



CITY OF RIVERBANK
DEVELOPMENT SERVICES DEPARTMENT - BUILDING DIVISION
6707 Third Street, Riverbank, CA 95367
P: 209- 863-7128 | F: 209-869-712
www.riverbank.org

SWIMMING POOL INSTALLATIONS

PLAN & APPLICATION SUBMITTAL

A minimum of two complete sets of wet signed or digital plans and calculations and one additional plot plan are required. The following must be included in the submittal:

A) PLOT PLAN – 3 copies 11x 17

1. The location of the pool – Show the distance from the pool to the property line from any buildings (*See zoning regulations below*)
2. The method of providing drainage. *The deck and the yard should be contoured to provide a drainage gradient of a least 1% toward approved drainage facilities (This is normally the street). Show the location & size of all deck drains, interceptor drains and drainage lines. Drainage lines must be sufficient to drain water that accumulates around the pool as well as rain water run-off from the roof onto the pool deck. (Table D-2 of the Uniform Plumbing Code, Appendix "D" using 2" of rainfall per hour can be used to calculate the size of drains needed). Drainage lines cannot be corrugated or flexible without prior Building Department approval.*
3. The location of pool equipment and distance from pool equipment to the neighbor's house (*See zoning regulations below*).
4. The location of any electrical outlets and the distance from the outlets to the pool. *All outlets must be GFCI protected and at least 20 feet from the pool. One outlet must be placed between 10' & 20' from the pool. – 680-6 NEC no outlets closer than 6 feet to pool wall.*
5. The location of any easements.
6. The size and volume of the pool.
7. The scale at which the plan is drawn.
8. The address where the pool is being constructed.
9. The location and type of fence or barrier that will be used.
10. Fences cannot be used as retaining walls for raised planter beds and pool decks.

8. STEEL OR CONSTRUCTION DRAWINGS

1. Supply address of job on drawings.
2. Wet signature or Digital of the engineer on drawings or approval by an approved listing company or organization such as the International Conference of Building Officials (ICBO).

C. STRUCTURAL CALCULATIONS – Wet signed by a licensed engineer.

Exception: #1. Pools listed by an approved testing firm such as ICBO.

#2. For above ground pools installed below grade, manufacturers literature stating conditions for below ground installations or generic engineering provided by the manufacturer is acceptable. Engineering for a specific location must be wet signed.

ABOVE GROUND POOLS

- 1) Items #1,3,4,5,6,8 & 9 of the plot plan submittal items must be provided.
- 2) Engineering may not be required. See exception #2 under structural calculations.

ZONING REGULATIONS

A private swimming pool or spa, as defined *, shall be subject to compliance with the following regulations:

1. Water-line of the pool or spa shall keep a minimum set-back of three (3-feet from the side or rear property lines.
2. Water-line of the pool or spa is required to keep a clear set-back of 5-feet from the main structure/patio cover.
3. The swimming pool or spa filtration equipment shall not encroach into the five (5) foot side or rear yard setbacks

*Swimming Pool or Spa means pool, pond, lake or open tank capable of containing water to a depth greater than one and one-half (1 ½) feet at any point.

POOL GLAZING REQUIREMENTS – R308.4.5, CA Residential Code

Glazing in walls and fences used as the barrier for indoor and outdoor swimming pools or spas shall be safety glazing meeting the requirements of section R308.4.5, CA Residential Code when all of the following conditions are present:

1. The bottom edge of the glazing is less than 60 inches above the pool side of the glazing
2. The glazing is within 5 feet of a swimming pool or spa water's edge.

ENCLOSURE / BARRIER REQUIREMENTS

A pool barrier must be installed meeting the requirements of Health & Safety Code Article 2.5, Section 115920 – 115925 as well as *City of Riverbank Zoning regulations* governing pool enclosures. Following is an abbreviated guideline of those requirements:

1. If a portion of the house or garage is used as part of the barrier, doors giving direct access to the pool area must have alarms. In place of alarms, doors may be equipped with self-closing, self-latching devices with release mechanisms placed no lower than 54" above the floor.
2. Alarms shall sound continuously for a minimum of 30 seconds immediately after the door is opened, and shall be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm may be equipped with a manual mean to temporarily deactivate for a single opening. The deactivation period shall last no longer than 15 seconds. The deactivation means shall be located at least 54" above the threshold of the door.
3. Any barrier / fence shall be a minimum of 60" above the ground and have a maximum distance of 2" from the ground to the bottom of the barrier. *Fences separating the pool from the neighbors or from the front or side yards must be a minimum of 72" above the ground.*
4. Any access gates through the enclosure shall open away from the swimming pool and be self-closing with a self-latching device placed no lower than 60 inches above the ground.
5. Gaps or voids in the barrier / fence shall not allow passage of a sphere equal or greater than 4".

6. The outside surface of the barrier / fence shall be free of protrusions, cavities or other characteristics that would serve as handholds or footholds that enable a child below the age of five years to climb over.
7. Covers used to satisfy the barrier / fence requirements shall meet all the requirements and performance standards of the American society for Testing and Materials (ASTM) standard F1346-91. Documentation shall be provided at the time of permit application.

