Town of Lowville Code Enforcement
5533 Bostwick Street
Lowville, New York 13367
(315) 376-8070 Ext 231 – Cell 315-681-8689 - Fax: (315) 376-3099

SWIMMING POOL BUILDING PERMIT APPLICATION

(Circle one) TOWN OF LOWVILLE

"EXACT" LOCATION (give directions)_____

_____

(Street/Road name, number, side of street/road, distance from nearest cross road)

TAX ID # FROM THE TAX BILL – **Required on all Applications (example 123.00-01-12.300)**

Tax Map No. Section_____ Block _____ Lot _____

(Circle) whether applicant is: OWNER, LESSEE, AGENT, OR BUILDER

Name and address of Applicant	*Name and address of Landowner (If other than Applicant)*
_____	_____
_____	_____
_____	_____
Phone No._____	Phone No. _____

Permit Fee $_____ Total Estimated Value of Construction $_____

Name of Contractor_____ Phone # _____

Address: _____

Contractor must Provide Proof of Workers Compensation Policy from their Insurance Carrier

Liability Insurance Carrier _____

CIRCLE ONE: IN GROUND POOL ABOVE GROUND POOL SPA HOT TUB

Size of Pool, Spa or Hot Tub _____
(Include size and depth)

ELECTRICAL INSPECTION AGENCY TO BE USED:

_____
List Agency to be used.

Attach to this application: **PLOT DIAGRAM** showing all property lines, streets, all structures and buildings on premises, dimensioned location of pool, spa or hot tub and fences. Note distances from property lines and all other structures. Pools and decks must comply with zoning requirements. (Please complete Plot Diagram on see page 3 to ensure compliance.)

If installing a deck, please provide the following information:

1. Footing materials and sizes (width and depth) _____

   Depth below grade to bottom of the footer _____

2. Post materials and sizes _____

3. Railings:
   Sizes, lengths and distance apart and bridging _____

   Type, size and thickness of flooring and decking _____

NECESSARY REQUIREMENTS

1. Overhead electric wires: minimum 10' measured horizontally from edge of pool, spa or hot tub, deck or any platform.
2. Ground Fault Circuit Interrupter (GFCI) device required.
3. All electrical installations MUST be inspected by an approved electrical inspection agency.
4. In-ground pools must be enclosed with a fence at least 4' high, gates or doors shall be self-closing and self-latching with latch handle at least 40" above grade and located within the enclosure and locked when pool is not supervised. Walls of aboveground pool may be used in lieu of fence, provided walls are 46" high on all sides, and ladder is removed when pool is not supervised. Folding ladders MUST be locked in up position. Please refer to the Technical Bulletin attached for clarification on self-set pools.
5. Pool alarms are required under section 1228.2 of section 378 of the Executive Law of New York State except as exempted on the following page.

PERMIT FEE: $50.00 Above-Ground Pool $100.00 Swimming Pool with Deck

$150.00 In-Ground Pool

Estimated Cost: $_____ Date: _____

I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF THE LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT. THE GRANTING OF A PERMIT DOES NOT PRESUME TO GIVE AUTHORITY TO VIOLATE OR CANCEL THE PROVISION OF ANY OTHER STATE OR LOCAL LAW REGULATING CONSTRUCTION OR THE PERFORMANCE OF CONSTRUCTION.

