



GENERAL INSTRUCTIONS FOR A PERMANENT SWIMMING POOL PERMIT

Need to submit:

1. Building permit application filled out completely, including cost of job for labor & materials (page 11).
2. Copy of contract.
3. If you are using more than one contractor, please list all contractors on the application.
4. Plat of survey indicating:
 - a. Location of the swimming pool with all distances from the swimming pool to the lot lines and the distance from the swimming pool to the primary structure.
 - b. Location of all utilities
 - c. Location of all easements
 - d. Location of all existing and proposed electric
 - e. Location of swimming pool heater (if applicable)
5. Swimming pool plans, including:
 - a. Dimensions of swimming pool.
 - b. Type of swimming pool (e.g. in-ground, above-ground, etc.)
6. Information on required barrier compliance (e.g. fence around swimming pool, wall of swimming pool, wall of swimming pool with railing, etc.)
7. Manufacturer specifications on swimming pool pumps and filters
8. Manufacturer specifications on swimming pool heater (if applicable)
9. Completed Swimming Pool Requirement Worksheet (pages 9-10).

Swimming Pool Definition: Any structure intended for swimming or recreational bathing that contains water over 24 inches deep. This includes, but is not limited to, in-ground, above-ground, and on-ground swimming pools, hot tubs, and spas.

All swimming pools shall comply with the following:

1. All work shall meet the requirements in the 2021 International Energy Conservation Code, 2021 International Property Maintenance Code, and 2020 National Electrical Code, and all local amendments.
2. Placement
 - a. Swimming pools are permitted in the rear yard only. Swimming pools are not permitted to be placed in front yards, side yards, or corner side yards.
 - b. Swimming pools are not permitted in any easement areas.
 - c. Swimming pools and associated barriers shall not adversely affect the way water drains from the property in which the pool is placed as well as any adverse effects to adjoining properties.
 - d. Any concrete associated with the pool such as a concrete deck area for an in-ground pool is not permitted in any easement area.
 - e. Above-ground pools must not exceed 6 feet in height.
 - f. All pool types must be:
 - i. 5 feet minimum from rear property line to the wall of the pool.



- ii. 5 feet minimum from the side property line to the wall of the pool. (The size of the easement areas may increase these setbacks. Refer to your property's Plat of Survey for the size of all easement areas that may affect your installation.)
- iii. 10 feet from the primary structure to the wall of the pool.
- iv. 10 feet from any accessory structures (with the exception of a permanent deck or patio).

3. Utility Wires

- a. Swimming pools may not be located over or under any utility wires.
- b. Underground utilities shall not be located within 5 feet of the swimming pool.
- c. Overhead utilities shall not be located within 10 feet horizontal of the swimming pool. Pool related equipment such as but not limited to diving platforms may increase these required clearances. Provide information on all pool related equipment being installed that may affect this requirement.

4. Barriers

- a. Pools with the top of the wall less than 48 inches above the surrounding finished grade must be enclosed with an approved barrier. The minimum height of the pool barrier must be a minimum of 48 inches above the surrounding grade measured to the lowest point of the proposed barrier.
- b. Pools with the top of the pool wall 48 inches or greater above the surrounding grade are not required to have a separate fence or barrier.
- c. Where an approved 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 one of the following must apply:
 - i. The ladder or steps are secured, locked, or removed to prevent access.
 - ii. The ladder or steps shall be surrounded by a barrier which meets all of the listed barrier requirements.
 1. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4 inch-diameter sphere.
- d. 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.
- e. Where a 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 1-3/4 inches. When the tops of horizontal members are 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 1-3/4 inches in width.
- f. Solid barriers which do not have openings, such as masonry or stone wall, shall not contain indentations or protrusions except for normal construction tolerances.
- g. Barriers composed of diagonal members, such as lattice fence, the maximum opening formed by the diagonal members shall not be more than 1-3/4 inches.
- h. Pedestrian access gates shall comply with all barrier requirements, as well as meeting the following requirements:



