATURE

1 Year Warranty
Complies with all building codes
Loud 85dB horn (at 10 feet)



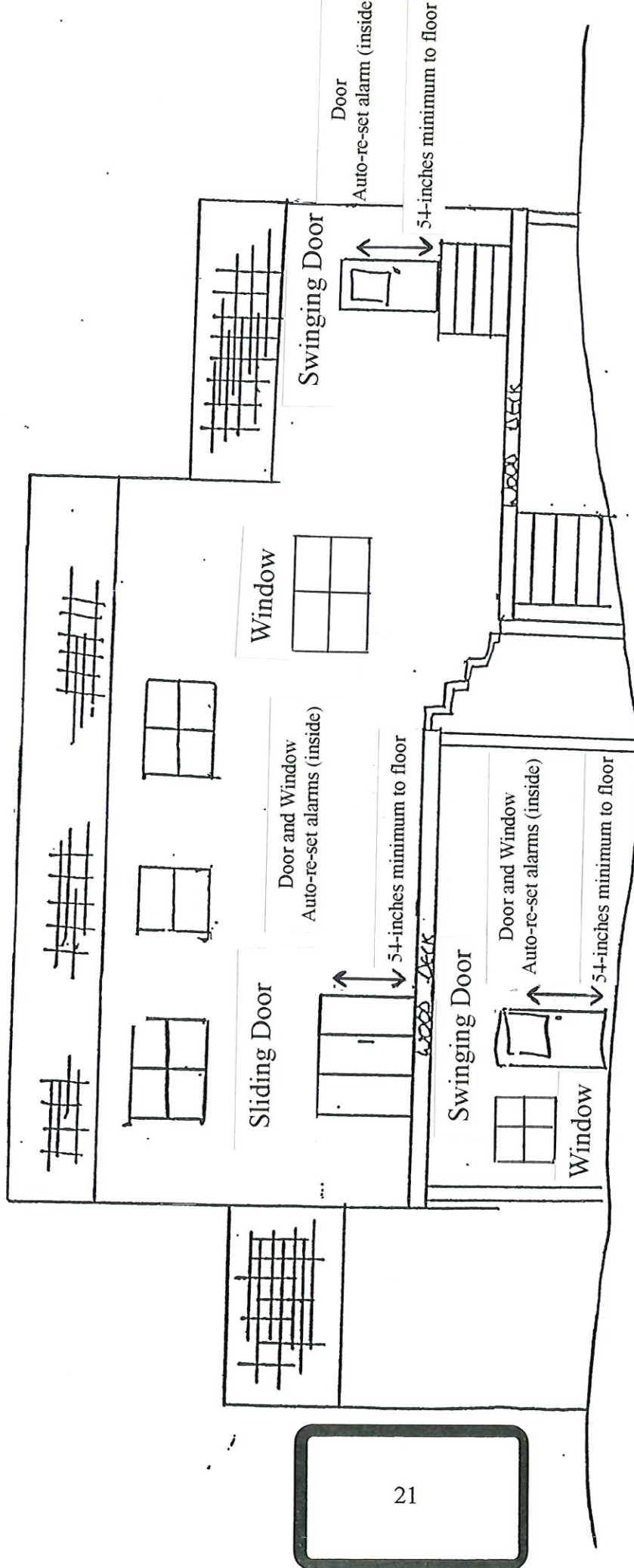
- The Door Alarm will sound immediately when a child opens the door, and will continue to sound if the door is left open. If a child goes through the door and closes it, the alarm will sound for 5 minutes and then automatically reset.
- Poolguard Door Alarm Model DAPT-WT is equipped with an Outdoor Wireless Transmitter that allows adults to enter the home from the outside without the alarm sounding and is easy to install.
- The Door Alarm is always on and will automatically reset under all conditions.
- Poolguard Door Alarm is equipped with an adult pass through feature that will allow adults to go through the door without the alarm sounding.
- Optional screen door kits can be purchased for the alarm, this kit allows you to get air through your screen door without the alarm sounding.
- Poolguard Door Alarm uses one 9-volt battery, (not included) with a battery life of approximately 6 months.
- The Door Alarm is equipped with a low battery indicator that will audibly alert you when your battery is getting low.
- Poolguard is the only door alarm that is UL listed under UL 2017 for water hazard entrance alarm equipment.

