SWIMMING POOL, SPA, & HOT TUB GUIDELINES

A. Adopted construction codes and installation requirements

- 1. 2021 edition of the International Pool and Spa Code
- 2. 2020 edition of the National Electrical Code

B. Permit Procedures

The Swimming Pool Contractor must apply for the Construction Permit by providing the following:

- Submit **two (2) pool design plans**; with each plan stamp approved by the electric underground utility company. Each plan must also include the installation design, depth of pool and location of equipment, per the above mentioned adopted codes.
- Submit two **(2) site plans** (a survey plat is required) showing the location of the pool with respect to the property lines, easements and house.
- Vent on pool heater shall terminate not less than 4 ft. below or 4 ft. horizontally from, nor less than 1 ft. above any door, operable window, or gravity air inlet into any building or less than 4 ft. from any property line except a public way.
- No part of pool, equipment or decks will be allowed in easements.

NOTE: Pool setbacks – side to PL = 3', rear to PL = 3', pool to house (one/one ratio = pool excavation depth at the point closest to house = pool setback distance.) All pool must be a minimum of 10' off any retaining wall over 3' tall, or an engineered letter must be provided.

Permit application must be filled out completely to include the following:

- 1. All applicable contractor information.
- 2. Subcontractors listed on permit must be licensed and currently registered with the City of Rockwall.
- 3. A **fence permit** must also be obtained if a new or reconstructed fence is to be installed.

C. Inspection Procedure

The following inspections can be requested online at http://www.rockwall.com/buildinginspections/inspectionreq.asp or by calling our inspection line at 972-771-7760. Any inspection request received after 7:30 AM will be scheduled for the next business day.

Information listed below must be provided when making an inspection request:

- Permit number (located in top right hand corner of permit application)
- Address
- Contractor name
- Type of inspection

Construction Site Requirements

- Erosion protection required.
- A four-foot (4') temporary fence must be in place at all times during construction until the permanent fence is installed.
- Streets and alleys must be kept free of mud and debris at all times.

Pool Layout Inspection

- Proper placement of the pool for setback requirements.
- Encroachment on easements.
- Inspection of permanent barriers (fences) around pools for compliance with the code.
- Safety alarm or self-closing devices on residence door will be inspected. (Refer
 to the 2021 International swimming pool and spa code. Barrier Requirements,
 Sec.305— copy attached). The resident must sign a certification document
 provided by the city, which states that this requirement has been met. This letter
 must be left with the blue permit card on the job site at the time of inspection.
 (Door alarm letter must be signed by the homeowner in front of a notary).
- Windows must be of tempered glass if bottom edge of glass is less than 60 inches above walking surface and within 60 inches horizontally of the water's edge.

No excavation work should be performed until all of the items listed above are completed and passed by the City.

Belly Steel Inspection

- Be sure setbacks are per the approved site plan before any excavation.
- Steel reinforcement inspection.
- Bonding shall be done on the belly steel inspection with a No. 8 or larger solid copper conductor around pool belly and looped a minimum of 4 times up to pool deck steel and fixtures.
- All 120 volt light fixtures shall be bonded with a No. 8 solid copper wire attached
 to the fixture housing lug. This wire should then be run parallel with the brass
 pipe and bonded to the pipe with a suitable clamp. Connection shall be made
 by exothermic welding or by pressure connectors or clamps

- that are labeled as being suitable for the purpose and are of the following materials: Stainless steel, brass, copper.
- Suction outlets shall be designed and installed in accordance with ANSI/APSP 7

P-Trap

Waste water is to be disposed of through a public sewer; a minimum of three
 (3) inch P-trap shall be required. The tailpiece from the trap shall extend a
 minimum of three (3) inches above finished grade and below finished floor
 grade of structure. Traps need not be vented when located on the exterior of
 the building. The connection between the filter waste discharge piping and the
 P-trap shall be made be means of an air gap.

Deck Steel Inspection

- Deck steel must be in place (min. #3 rebar on 18" centers) and properly supported with expansion material installed. Any decks placed on top of loose fill dirt will have footing dug around to prevent dirt from eroding from underneath.
- Common bonding grid as well as the brass pipe clamp must be visible! Any
 metallic material (handrails, slides, diving boards, etc.) must be grounded to
 the bonding grid with a #8 solid copper wire.
- A static water or air pressure test of not less than twenty -five (25) psi will be required on the deck steel inspection. Piping can be in a manifold and tested separate from equipment.

Final Inspection

- Grass, vegetation or approved means of erosion control must be in place at property lines and City property at alleys and parkways.
- All pool finals must be called in prior to plastering, all equipment shall be wired and ready for operation. Fence must be in place and meet all the requirements of attached appendix.

If you have any further questions, please call 972-771-7709.

2021 International Swimming pool and Spa Code

SECTION 305

Barrier Requirement

- 1. The top of the barrier shall be at least 48 inches (1219 mm) 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 (51 mm) 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 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 (102 mm).
- 2 Openings in the barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.
- Solid barriers, which do not have openings, such as masonry or stonewall, 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 (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 1.75 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

Exception: Boards with a minimum 60-degree angle, cut and placed at the top of the horizontal fence members, may be used on existing fences that will become pool barriers. This exception does not apply to fences adjacent to public right of way.

5. Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1.75 inches (44 mm) in width.

- 6. Maximum mesh size for chain link fences shall be a 2.25-inch (57 mm) 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 (44 mm).
- 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 (44 mm).
- 8. Access gates shall comply with the requirements of RAQ105.2, 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 (1372 mm) from the bottom of the gate, the release mechanism and openings shall comply with the following:
 - 8.1. The release mechanism shall be located on the pool side of the gate at least 3 inches (76 mm) below the top of the gate, and
 - 8.2. The gate and barrier shall have no opening greater than 0.5 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.
- 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/or its screen, if present, are opened. The alarm shall be listed in accordance with UL 2017. The audible alarm shall activate within 7 seconds and sound continuously for a minimum of 30 seconds after the door and/or its screen, if present, are 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. Deactivation shall last for not more that 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, which are approved by the governing body, shall be

- acceptable so long as the degree of protection afforded is not less than the protection afforded by Item 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 RAQ105.2, 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.

Fence barrier exceptions for spas or hot tubs:

Safety covers for spas and hot tubs must comply with ASTM F 1346-91.

- 1. There should be a means of fastening the safety cover to the hot tub or spa, such as key locks, combination locks, special tool, or similar devices.
- 2. The safety cover should have a label that provides a warning and message regarding the risk of drowning.
- 3. The cover should have been tested to demonstrate that it is capable of supporting the weight of one child (50 pounds) and one adult (225 pounds).
- 4. There shall be no openings in the cover itself or at any point where the cover joins the surface of the hot tub or spa that would not allow a 4-inch sphere to pass through.
- 5. Safety covers are to be installed in accordance with the manufacture's instructions.