- i. Open outward away from the pool area.
 - ii. Equipped to accommodate a locking device.
 - iii. Be self-closing and self-latching.
- i. Gates other than pedestrian access gates shall be provided with a self-latching device and a means to secure the gate when not in use.
- j. Self-latching device / access gate release:
 - i. Located a minimum of 54 inches above grade on exterior side of the access gate.
 - ii. Located on the interior side of the access gate, installed a minimum 3 inches below the top with any openings within 18 inches of the release to be no greater than ½ inch in size.
- k. Where the dwelling serves as part of the barrier one of the following conditions shall be met:
 - i. The pool shall be equipped with a power safety cover in compliance with ASTM F 1346.
 - ii. 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/or its screen, if present, are opened. The alarm shall be listed and *labeled* in accordance with UL 2017. The deactivation switch(es) shall be located at least 54 inches. (Whole house alarms do not have these capabilities and will not be accepted as an alternative.)
 - iii. Barriers shall be located to prohibit permanent structures, equipment or similar objects from being used to climb them.

5. Entrapment Protection

- a. Suction outlets shall be designed and installed in accordance with ANSI/APSP-7.

6. Electrical

- a. The branch circuits for pool associated motors shall be installed in rigid metal conduit, intermediate metal conduit, or rigid nonmetallic conduit. EMT type conduit is only permitted within or on buildings.
- b. Any wiring method employed shall contain an isolated copper equipment grounding conductor sized as follows:

<u>Overcurrent device size</u>	<u>Grounding conductor size</u>
60, 40, 30	10 AWG
20, 15	12 AWG

- c. Burial depths shall be as follows:
 - i. Minimum of 6 inches for Rigid conduit. (EMT is not permitted.)
 - ii. Minimum of 18 inches for PVC conduit.
- d. Receptacles that provide power for water-pump motors or for loads directly related to the circulation and sanitation system shall be located at least 6 feet from the inside wall of the pool.
- e. No less than one 125 volt, 15 or 20 ampere GFCI protected receptacle on a general-purpose branch circuit shall be located not less than 6 feet from, and not more than 20 feet from the pool wall. This outlet shall be located no greater than 6 feet 6 inches above the grade level serving the pool.
- f. A means for disconnecting electrical power to all pool equipment shall be provide for routine maintenance. This disconnect shall be located within sight of the pool equipment.

7. Equipotential Bonding

- a. An 8 AWG solid copper conductor shall be installed to reduce voltage gradients in the pool area. This bonding lead shall be provided for the following:



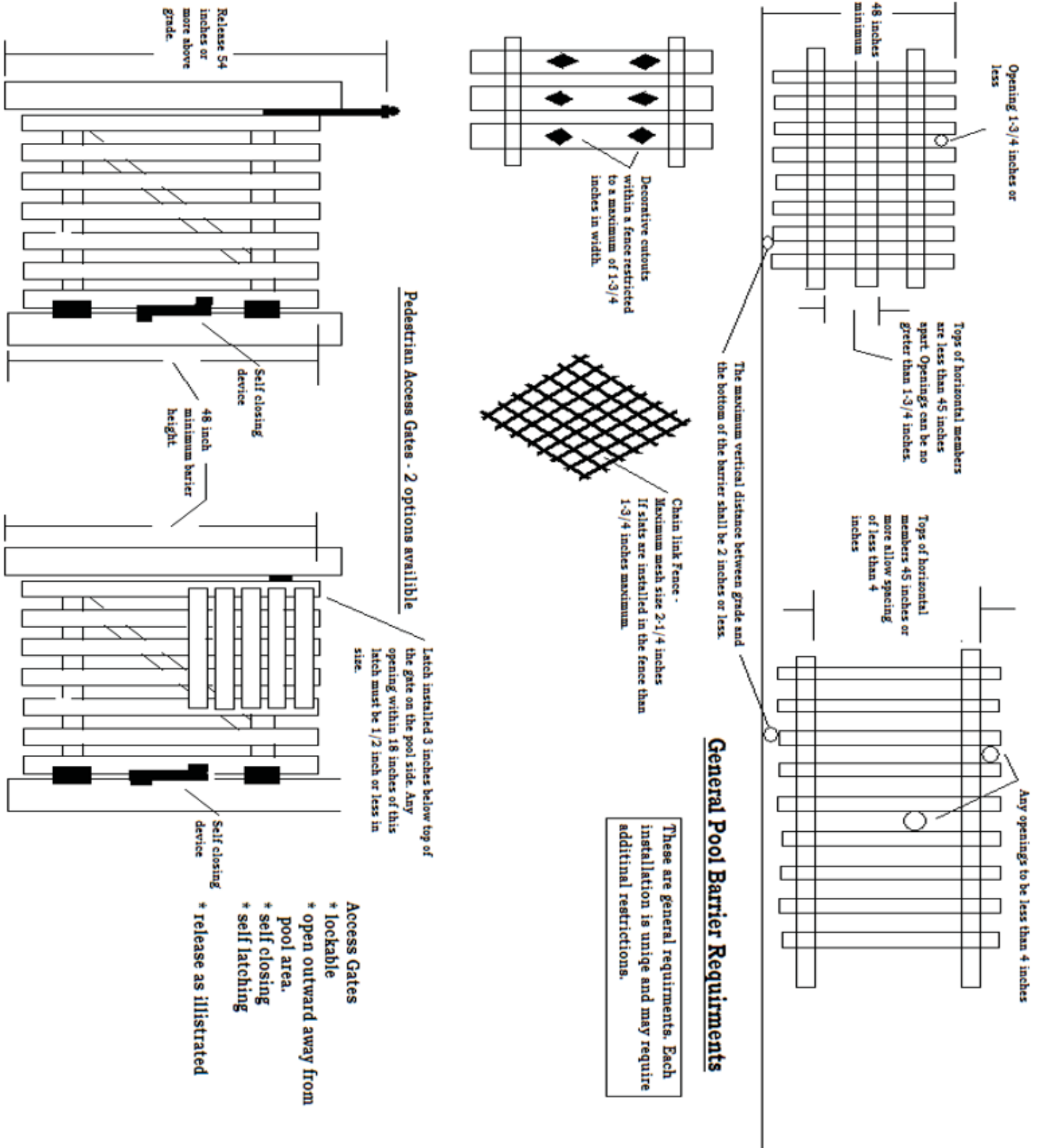
- i. Conductive Pool Shells – at 4 points around the pool’s perimeter.
 - ii. Perimeter Surfaces – paved or unpaved, entire perimeter of the pool, 4 – 6 inches below grade, Installed between 18 - 24 inches from the pool wall.
 - iii. Metallic Components – within 5 feet of the pool.
 - iv. Under Water lighting – Those systems employing metal components.
 - v. Metal fittings – All metal fittings within or attached to the metal pool structure.
 - vi. Electrical equipment – Metal parts of electrical equipment associated with the pool water circulation system, including pump motors and metal parts of equipment associated with pool covers, including electric motors. **(This would include filtration systems as well as heaters located in a remote location on the property.)**
 1. Where a double insulated pump has been installed a bonding lead shall not be installed, however a lead of sufficient length shall be provided in the vicinity of the circulation motor for future use if required.
 - vii. Metal wiring methods and equipment – located within 5 feet.
 - viii. Pool water – 9 square inches required.
 - b. Connections shall be made by exothermic welding or by listed pressure connectors or clamps that are labeled as being suitable for the purpose and are of stainless steel, brass, copper, or copper alloy.
8. Energy Conservation
- a. Pool Heaters – Shall be provided with an on-off switch to allow shutting off the heater without adjusting the thermostat setting. Pool heaters fired by natural gas shall not have continuously burning pilot lights.
 - b. Time Switches – Provide timer that can automatically turn off and on heaters and pumps according to a preset schedule.
 - c. Pool Covers – Heated pools shall be equipped with a vapor-retardant pool cover installed at the pool water surface. Pools heated to 90 degrees shall have a pool cover with a minimum insulation of R-12.
9. Pool Heaters
- a. The gas line for the heater shall be protected against physical damage where it enters and exits the ground. The gas line shall be buried a minimum of 12 inches below grade. A yellow tracer wire shall be installed adjacent to underground nonmetallic piping. Access shall be provided to the tracer wire or the tracer wire shall terminate above ground at each end of the nonmetallic piping. The tracer wire shall not be less than 18 AWG and the insulation type shall be suitable for direct burial. The trench shall be inspected before burial of gas line.
 - b. The heater shall be installed on a non-combustible base.
 - c. The heater shall be installed at least 5 feet away from the inside wall of the pool.
 - d. The heater shall not be installed in a location where the heater’s combustion air and venting shall be obstructed.
 - e. A main gas shut-off valve must be installed on the outside of the unit, within 6 feet of the heater and readily accessible.
 - f. A union shall be provided on the downstream side of the main shut-off valve for maintenance or replacement.