All Products Proudly

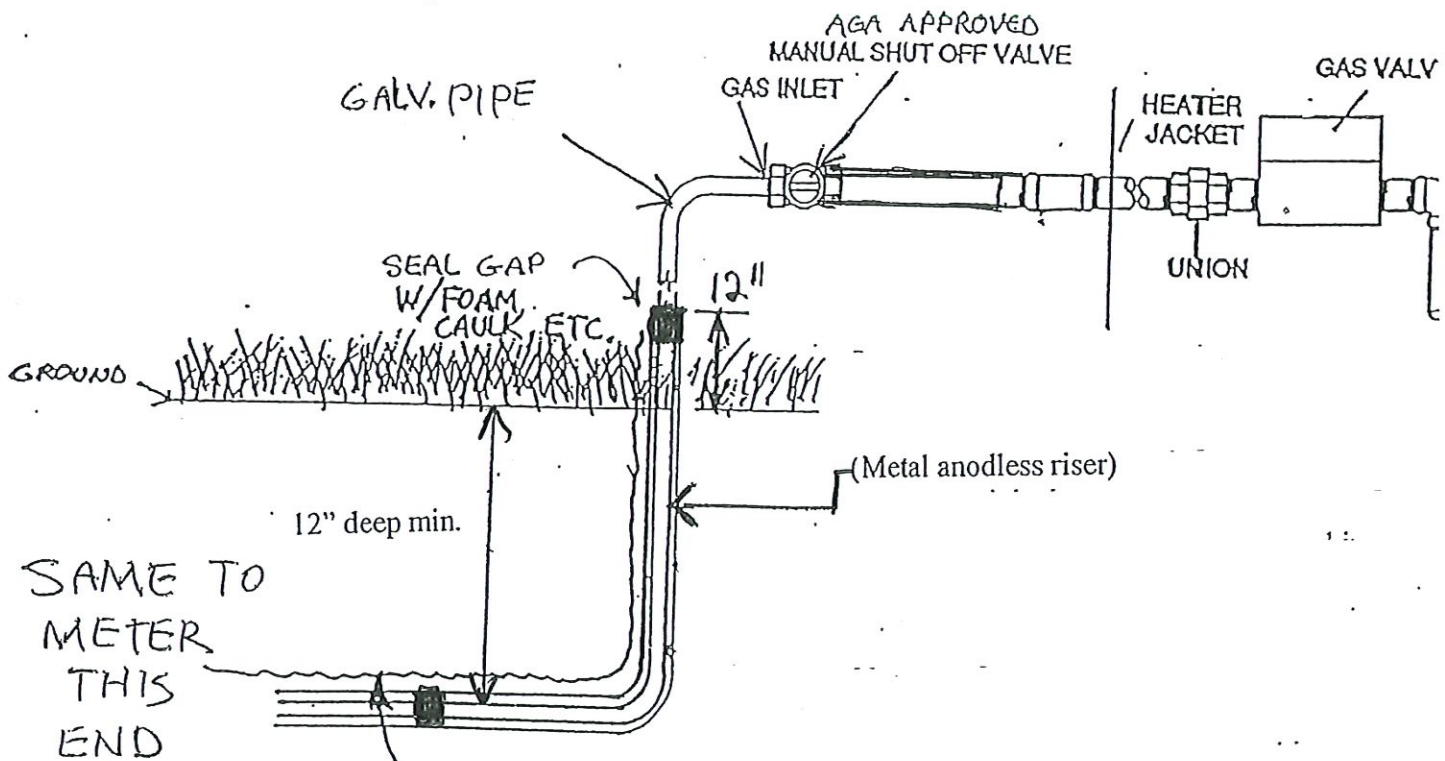
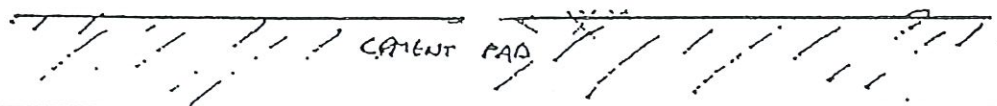
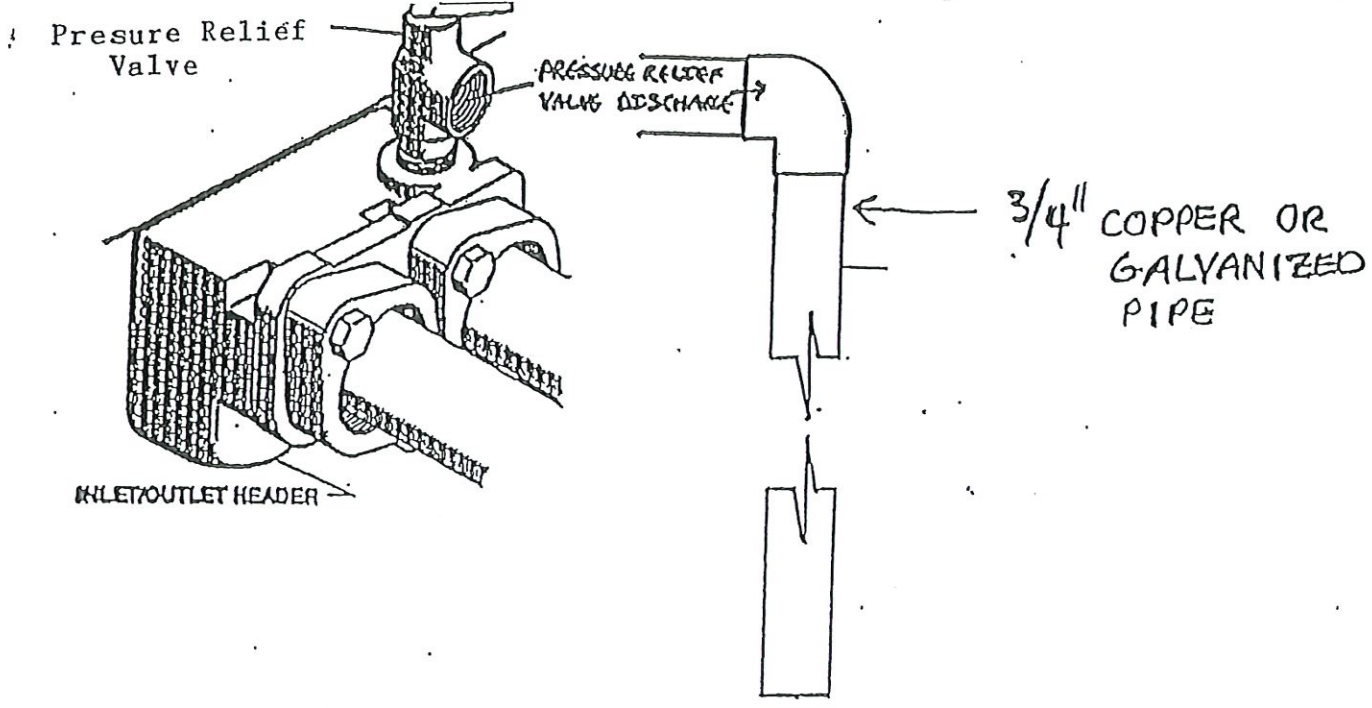


