

**ELECTRICAL REQUIREMENTS
ABOVE GROUND SWIMMING POOLS
(ALSO SEE ATTACHED DRAWING)**

- 1) **Filter Outlet –**
 - a. **Must be GROUND FAULT PROTECTED.**
 - b. **Must be a Single Twist Lock receptacle (not a duplex type outlet)**
 - c. **Can Not be closer than 5 ft. to the wall of the pool (NEC-Art. 680-6 (a) 1 exception)**
- 2) **The wiring must be installed as follows-**
 - a. **In Conduit-Rigid Metal, IMC. PVC.**
 - b. **Wire must be minimum #12 copper, with insulated grounding conductor.**
- 3) **Extension cords are Not permitted.**
- 4) **The weather-proof cover for the twist-lock outlet Must be the type that can stay in the closed position while the male cord end is plugged into the outlet.**
- 5) **Maximum length of cord for pump motor is 3 feet.**

Article 680 – Swimming pools, Fountains, and similar installations

680-6. Receptacles, Lighting Fixtures, Lighting Outlets, Switching Devices, and Ceiling Fans.

(A) Receptacles.

(1) Receptacles on the property shall be located at least 10 ft (3.05 m) from the inside walls of a pool or fountain.

Exception: A receptacle(s) that provides power for a water pump motor(s) for a permanently installed pool or fountain, as permitted in Section 680-7, shall be permitted between 5 ft and 10 ft (1.52 m and 3.05 m) from the inside walls of the pool or fountain, and where so located, shall be single and of the locking and grounding types and shall be protected by a ground fault circuit-interrupter(s).

- (2) **Where a permanently installed pool is installed at a dwelling unit (s) at least one 125-volt receptacle shall be located a minimum of 10 ft. (3.05 m) from and not more than 20 ft (6.08 m) from the inside wall of the pool. This receptacle shall be located not more than 6 ft 6 in. (1.98 m) above the floor, platform, or grade level serving the pool.**
- (3) **All 125 volt receptacles located within 20 ft. (6.08 m) on the inside walls of a pool or fountain shall be protected by a ground-fault circuit-interrupter.**