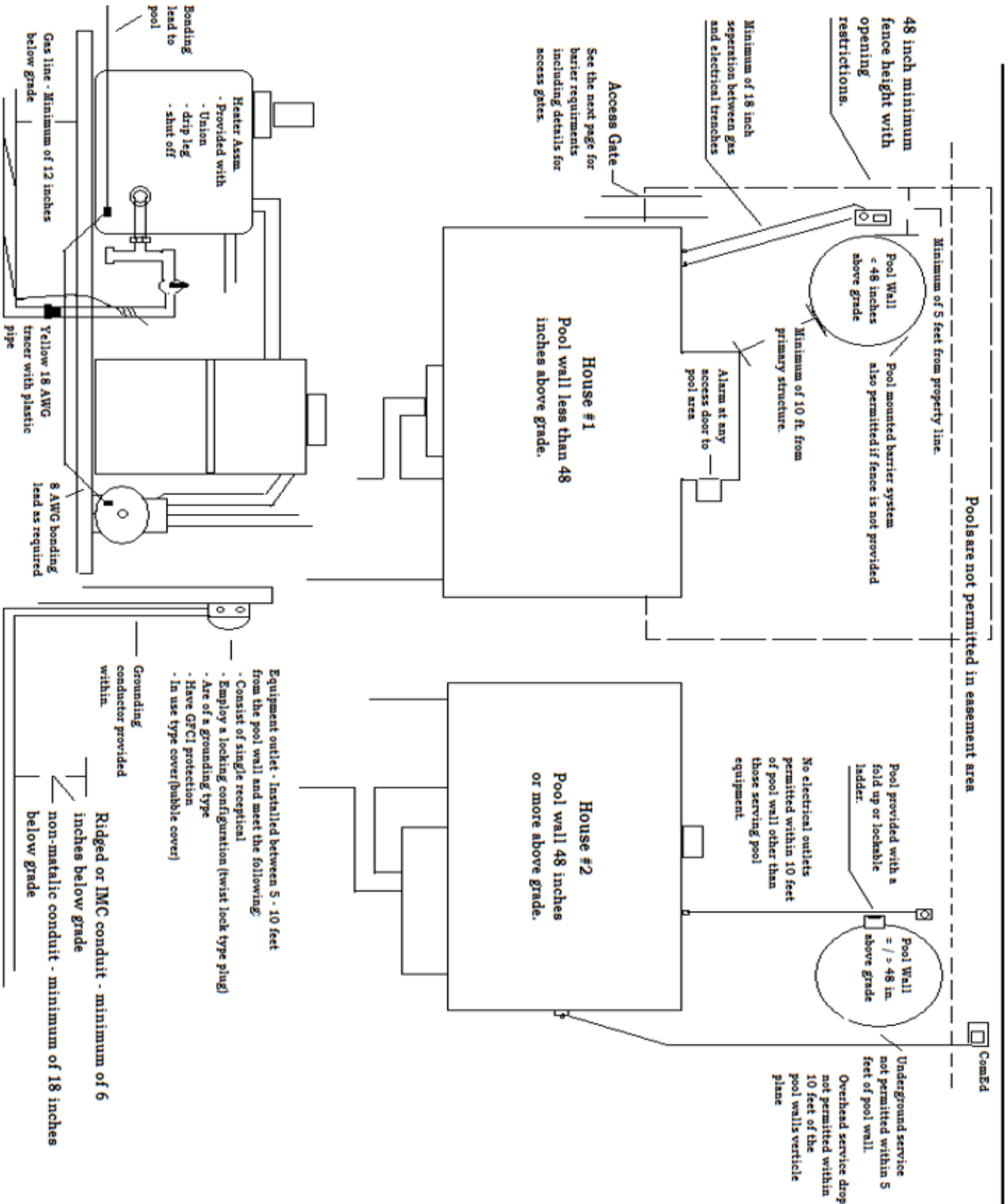


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Email: bzinfo@oswegoil.org

- g. A sediment trap shall be installed in the main gas line as close to the downstream side of the shut-off valve as possible. The sediment trap shall be a minimum of 3 inches in length and readily accessible.
- h. Flexible appliance connectors shall not be used unless the connector is rated and approved for outdoor installation and for the type of fuel to be used. The connector shall be protected against physical damage.
- i. The plumbing system and connections shall comply with the manufacturer's specifications.
- j. Buried gas and buried electric shall be separated by a minimum of 18 inches.