**CALL TOLL-FREE
800-242-7163**

Please provide a diagram, or picture, indicating that all doors and windows leading directly to the pool area are alarmed. See example below.



Alarms are to be listed and labeled to UL 2017. Submit cut sheet specifications.



Yellow tracer wire required, if plastic (gas tubing PE 2406), 12" out of ground at each end. LABELED FOR DIRECT BURIAL

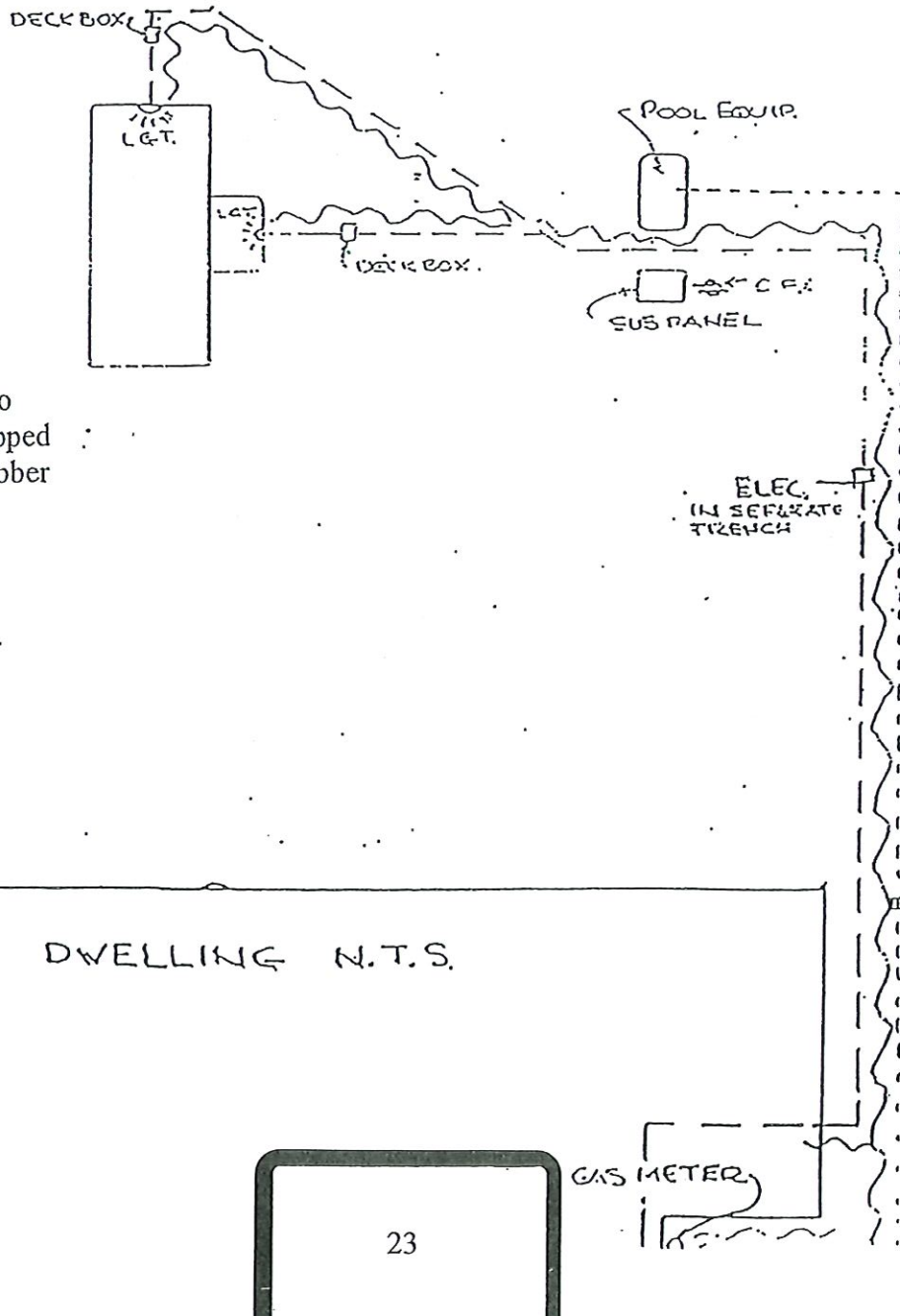
**STANDARD GAS AND ELECTRICAL DIAGRAM
N.T.S.**