Owner's Signature _____

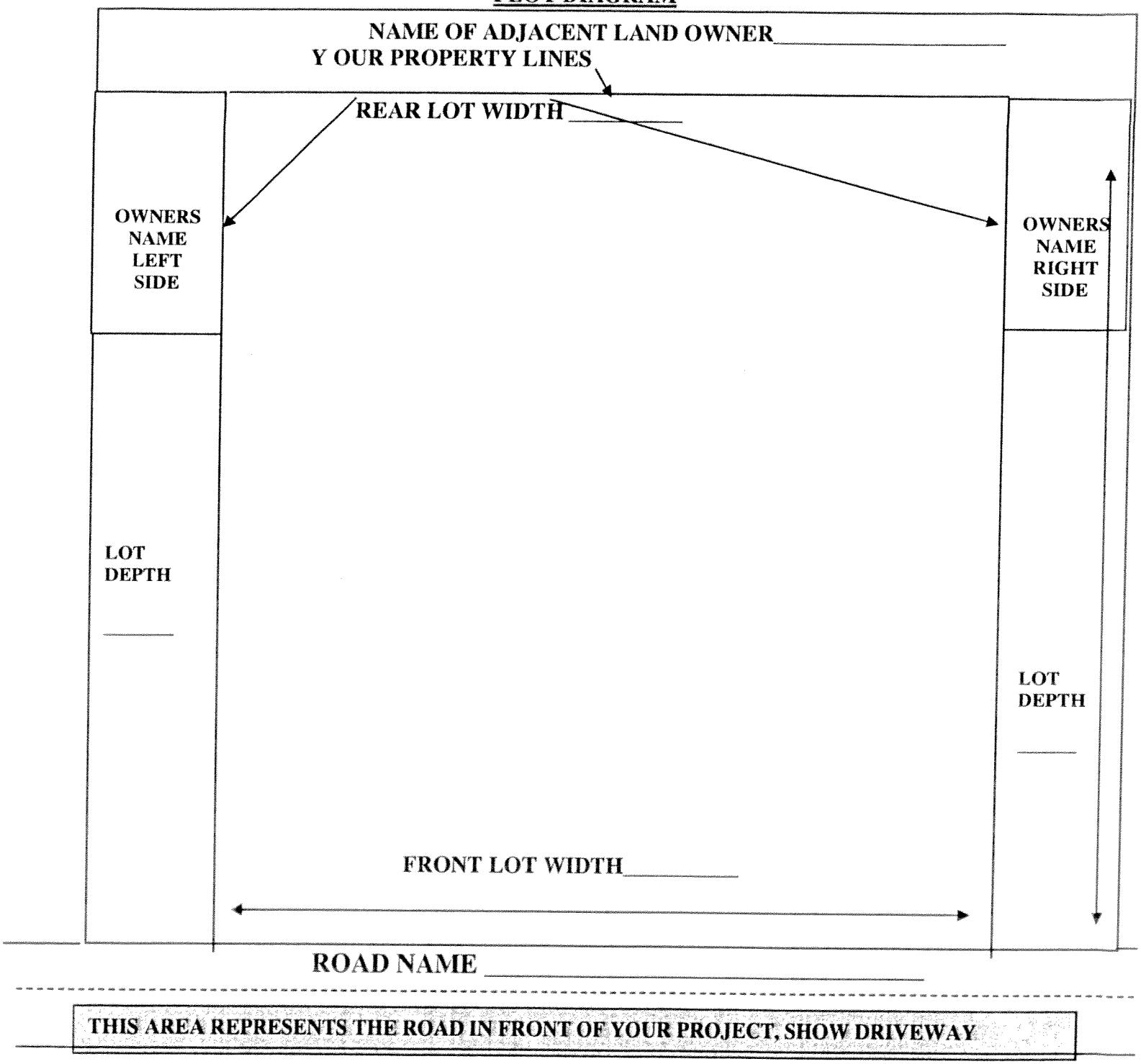
Code Enforcement Officer: _____

Fee: $_____ Date Paid: _____

Use the space below or attach a separate sheet to show the location of the proposed building(s) in relation to all roads public or private, distance proposed building is from all bodies of water, the location of all wells and septic systems, existing and proposed, the distance between buildings and give the road name as well as the names of all adjacent landowners. Also show the lot width and depth, and show the distance of proposed building(s) to all property lines.

NOTE: GIVE THE DISTANCE OF ALL WELL AND SEPTIC SYSTEMS ON NEIGHBORING PROPERTIES TO YOUR PROPOSED WELL/SEPTIC IF CLOSER THAN 150FT.

PLOT DIAGRAM



THIS AREA REPRESENTS THE ROAD IN FRONT OF YOUR PROJECT, SHOW DRIVEWAY

This project WILL / WILL NOT comply with Town of Lowville Zoning Regulations.

Signature of Zoning Official _____ **Date** _____

INSTRUCTIONS FOR SWIMMING POOL SPA OR HOT TUB APPLICANTS

A PERMIT IS REQUIRED for any pool, spa or hot tub has a depth greater than 24 inches, used, intended to be used or which may be used for swimming, bathing or wading, whether constructed, installed or maintained in, on or above the ground. Setbacks from property lines are REQUIRED for ALL pool, spas or hot tubs, and the position of the pool, spa or hot tub. The completed application should be mailed or delivered to the Town of Lowville Code Enforcement Office, 5533 Bostwick Street, Lowville, New York with the respective Permit Fee.