- k. All electric to the heater shall be in accordance with the 2020 National Electrical Code and all local amendments, and the listed manufacturer specifications.
- l. The heater shall not be installed under a deck or stairs.
- m. If enclosed in an approved structure, proper venting of the unit and sufficient combustion air shall be provided in compliance with all applicable codes.

Note to applicant: Contact your Homeowner's Association before you begin work. The Village of Oswego has no authority to enforce the covenants or adopted rules of your Homeowner's Association.



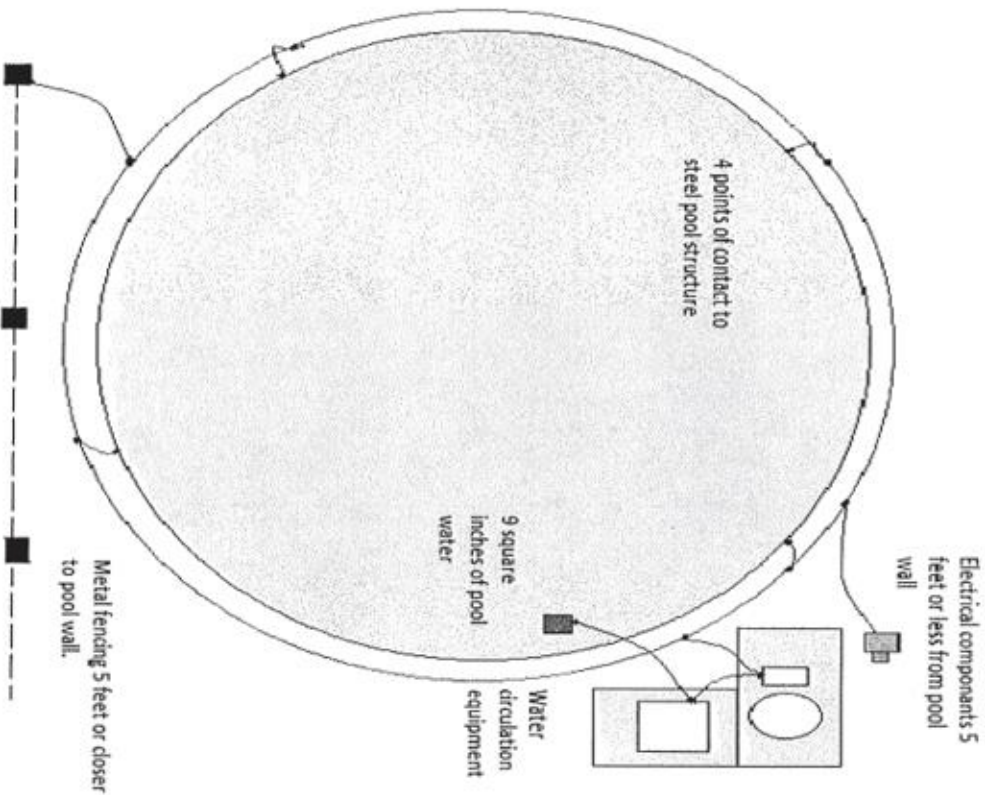


The equipotential bonding required by the 2020 National Electrical Code shall be installed to reduce voltage gradients in the pool area.