ELECTRIC RUN PVC Conduit 3/4" Diameter
GAS LINE SEE SKETCH

TRENCH Minimum Depth 24" inches

ELECTRIC SPECIFICATIONS

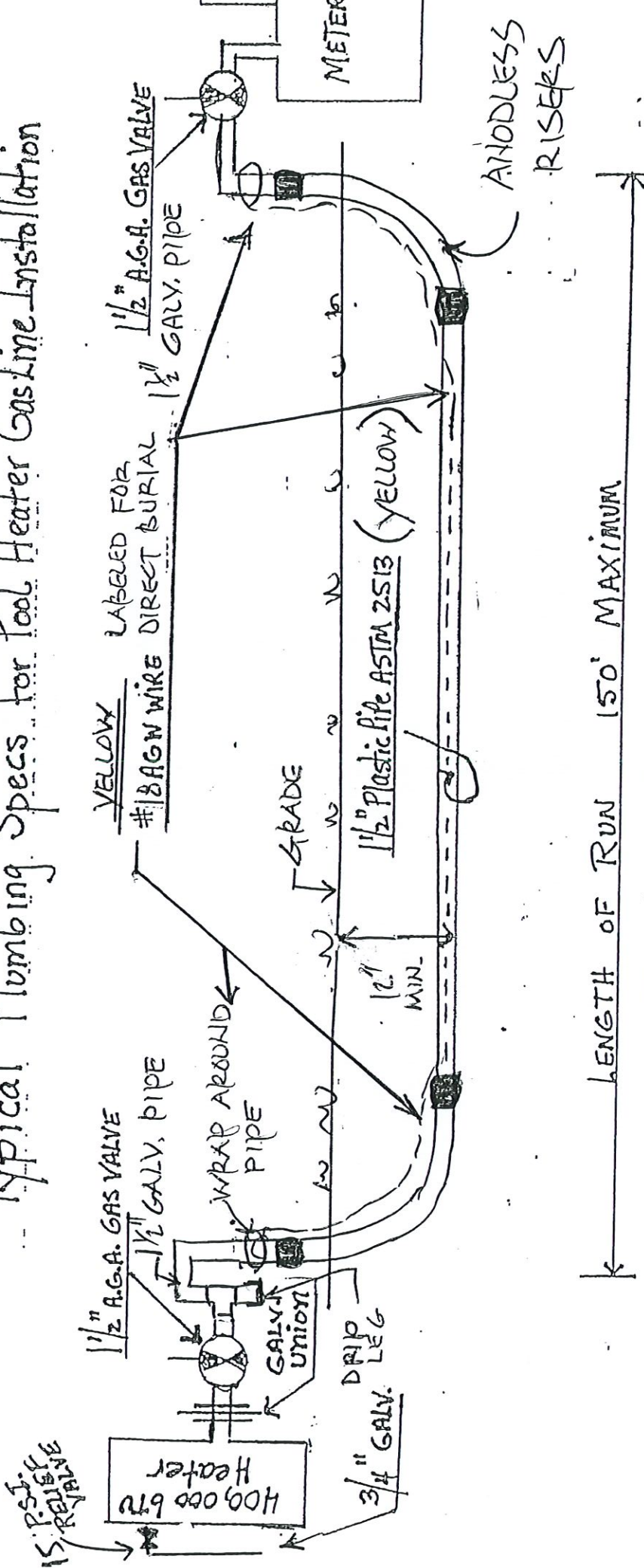
- 1) Subpanel 8 positions w/o Timeclock
- 2) Subpanel feed THHN # 10 - 4 wires in 3/4 diameter PVC conduit 30 amps 240 Volts
- 3) Conduit to deck box 3/4 PVC
- 4) Conduit to Wet Nitch 1" PVC
- 5) Bonding TW #8 Solid - Green
- 6) Pumps and other equipment hard wired with 1/2" conduit
- 7) All methods in compliance with applicable NEC requirements - all materials UL listed