WORK ON THE POOL, SPA OR HOT TUB MAY NOT BEGIN BEFORE THE PERMIT IS ISSUED

TEMPORARY SWIMMING POOL ENCLOSURES

During the installation or construction of a swimming pool, such swimming pool shall be enclosed by a temporary enclosure, which shall sufficiently prevent any access to the swimming pool by any person not engaged in the installation or construction of the swimming pool, and sufficiently provide for the safety of any such person. Such temporary enclosure may consist of a temporary fence, a permanent fence, the wall of a permanent structure, any other structure, or any combination of the foregoing, provided all portions of the temporary enclosure shall be no less than four (4) feet high, and provided further that all components of the temporary enclosure shall have been approved as sufficiently preventing access to the swimming pool by any person not engaged in the installation or construction of the swimming pool, and as sufficiently providing for the safety of all such persons. Such temporary enclosure shall remain in place throughout the period of installation or construction of the swimming pool, and thereafter until the installation or construction of a complying permanent enclosure shall have been completed.

PERMANENT ENCLOSURES

A temporary swimming pool enclosure shall be replaced by a complying permanent enclosure. The installation or construction of the complying permanent enclosure must be completed within ninety days after the later of

- The date of issuance of the building permit for the installation or construction of the swimming pool or
- The date of commencement of the installation or construction of the swimming pool

Provided, however, that if swimming pool is installed or constructed without the issuance of a building permit, the installation or construction of the complying permanent enclosure must be completed within ninety days after the date of commencement of the installation or construction of the swimming pool. Nothing in this subdivision shall be construed as permitting the installation or construction of a swimming pool without the issuance of a building permit if such a building permit is required by any statute, rule, regulation, local law or ordinance relating to the administration and enforcement of the Uniform Code with respect to such swimming pool.

FENCING / BARRIERS / ENCLOSURES

§RAG105.2 Outdoor swimming pool. An outdoor swimming pool, including an in-ground, aboveground or on-ground pool, hot tub or spa shall be provided with a barrier which 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 which 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 which faces away from the swimming pool. Where the top of the pool structure is above grade, such as an aboveground pool, the barrier may be at ground level, such as the pool structure, or mounted on the top of the pool structure. Where the barrier is mounted on the 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 which do not have openings, such as a masonry or stone wall, 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 the tops of the horizontal members is less than 45 inches, the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 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 exceed 4 inches. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches in width.

6. Maximum mesh size for chain link fences shall be a 2.25-inch square unless the fence is provided with slats fastened at the top or the bottom which reduce the openings to not more than 1.75 inches.

7. Where the barrier is composed of diagonal members, such as a lattice fence, the maximum opening formed by the diagonal members shall not be more than 1.75 inches.

8. Gates shall comply with the requirements of §RAG105.2, items 1 through 7, and with the following requirements:

    8.1. All gates shall be self-closing. In addition, if the gate is a pedestrian access gate, the gate shall open outward, away from the pool.

    8.2. All gates shall be self-latching, with the latch handle located within the enclosure (i.e., on the pool side of the enclosure) and at least 40 inches above grade. In addition, if the latch handle is located less than 54 inches from the bottom of the gate, the latch handle shall be located at least 3 inches below the top of the gate, and neither the gate nor the barrier shall have any opening greater than 0.5 inches within 18 inches of the latch handle.

8.3. All gates shall be securely locked with a key, combination or other child proof lock sufficient to prevent access to the swimming pool through such gate when the swimming pool is not in use or supervised".

9. Where a wall of a dwelling serves as part of the barrier, one of the following conditions shall be met:

    9.1. The pool shall be equipped with a powered safety cover in compliance with ASTM F1346; or

    9.2. All doors with direct access to the pool through that wall shall be equipped with an alarm, which 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 immediately after the door is opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means, such as 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 switch(es) shall be located at least 54 inches (1372 mm) above the threshold of the door; or

    9.3. Other means of protection, such as self-closing doors with self-latching devices, shall be acceptable so long as the degree of protection afforded is not less than the protection afforded by 9.1 or 9.2 described above.

10. Where an aboveground 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:

    10.1. The ladder or steps shall be capable of being secured, locked or removed to prevent access, or

    10.2. The ladder or steps shall be surrounded by a barrier which meets the requirements of §RAG105.2, items 1 through 9. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.