NEC 680.26 Equipotential Bonding

The parts specified here in shall be bonded together using solid copper conductors, insulated covered, or bare, not smaller than 8 AWG. The bonding conductor provided to reduce voltage gradients in the pool area shall not be required to be extended or attached to remove panel boards, service equipment, or electrodes.

- A. Conductive Pool Shells** – This applies to the steel reinforcement located within poured concrete or spray applied pool systems.
- B. Perimeter Surfaces** – Continues around the perimeter of the pool, located 18 – 24 inches from the pool wall and buried 4 – 6 inches below grade. This also requires 4 uniformly spaced listed connections to the pool shell.
- C. Metallic Components** - All conductive pool accessories such as diving board equipment and conductive ladders.
- D. Underwater lighting** - All metal forming shells and mounting brackets of no-niche luminaires shall be bonded.
- E. Metal Fittings** - All metal fittings within or attached to the pool structure shall be bonded.
- F. Electrical Equipment** - Metal parts of electrical equipment associated with the pool water circulating system, including pump motors and metal parts of equipment associated with pool covers, including electric motors, shall be bonded.
- G. Metal Wiring Methods and Equipment** - Metal-sheathed cables and raceways, metal piping, and all fixed metal parts shall be bonded. When located 5 feet or less from the pool wall.
- H. Pool Water** - An intentional bond of a minimum conductive surface area of 9 square inches shall be installed in contact with the pool water.





SWIMMING POOL REQUIREMENT WORKSHEET

1. Indicate the type of swimming pool to be installed:
 ABOVE-GROUND **IN-GROUND** **ABOVE-GROUND PARTIALLY BURIED**

2. What will service as the required barrier? **EXISTING FENCE** **NEW FENCE**
 POOL WALL WITH SECURED OR REMOVABLE LADDER **OTHER**

If **OTHER**, provide details: _____

(Note: When a fence is placed at the property line and extends to the home rather than encompassing the pool, the house is considered part of the barrier and will require the installation of an alarm at all doors with access to the pool area.)

3. What is the proposed height of the barrier? _____ inches
(This measurement shall be from grade to the lowest point on the barrier that faces away from the swimming pool.)

4. Will a new underground electrical branch circuit be installed to provide power to the swimming pool equipment? **YES** or **NO**

5. Indicate the type of GFCI protection that will be provided for the swimming pool equipment.
 CIRCUIT BREAKER **DEVICE LOCATED AT EQUIPMENT**

6. What is the proposed location of the electrical timer for the pool equipment to be installed?
 INTERIOR NEAR ELECTRICAL PANEL **EXTERIOR OF THE HOME**
(A locking device is recommended where accessible to small children.)

7. What type of suction inlet will be provided? (water returning to the filtration system)
 SKIMMER ONLY **FLOOR DRAIN AND SKIMMER** **FLOOR DRAINS**

8. Will a heater be installed for the pool? **YES** **NO** If yes, will a new gas line to the equipment be installed? **YES** **NO** If no, please explain _____

9. Will a deck be provided to serve the swimming pool? **YES** **NO**
If yes, deck type: **NEW WOOD CONSTRUCTION** **CONCRETE CONSTRUCTION**
 METAL SOLD AS PART OF THE POOL PACKAGE **OTHER**
If other, please explain: _____

10. Will a diving board be installed? **YES** **NO**

11. Residential lots have a maximum impervious surface coverage requirement. "Impervious Surface" refers to surfaces that alter the natural course or rate of absorption of stormwater, and may include, but is not limited to, principal structures, accessory structures, decks, walkways, paved parking lots, and paved driveways. To assist staff in calculating the impervious surface of your property, please provide the information on the following page:



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Impervious Surface Type	Impervious Surface Area (sq ft)	
	Existing	Proposed
Building Footprint (including attached garage)		
Driveway		
Walkways		
Decks, Porches, Patios		
Swimming Pools, Hot Tubs		
Detached accessory structures (sheds, gazebos, garages)		
Other		



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RECEIVED _____
 ENTERED _____
 APPROVED _____
 CONTRACTOR REG. _____
 COMPLETE _____

Building Permit Application

Permit No. _____

CUSTOMER/OWNER INFORMATION	Name _____ Project Address _____ Sub-division _____ Lot No. _____ Phone No. _____ Email _____
CONTRACTOR INFORMATION	Name _____ Address _____ City _____ State _____ Zip _____ Phone No. _____ Email _____ Field Contact Name _____ Phone No. _____

Approximate Construction Cost (Including Labor): \$ _____
 All permit applications require supplementary documents for each permit request

EXISTING & NEW STRUCTURE REQUESTS	<input type="checkbox"/> Re-roof <input type="checkbox"/> Siding <input type="checkbox"/> Replacement Windows <input type="checkbox"/> Replacement Doors <input type="checkbox"/> Deck <input type="checkbox"/> Patio/Side Walks <input type="checkbox"/> Driveway <input type="checkbox"/> Radon Mitigation <input type="checkbox"/> Solar <input type="checkbox"/> Fence <input type="checkbox"/> Shed <input type="checkbox"/> Pergola <input type="checkbox"/> Hot Tub <input type="checkbox"/> Swimming Pool <input type="checkbox"/> Above <input type="checkbox"/> Inground <input type="checkbox"/> Temporary <input type="checkbox"/> HVAC <input type="checkbox"/> Water Heater <input type="checkbox"/> Plumbing Work <input type="checkbox"/> Electrical Work <input type="checkbox"/> Additions <input type="checkbox"/> Basement/Remodel • Location _____ <input type="checkbox"/> Lawn Irrigation <input type="checkbox"/> Garage <input type="checkbox"/> Other _____	CHICKEN COOP & TENT	<input type="checkbox"/> Chicken Coop <input type="checkbox"/> Tent
COMMERCIAL & NEW HOME REQUESTS	<input type="checkbox"/> Single Family Residence <input type="checkbox"/> Senior Housing <input type="checkbox"/> Two Family Residence (Duplex) <input type="checkbox"/> Senior Housing <input type="checkbox"/> Multi-Family Residence • (No. Units _____) <input type="checkbox"/> Senior Housing <input type="checkbox"/> Demolition <input type="checkbox"/> Commercial/Industrial Building (NEW) <input type="checkbox"/> Commercial/Industrial Remodeling (Build outs) <input type="checkbox"/> Fire Protection: <input type="checkbox"/> Sprinkler <input type="checkbox"/> Alarm <input type="checkbox"/> Ansul <input type="checkbox"/> Storm Water Connection <input type="checkbox"/> Right of Way	Square Footage of All Areas	1st Floor _____ 2nd Floor _____ 3rd Floor _____ Add. Floors _____ Basement _____ Crawlspace _____ Garage _____ Porch _____ Deck/Patio _____ Outdoor Seat. _____ Outdoor Storage _____ Total _____
	<u>New Residential Only</u> No. of Bedrooms _____ No. of Baths _____	<u>New Construction Only</u> No. of Tenant Spaces _____ No. & Sizes of Water Connect _____ _____	

Certificate:

I HEREBY CERTIFY THE ABOVE STATEMENTS TO BE CORRECT

The applicant agrees to conform to all applicable Federal, State, and Local laws of this jurisdiction. They also agree that all work performed under this permit will be in accordance with plans and specifications accompanying this application, except for changes as may be required by the adopted Building Code and inspection officials.

Applicant's Signature _____

Date _____

Permit Approved By: _____ Date: _____