Transition from Poly. to Galv. Pipe to be wrapped With (scotch guard) rubber guard polykem tape.

gas in its own trench (min. depth 12")

Typical Plumbing Specs for Pool Heater Gas Line Installation

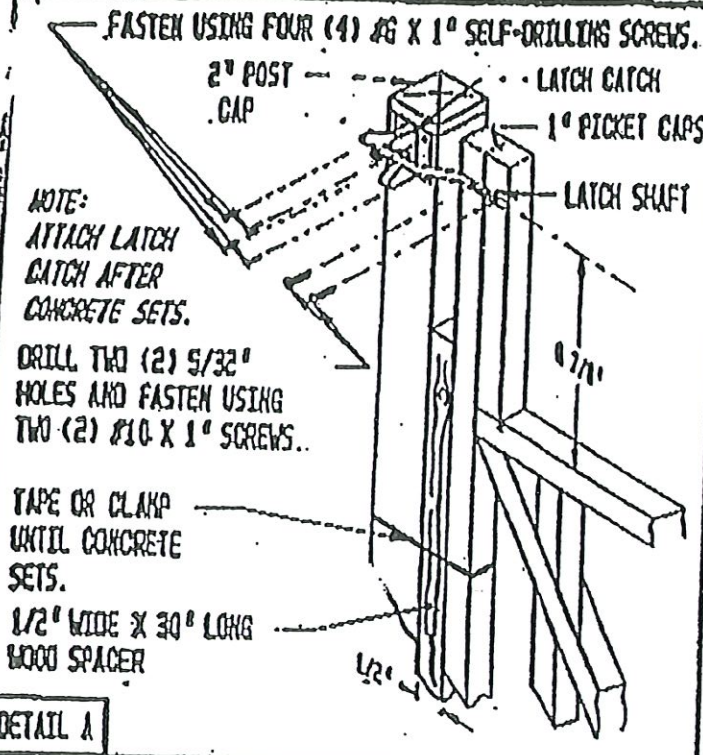


Typical Gas Pipe Work
1 1/2" Plastic ASTM 2513

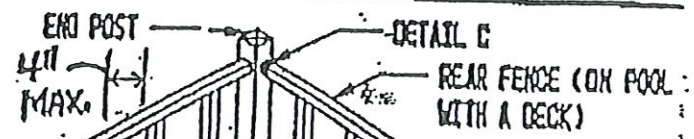
Air test to be witnessed by
Township Inspector prior to backfill.

12" MINIMUM DEPTH
#18 AGW YELLOW TRACER WIRE
PROLINE Yellow Locator Tape (OPT. OVER 6" DIRT BACKFILL)