_____
Print Name

_____
Sign Name

1228.2. Swimming Pool Alarms

(a) **Purpose.** This section is intended to implement the provisions of paragraph (b) of subdivision (14) of section 378 of the Executive Law, which requires that the New York State Uniform Fire Prevention and Building Code (the Uniform Code) provide that any "residential or commercial swimming pool constructed or substantially modified after the effective date of this paragraph

(December 14, 2006) shall be equipped with an acceptable pool alarm capable of detecting a child entering the water and of giving an audible alarm."

_____

Print Name

_____

Sign Name

ELECTRICAL CODE RULES BASED ON 2008 NFPA - 70
AND
THE RESIDENTIAL CODE OF NEW YORK STATE 2007

ALL IN-GROUND POOLS AND ABOVE GROUND POOLS CAPABLE OF HOLDING 42" OR MORE OF WATER ARE CONSIDERED PERMANETLY INSTALLED POOLS

1. If pump motor is located **from 6' to 10'** from outside pool wall. The receptacle must be **single, twistlock, 20 amp, GFCI protected with watertight in-use cover. 680.22-E4103.1.1**

2. A receptacle used unattended in a wet location shall have **watertight in-use cover. 406.8(b)(1) / 3902.8**

3. Pump motor cord to facilitate the removal or disconnection for maintenance or repair. The cord **shall not exceed 3' long** and shall have a grounding wire of not smaller than **# 12 AWG** copper. **680.7(a) / E4102.2(1)**

4. Circuit line for pump motor shall be continuous duty application shall have an ampacity of not less than 125% of the motors current rating **430-22 / 3602.6**

5. Wiring for pump motor receptacle **shall not have less than # 12 AWG insulated** copper grounding wire, and to be in conduit, except when entering building can change to #12 AWG romex. **680.21(a) / E4105.5**

6. All underground UF wire and PVC conduits must be 18" deep, unless circuit is protected by GFCI upstream, then 12" deep. **300-5 / E3703.1.** Only electric specific to the pool is allowed less than 5 feet to the water's edge and must be **18" deep** and be installed in an approved raceway.

7. At least one convenience **receptacle must be located between 6 and 20** feet from the water's edge and must be GFCI protected **680.22(a)(3) / 4103.1.1.** Existing receptacles between 10 and 20 feet shall be GFCI protected. **4103.1.1.**

8. No UF cable can be used except for **convenience receptacles only. 680-25(f) / E4102.1(b)**

9. All metal parts must be **bonded together with a No. 8 or** larger solid bare copper wire must be used. (Motor, ladders pool frame, diving board, lights, etc.) **680.26 / E4104.2**

10. When bonding pool frame or any metal parts to main bonding wires or wire mesh, you must **use non-corrosion clamps. 680-22(A)(B) / E4104.2.**

11. For dry niche, wet niche, no niche lighting fixtures. **680-20, 680-25(B) / E4106.6**

12. For any lighting fixtures outside of pool. **680-6 (b) (1)(2)(3) / E4103.4.1 – 4103.4.5**

NOTE: A building permit is required in **ALL** localities, secure permits **before starting.**

§RE4202 WIRING METHODS FOR POOLS, SPAS, HOT TUBS AND HYDROMASSAGE BATHTUBS

RE4202.1 General. Wiring methods used in conjunction with permanently installed swimming pools, spas or hot tubs that are installed in corrosive environments described in Section RE4202.2.1 shall comply with Table RE4202.1, Sections RE4202.2 and RE4205 and Chapter R38 except as otherwise stated in this section. Wiring methods used in conjunction with permanently installed swimming pools, spas or hot tubs that are not installed in corrosive environments shall comply with Chapter R38. Storable swimming pools shall comply with Section RE4207. Hydromassage bathtubs shall comply with Section RE4209. [680.7; 680.14 (A) and (B); 680.21(A); 680.23(B) and (F); 680.25(A); 680.42; 680.43; and 680.70]

TABLE RE4202.1
PERMITTED WIRING METHODS IN CORROSIVE ENVIRONMENTS[a]