INSPECTIONS

To schedule inspections, call the inspection recorder at (209) 869-6286. The inspection request must be made before 2 :30 P.M. the day prior to the requested inspection day. The name of the firm or individual requesting the inspection, the address where the inspection is to be made, the permit number and the type of inspection that is requested. *Please note city offices are closed every other Friday.*

THE FOLLOWING INSPECTIONS ARE REQUIRED:

A) POOL STEEL & LOCATION - At this inspection the following will be checked:

1. Distance of pool from house (5') and property lines (minimum 3' to property lines)
2. Water lines – (pump to 50 lbs. – 609.4 UPC)
3. Gas line, if applicable – (pump to 15 lbs. – gauge shall be 1/10- pound increments or less)
4. Location of pool equipment (5' from property line)
5. Underground electrical
6. Grounding of pool steel, diving board, wet niche (light), bonding (REC 680.26)
7. The pool steel for conformance with plans. (ties normally every other bar for 12" bar spacing & every third bar for 6" bar spacing)

B) POOL DECK – At this inspection the following will be checked:

1. Thickness of the pool deck.
2. Grounding to wire mesh or any metal within 60" of the pool decks.
3. Drainage and drain lines.
4. Clearance from the siding or stucco to the pool deck (2" minimum required)

C) PRE-PLASTER & POOL FINAL - The following will be checked:

1. Pool fence/barrier - door alarms
2. GFCI receptacle
3. Pool equipment - grounding & installation
4. Pool electrical - Breaker electrical panel, equipment connection
5. Wet niche fixture
6. Drainage
7. Glazing (R308.4.5 CRC)
8. Clearance from deck to siding or stucco

D) LINER & ABOVE GROUND POOLS - The following must be inspected if applicable:

1. GFCI receptacle. Pool light grounding (if installed).
2. Ground of diving boards and rails
3. Ground to motor (pool equipment)
4. Breaker size @ main panel
5. Anchorage of motor
6. Specifications on approved plans
7. Site plan clearances and conditions
8. Glazing (R308.4.5 CRC)

FACTS AND FIGURES ON CHILD DROWNINGS*

In some of the nation's sunbelts, drowning has been the leading cause of accidental death in the home of children under 5 years old.

Each year, nationwide, more than 300 children under 5 years old drown in residential swimming, pools, usually a pool owned by their family. In addition, more than 2,000 children in that age group are treated in hospital emergency rooms for submersion injuries. Medical costs for submersion victims during the initial hospitalization alone can be quite high. Costs can range from an estimated \$2,000 for a victim who recovers fully to \$80,000 for a victim with severe brain damage. Some severely brain damaged victims have initial hospital stays in excess of 120 days and expenses in excess of \$150,000.

Following are just a few facts uncovered by the US Consumer Product Safety Commission (CPSC) in a comprehensive study of drowning and submersion incidents involving children under age 5 years old in Arizona, California, and Florida.

- Seventy-five percent of submersion victims studied by CPSC were between 1 and 3 years old; 65 percent of this group were boys. Toddlers, in particular, often do something unexpected because their capabilities change daily.
- *At the time of the incidents, most victims were being supervised by one or both parents.* Forty-six percent of the victims were last seen in the house; 23 percent were last seen in the yard or on the porch or patio; and 31 percent were in or around the pool. In all, 69 percent of the children were not expected to be at or in the pool, yet they were found in the water.
- Submersion incidents involving children usually happen in familiar surroundings. Sixty-five percent of the incidents happened in a pool owned by the child's family and 33 per cent of the incidents happened in a pool owned by friends or relatives.
- *Pool submersions involving children happen quickly. A child can drown in the time it takes to answer a phone. Seventy-seven percent of the victims had been missing from for 5 minutes or less.*
- Survival depends on rescuing the child quickly and restarting the breathing process, even while the child is still in the water. Seconds count in preventing death or brain damage.
- *Child drowning is a silent death. There's no splashing to alert anyone that the child is in trouble. (**The above information was copied from US CONSUMER PRODUCT SAFETY COMMISSION publication No. 359)*

DECLARATION – EXIT ALARMS

I am the property owner of _____, in Riverbank, California.

I have read *The Swimming Pool Safety Act*, and understand the provisions contained therein.

I hereby declare that an exit alarm(s) meeting the provisions of *The Swimming Pool Safety Act* have been installed on each door providing direct access to the pool. I further declare that I have checked the alarms and found them to be in full compliance with all provisions of *The Swimming Pool Safety Act* relating to exit alarms.

I hereby declare that I have received a copy of *Facts and Figures on Child drowning handout provided to us by the City of Riverbank*.

Property Owner (please print)

Property Owner (please print)

Signature

Signature

Date

Date

DECLARATION – ANTI-ENTRAPMENT COVER

The property located at _____ has: (check all that apply)

- Swimming Pool Spa/Hot Tub Wading/Toddler Pool

There is an anti-entrapment cover meeting current standards of the American Society for Testing and Materials (ASTM) or the American Society of Mechanical Engineers (ASME) installed and certified prior to final inspection.

Under penalty of perjury, I acknowledge that I have read and understand *The Swimming Pool Safety Act* and that the above is true and correct.

Signature

Print Name

Date

Relationship to project -

- Owner Agent for Owner Licensed Contractor Agent for Licensed Contractor

If Licensed Contractor or Agent for Licensed Contractor is checked, please complete the following:

Company Name

Contractor License Number

INSTALLATION CERTIFICATION

For the project located at _____; I hereby certify that an anti-entrapment cover meeting current standards of the American Society for Testing and Materials or the American Society of Mechanical Engineers has been installed properly.

Signature

Print Name

Date

Relationship to project -

- Owner Agent for Owner Licensed Contractor Agent for Licensed Contractor

If Licensed Contractor or Agent for Licensed Contractor is checked, please complete the following:

Company Name

Contractor License Number