ABOVE-GROUND POOL Step/Ladder Barrier Detail



DETAIL A

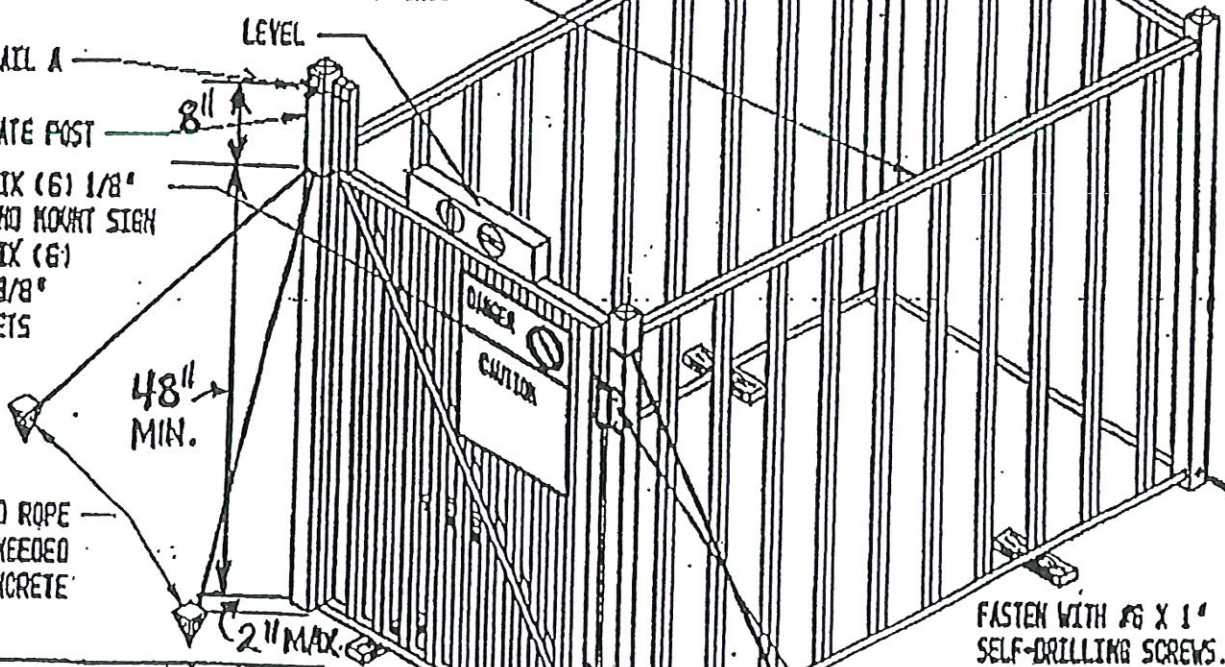


SELF LATCH

SEE DETAIL A

LATCH GATE POST

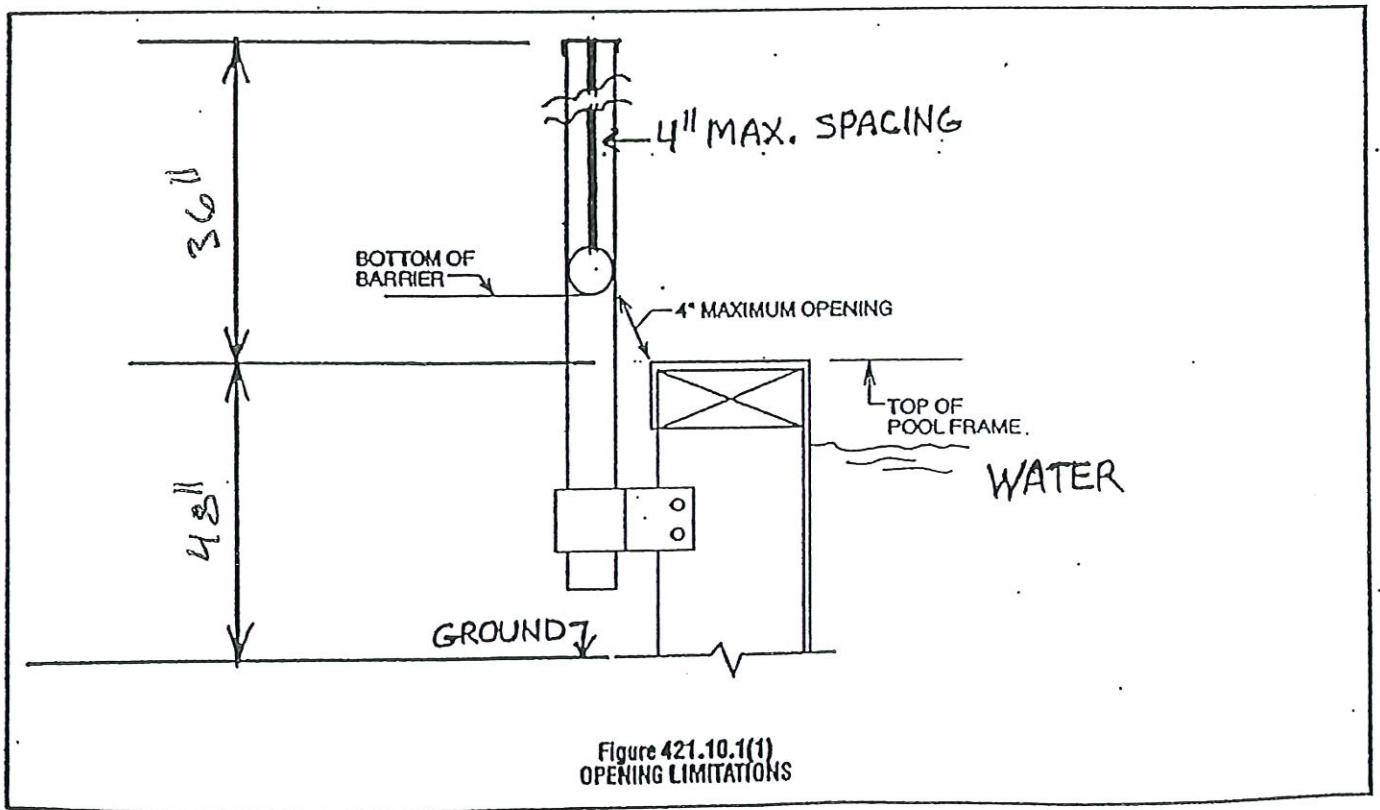
DRILL SIX (6) 1/8" HOLES AND MOUNT SIGN USING SIX (6) 1/8" X 3/8" POP-RIVETS