WIRING LOCATION OR PURPOSE (Application allowed where marked with an "A")	IMC[b], RMC[b], RNC[b]	LFMC	LFNMC	MC[j]	FLEX CORD
Panelboard(s) that supply pool equipment: from service equipment to panelboard	A[f]	—	A	—	—
Wet-niche and no-niche luminaires: from branch circuit OCPD to deck or junction box	A	—	A	—	—
Wet-niche and no-niche luminaires: from deck or junction box to forming shell	A[j]	—	A	—	A[d]
Dry niche: from branch circuit OCPD to luminaires	A	—	A	—	—
Pool-associated motors: from branch circuit OCPD to motor[b]	A	A[c]	A[c]	A	A[d]
Packaged or self-contained outdoor spas and hot tubs with underwater luminaire: from branch circuit OCPD to spa or hot tub	A	A	A	—	A[d]
Packaged or self-contained outdoor spas and hot tubs without underwater luminaire: from branch circuit OCPD to spa or hot tub	A	A	A	—	A[d]
Indoor spas and hot tubs, and other pool, spa or hot tub associated equipment: from branch circuit OCPD to equipment	A	A	A	—	A[d]
Connection at pool lighting transformers or power supplies	A	A[i]	A	—	—

For SI: 1 foot = 304.8 mm.

a. For all wiring methods, see Section E4205 for equipment grounding conductor requirements.

b. See Section E4202.2.1 for use of metal conduits in corrosive environments.

c. Limited to where necessary to employ flexible connections at or adjacent to a pool motor.

d. Flexible cord shall be installed in accordance with Section E4202.2.

e. Nonmetallic conduit shall be rigid polyvinyl chloride conduit Type PVC or reinforced thermosetting resin conduit Type RTRC.

f. Aluminum conduits shall not be permitted in the pool area where subject to corrosion.

g. Where installed as direct burial cable or in wet locations, Type MC cable shall be listed and identified for the location.

h. See Section E4202.3 for listed, double-insulated pool pump motors.

i. Limited to use in individual lengths not to exceed 6 feet. The total length of all individual runs of LFMC shall not exceed 10 feet.

j. Metal conduit shall be constructed of brass or other approved corrosion-resistant metal.

RE4202.2 Corrosive environment. Areas where pool sanitation chemicals are

stored, areas with circulation pumps, automatic chlorinators or filters, open areas under decks adjacent to or abutting the pool structure and similar locations shall be considered to be corrosive environments. The air in such areas shall be considered to be laden with acid, chlorine and bromine vapors or any combination of acid, chlorine or bromine vapors; and any liquids or condensation in those areas shall be considered to be laden with acids, chlorine and bromine vapors, or any combination of acid, chlorine or bromine vapors. [680.14 (A)]

RE4202.2.1 Wiring methods. Wiring methods in the areas described in Section RE4202.2 shall be listed and identified for use is such areas. Rigid metal conduit (RMC), intermediate metal conduit (IMC), rigid polyvinyl chloride conduit (RNC) and reinforced thermosetting resin conduit shall be considered to be resistant to the corrosive environment specified in Section RE4202.2. [680.14 (B)]

RE4202.3 Flexible cords. Flexible cords used in conjunction with a pool, spa, hot tub or hydromassage bathtub shall be installed in accordance with the following:

1. For other than underwater luminaires, fixed or stationary equipment shall be permitted to be connected with a flexible cord to facilitate removal or disconnection for maintenance or repair. For other than storable pools, the flexible cord shall not exceed 3 feet (914 mm) in length. Cords that supply swimming pool equipment shall have a copper equipment grounding conductor not smaller than 12 AWG and shall terminate in a grounding-type attachment plug. [680.8(A), (B), and (C); 680.21(A)(5)]

2. Other than listed low-voltage lighting systems not requiring grounding, wet-niche luminaires that are supplied by a flexible cord or cable shall have all exposed noncurrent-carrying metal parts grounded by an insulated copper equipment grounding conductor that is an integral part of the cord or cable. Such grounding conductor shall be connected to a grounding terminal in the supply junction box, transformer enclosure, or other enclosure and shall be not smaller than the supply conductors and not smaller than 16 AWG. [680.23(B)(3)]

