



CITY of NORCO

BUILDING and SAFETY DIVISION
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SWIMMING POOLS / SPAS STATE OF CALIFORNIA BUILDING CODE

This handout is designed to assist you in preparing your building plans for submittal to the City of Norco. Plans will not be accepted for plan review unless the items listed on this handout are included.

The current model codes currently adopted by the City of Norco are the 2007 California Building Codes

Three (3) complete sets of plans must be submitted. The plans must be drawn to scale on substantial paper exactly as the building is to be constructed. Defaced, incomplete, indefinite or faded plans will not be approved. All plans are to be blue printed or inked drawings. Plans must consist of the following:

SUBMITTAL REQUIREMENTS:

1. **Swimming pool** structural sheet must be wet stamped and signed (**2 sets**);
2. Details that are to be used from structural sheet shall be circled indicating intended use, details not intended to be used shall be crossed out. Steel schedule shall be highlighted indicating soil type, superimposed loads and depth of pool, etc.
3. Minimum **3 sets** of plans to include:
 - a) Full plot plan (**not just rear yard**) showing lot dimensions, setbacks, easements and fence locations.
 - b) Method of compliance with City's 5' fence requirement completely encircling pool;
 - c) Size of house electrical service;
 - d) Source of pool electrical power (main or sub-panel). Submit load calcs for sub-panel.
 - e) Statement that pool feeder will be in rigid conduit.
4. **Spa** – Show spa location/setbacks to property line and electrical detail.
5. **Waterfalls**- Show waterfall location and height.

SETBACK REQUIREMENTS

1. Spa (in-ground) or Swimming pool (above ground or in-ground):
 - a) 5' minimum to property line and
 - b) 5' minimum to house.

2. Equipment with/without heater:
 - a) 5' minimum to property line and
 - b) 5' minimum to house, or per manufacturer's specifications.
 - c) Heaters not to be located on side yards with 5' set-back

GENERAL NOTES/COMMENTS

1. City Business Licenses are required for all contractors and subcontractors providing work on the building or site.
2. All persons preparing plans for others shall sign those plans and if licensed, shall note their license number. Business & Professions Code 5536.1. Wet signature required.
3. Provide at least five feet between the pool and any lot line or structure.
4. Specify and show the location of the five-foot or higher fence completely surrounding the pool; the self-closing and latching gates & doors; and, if proposed, approved alternates to the self-closing and latching doors of any house wall forming part of the fence.
5. Show pool heater at least five feet from property line and five feet from any window.
6. Specify on the plans that the pool heater has an easily accessible on/off switch mounted on the outside of the heater that turns the heater on and off without the need to relight the pilot light or change the thermostat setting.
7. Specify on the plans that the pool heater has a permanent weatherproof plate or card that provides easily readable instructions for the energy efficient operation of the swimming pool and for the proper care of swimming pool water when a swimming pool cover is used.
8. Specify on the plans that the pool heater has a length of plumbing (36-inch minimum) between the filter and the heater to allow for the possible future addition of solar heating equipment.
9. Specify on the plans that the pool heater has a thermal efficiency of at least 75 percent and that the heater is so labeled or identified.
10. Specify on the plans that an outdoor pool equipped with a heater is also equipped with a pool cover.
11. Specify on the plans that time clocks will control the pool circulation pump so that the pump can be set to run in the off-peak electric demand period and for the minimum time necessary to maintain the water in a clear and sanitary condition. Specify this time in minutes or hours and minutes.
12. Specify on the plans that the pool will be equipped with directional inlets which adequately mix the pool water to prevent stratification of the heated supply water and the colder existing water.

ELECTRICAL REQUIREMENTS

1. Note on plans that the feeder to the pool equipment panel will be run in conduit. NEC 680-25(d).
2. Show location on plans of GFCI outlet located between 10 feet and 20 feet of pool edge. NEC 680-6.
3. Pool light must have a metallic or nonmetallic raceway.
4. Where rigid nonmetallic conduit is used, a No. 8 insulated copper conductor shall be installed. Junction boxes shall be located 4 feet minimum from pool and 8 inches minimum above flood level or ground level, whichever is greater.
5. Pool light branch circuit to be G.F.C.I. protected.
6. Light fixtures closer than 5 feet horizontally from pools edge shall be a minimum of 12 feet above water level. Overhead electrical and communication lines shall be shown on plans if they occur. Indicate height and horizontal distances from edge of pool.
7. Electrical conduit may be PVC plastic, schedule 40, below grade. It must be a minimum of 18 inches deep (or 4 inches deep when covered with concrete). Must be U.L. listed conduit. Above ground, may be PVC plastic schedule 80 sunlight resistant, or rigid galvanized steel.

POOL & SPA FENCE REQUIREMENTS

1. Fence must be at least 5' in height
2. Any openings, holes or gaps in fence cannot exceed 4" measured horizontally, except doors or gates.
3. Gates or doors in the fence must be self-closing and self-latching. Latches must be installed a minimum of 54" above the ground or be accessible from outside the fence. The latching mechanism must keep gate/door securely closed when not in use.
4. The fence must completely surround pool/spa
5. A house wall may be used as part of the fence. Doors or other exit openings may be in the house wall provided one or a combination of the following protection methods is used (after approval of the Chief Building Official):
 - a) Any doors or other exit openings in the house wall comply with the gate/door requirements above, or
 - b) An audible alarm is installed on all exits in the house wall, or
 - c) A dome is installed over the pool/spa, or
 - d) A safety-type cover, either manual or automatic is installed.

**CHECKLIST OF POOL/SPA REQUIREMENTS
(THESE ITEMS ARE CONSIDERED PART OF POOL/SPA NOTES)**

1. Five foot minimum to property line and house
2. Vacuum breaker on fill line
3. Fence and gate enclosing pool/spa per NMC
4. Alarms on sliding doors which access pool/spa area per NMC
5. Piping must be buried in earth; no embedment in gunite
6. Pool equipment panel feeder run in conduit
7. GFCI outlet 10' to 20' from pool
8. J-boxes 8" minimum above grade or water line
9. Minimum bond #8 to all metal, including deck and pool rebar
10. All glazing less than five feet from pool must be tempered.

FOR HEATERS:

1. Exhaust minimum of 48" from windows, doors and property lines
2. Heater not to be located on side yards with a 5' setback
3. No pilot light
4. Readily accessible on/off switch on outside
5. Permanent, easily readable, weatherproof instruction card
6. Minimum 36" of pipe between heater and filter
7. Pool cover
8. Directional inlets that mix pool water
9. Pump timer set for off-peak electrical demand times
10. Homes constructed with a drive-thru garage are required to have pool area fenced.