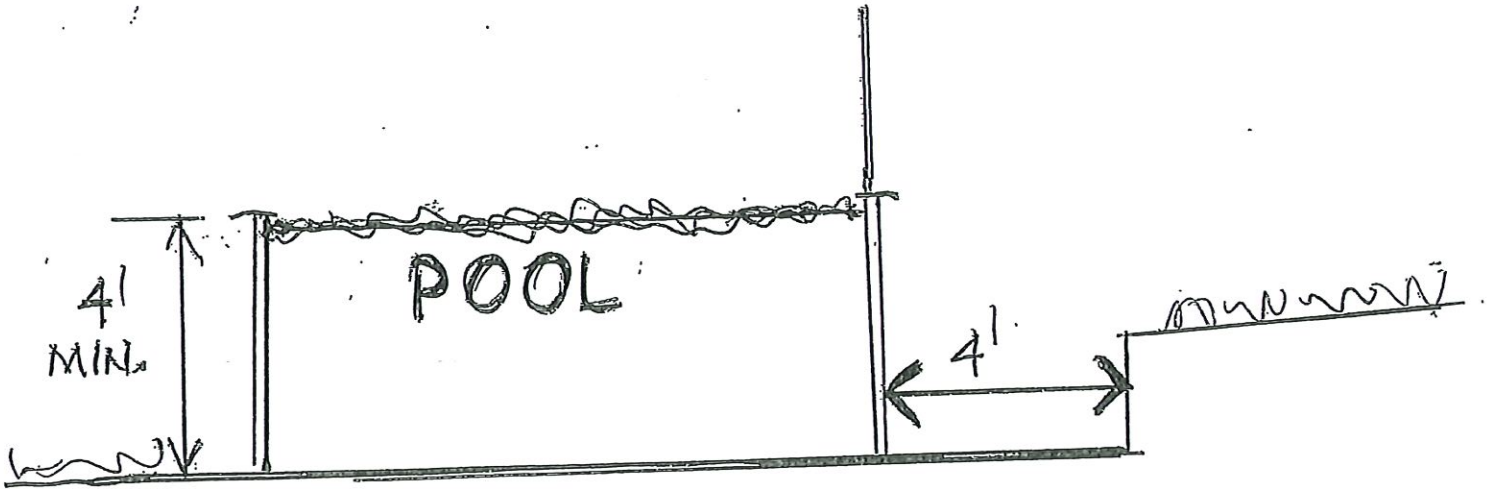
DETAIL B

STAKE AND ROPE POST AS NEEDED UNTIL CONCRETE SETS.