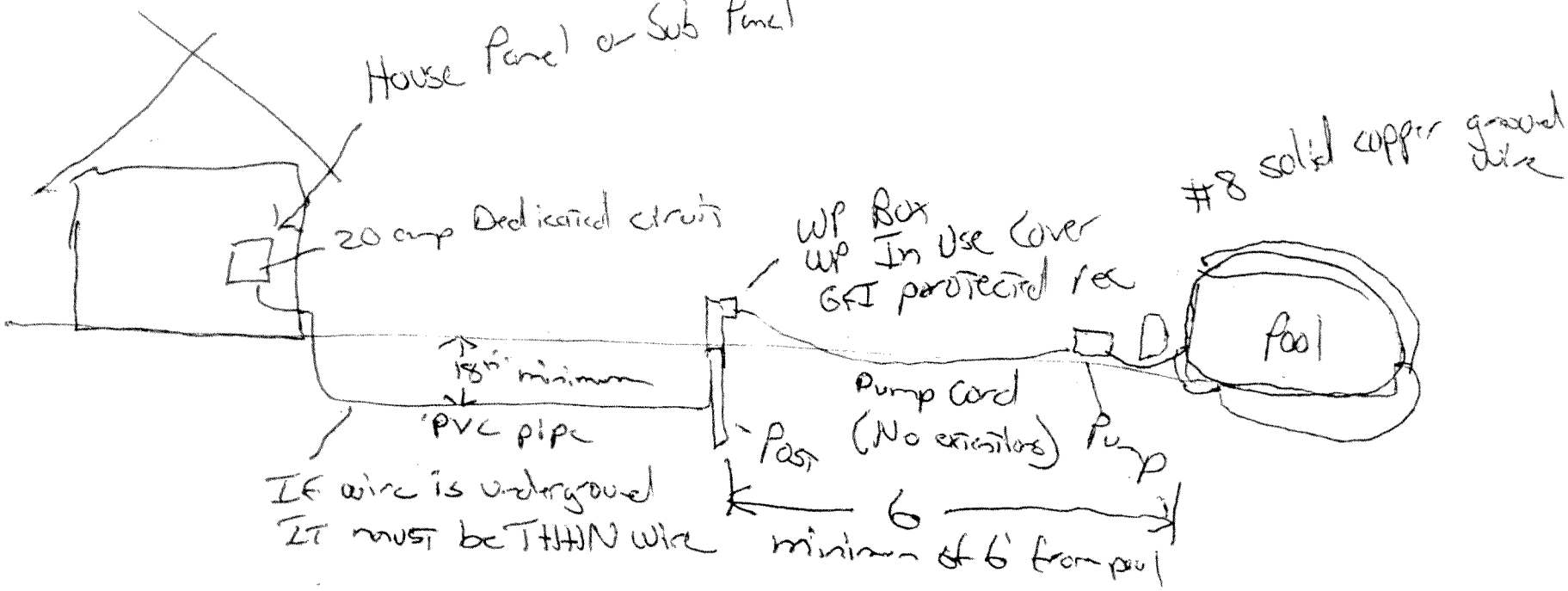
3. A listed packaged spa or hot tub installed outdoors that is GFCI protected shall be permitted to be cord-and-plug-connected provided that such cord does not exceed 15 feet (4572 mm) in length. [680.42(A)(2)]

4. A listed packaged spa or hot tub rated at 20 amperes or less and installed indoors shall be permitted to be cord and-plug-connected to facilitate maintenance and repair. (680.43 Exception No. 1)

5. For other than underwater and storable pool lighting luminaire, the requirements of Item 1 shall apply to any cord-equipped luminaire that is located within 16 feet (4877 mm) radially from any point on the water surface. [680.22(B)(5)]

RE4202.4 Double insulated pool pumps. A listed cord- and plug-connected pool pump incorporating an approved system of double insulation that provides a means for grounding only the internal and nonaccessible, noncurrent-carrying metal parts of the pump shall be connected to any wiring method recognized in Chapter R38 that is suitable for the location. Where the bonding grid is connected to the equipment grounding conductor of the motor circuit in accordance with Section RE4204.2, Item 6.1, the branch circuit wiring shall comply with Sections RE4202.1 and RE4205.5. [680.21(B)]

Above ground pools



1) you can have a switch installed
2) Must have a Timer inside or OUTside
3) #6 solid copper ground cable must go around Pool fitting Pool metal Braces in at least 3 places
4) Water + Pump must be bonded
5) If using a GFI rec it must be Tamper Resistant and if OUTside it must also be WR

In ground pools

must have all metal railing / Ladders bonded also
Bonding must be inspected prior TO Backfill