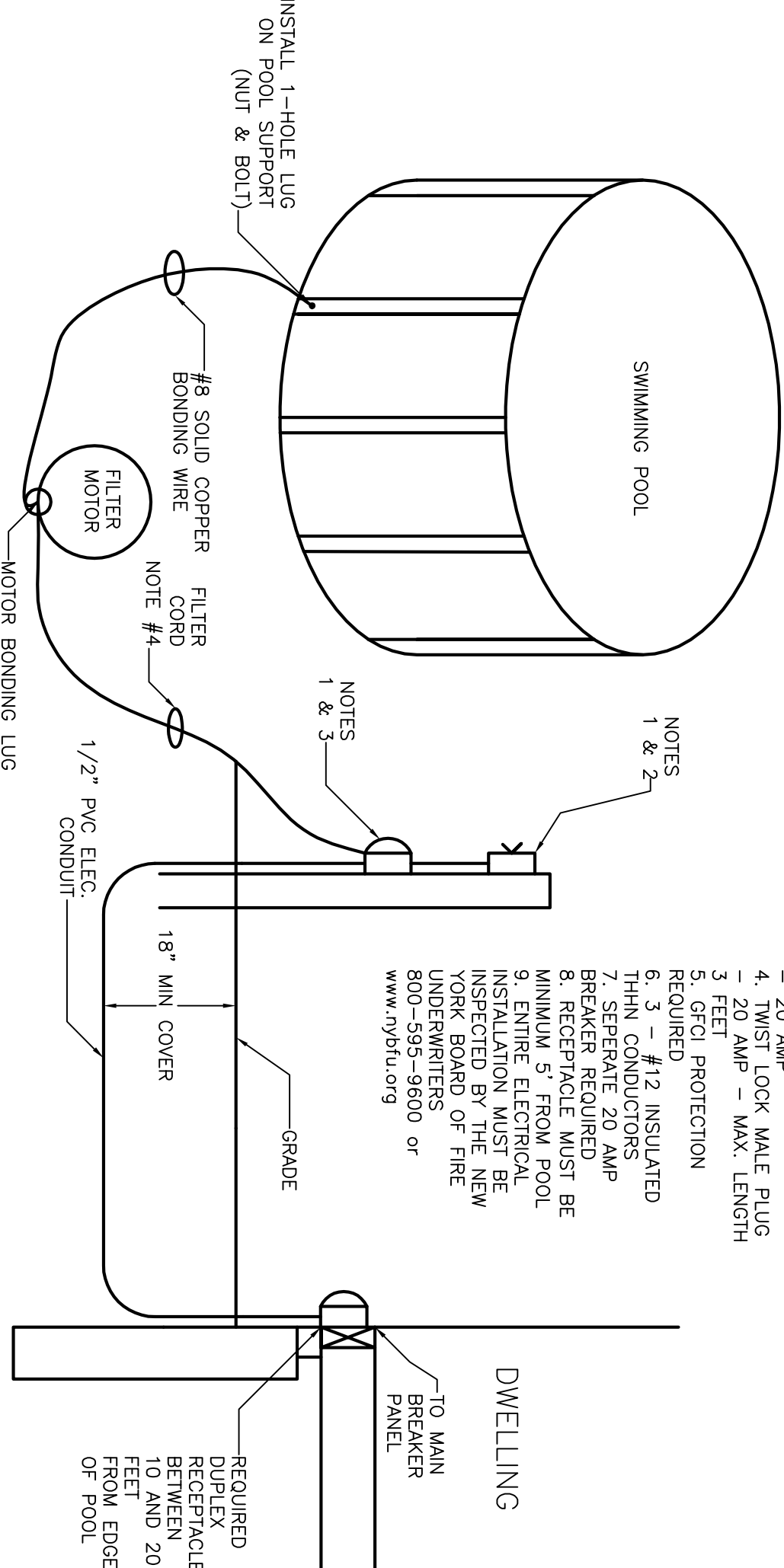
Section 680-6(a)(1), Exception, makes clear that a single locking and grounding-type receptacle used for a recirculating pump motor is permitted where it will be not less than 5 ft. from the inside walls of the pool or fountain, is of the single-locking type, and is protected by a GFCI.

Section 680-8(a)(3) also makes clear that all receptacles located within 20 ft of a permanently installed pool or fountain (outdoors or indoors, for dwelling unit or commercial use) are required to be protected by GFCIs. This distance of 20 ft. is intended to provide for location of receptacles beyond a pool deck. If located within the perimeter of a pool deck, the receptacle installation is likely to create a tripping hazard when the receptacle is in use.

For the 1996 Code, Section 680-6(a)(2) was modified to clarify the intended location of the receptacle. It is not intended that the distance requirement be satisfied by elevation above the surface of the water. For example, a receptacle installed at the ceiling, directly over the surface of the pool, would not be permitted.

For the 1996 Code, Section 680-6(a)(3) has been expanded to include receptacles within 20 ft of the inside walls of a fountain.

CITY OF TONAWANDA SWIMMING POOL ELECTRICAL REQUIREMENTS



- NOTES 1 & 2
- NOTES 1 & 3
1. WEATHERPROOF "FS" OR PVC BOX
 2. WEATHERPROOF TOGGLE SWITCH - 20 AMP - OPTIONAL
 3. TWIST LOCK RECEPTACLE - 20 AMP
 4. TWIST LOCK MALE PLUG - 20 AMP - MAX. LENGTH 3 FEET
 5. GFCI PROTECTION REQUIRED
 6. 3 - #12 INSULATED THHN CONDUCTORS
 7. SEPERATE 20 AMP BREAKER REQUIRED
 8. RECEPTACLE MUST BE MINIMUM 5' FROM POOL
 9. ENTIRE ELECTRICAL INSTALLATION MUST BE INSPECTED BY THE NEW YORK BOARD OF FIRE UNDERWRITERS 800-595-9600 or www.nybfu.org

DWELLING

TO MAIN BREAKER PANEL

REQUIRED DUPLEX RECEPTACLE BETWEEN 10 AND 20 FEET FROM EDGE OF POOL