ABOVE-GROUND POOL DETAIL



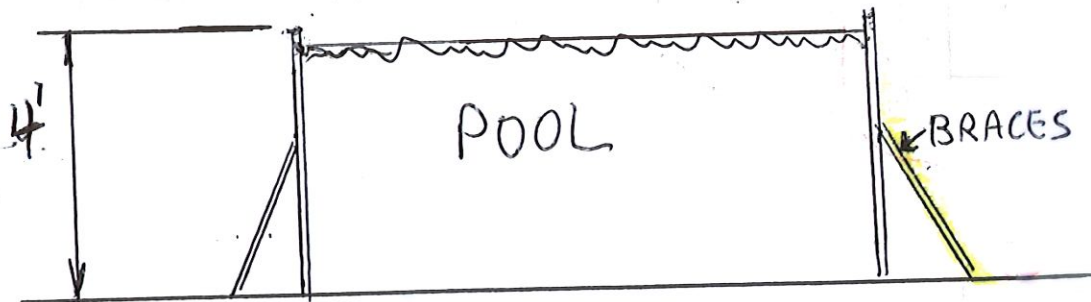
ABOVE GROUND POOLS ON SLOPING GRADE



EXCAVATE LEVEL 4' PAST WALL OF POOL

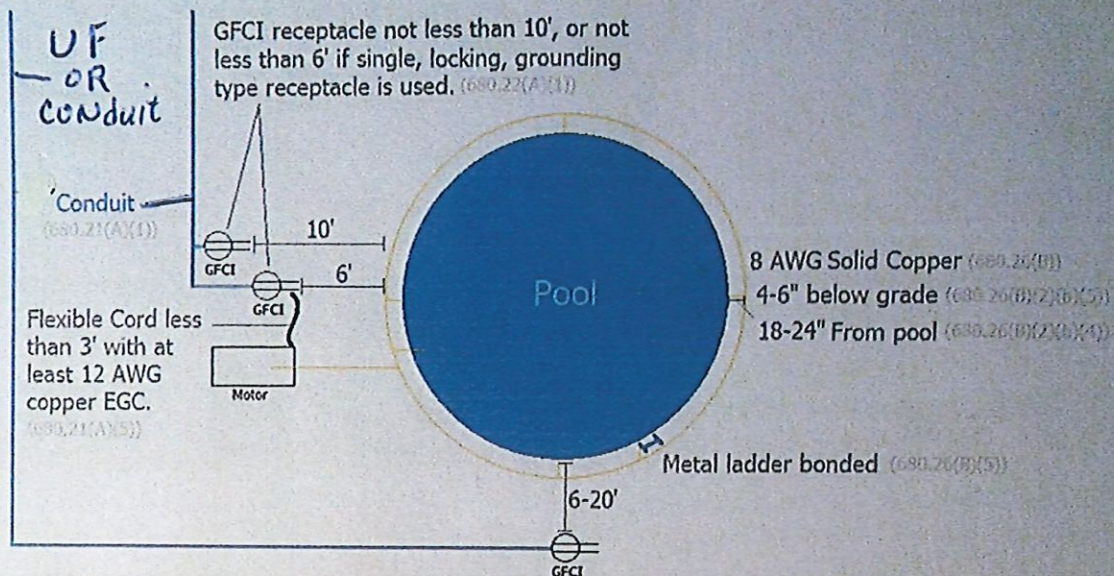
SHOW SIDE VIEW OF POOL AND GRADE

If pool has support braces, a 4-foot high pool barrier is required complying with page 2 and is independent from pool.



Electrical Requirements for Above-ground Swimming Pools – 2008 NEC.

1. GFCI (ground fault circuit interrupter) protected receptacle required between 6 and 20 feet from the pool.
2. Pool pump receptacle must be twist lock, GFCI protected with an in-use cover located minimum 6 feet from the pool.
3. Conduit for pool pump shall be minimum 18" cover.
4. Pool pump receptacle shall be mounted on a post usually 4" x 4" pressure treated.
5. Pool pump motor needs to be bonded to pool with #8 solid copper wire.
6. Pool pump receptacle feed wires shall be individual conductors in PVC or metal (rigid or intermediate). All wiring methods must have an insulated copper ground conductor no smaller than #12. **UF cable not allowed.**
7. All metal within 5 feet of inside wall of pool shall be bonded to the pool with #8 solid copper.
8. Bonding connectors shall be stainless steel, brass, copper or copper alloy.
9. The pool pump motor shall be listed and labeled for swimming pool use.
10. If the pool ladder is metal, it must be bonded to the pool.
11. A minimum 9 square inch conductive plate shall be installed in contact with the water. The plate must be included in the bonding network. This plate can be satisfied with a metallic fill pipe or a metal filter basket.
12. The perimeter surface, even if unpaved (lawn), must be bonded to the bonding grid at 4 points equally spaced around the perimeter. Bury the #8 solid copper 4 inches into the soil. If the pool structure contains no metal parts, extend the bonding ring to the pool pump. If the pool pump is double insulated, coil the bond wire at the pump to allow for future replacement of the pump. For nonconductive pool shells (fiberglass an example) bonding at four points shall not be required. See Article 680.26 for specifics.
(12-18 inches from pool).
Special Note: The above statements are illustrative of Code requirements only. Strict adherence to all Article 680 requirements is mandatory.
13. Romex allowed inside dwelling for pump branch circuit. Outside dwelling, THWN in conduit required including an insulated ground wire.
14. Equi-potential bonding. 680.26
15. Forming shell bonding and wet niche bonding are required.
16. **ALL NEC 2014 grounding and bonding are required.**



125 volt 15- or 20-ampere receptacle on general purpose branch circuit, more than 6', and less than 20' from inside wall of pool. Must be GFCI protected. (680.22(A)(3))

Equipotential Bonding

You'll bury a continuous loop of 8 AWG solid copper conductor around the pool ^{680.26(B)(2)(b)(1 & 2)}. The loop should be 4-6" deep ^{680.26(B)(2)(b)(5)}, and between 18-24" from the pool ^{680.26(B)(2)(b)(4)}. You'll then bond the frame of the pool to this loop, at 4 uniformly spaced points ^{680.26(B)(2)}. Next you'll bond the pool water to the loop, using a special bracket on the filter basket ^{680.26(C)}. Finally, the loop is bonded to the filter motor ^{680.26(B)(6)}.

Additional items to be bonded

- Metal ladder ^{680.26(B)(5)}.
- Concrete pads within 3' of the pool ^{680.26(B)(2)}.
- Underwater Lighting ^{680.26(B)(4)}.
- Underwater Audio Equipment ^{680.27(A)}.
- Electrically Operated Pool Covers ^{680.27(B)}.
- Deck Area Heating ^{680.27(C)}.