City of Palos Verdes Estates
Swimming Pool & Spa Standard Requirements List

Plan Check # ____________________________ Date ____________________________

Address ________________________________________________________________

Comments/Notes ____________________________________________________________________________________________

Approvals REQUIRE PLANNING AND ART JURY APPROVAL

Grading
1. Indicate amount of cubic yards of cut and/or fill for pool/spa
2. Show all existing and new contours
3. Show all elevations pertinent to pool/spa
4. Planning Commission review required
5. ___Geology report ___Soils report ___Minimum - soils site review required

Plumbing
1. Pool to be plumbed for future solar heating (Title 24)
2. Directional water inlet required to prevent stratification of the heated supply water and the colder existing water. (Title 24)
3. 3” P-Trap required for all swimming pools and spas. Indicate location and route to sewer
4. Provide a sediment trap for the gas appliance per section 512.4 of the 2009 Uniform Swimming Pool, Spa & Hot Tub code

Electrical
1. All outdoor receptacles to have ground fault interrupter (G.F.C.I.)
2. Rigid conduit is required for all underground installations
3. 125 V receptacle required 10 to 20 feet from pool
4. Indicate that all metal items within 5’ of water’s edge of the pool shall be bonded.
5. A minimum conductive surface area of 9 sq in. shall be installed in contact with the pool, outdoor spa, or outdoor hot tub structure water. This water bond is permitted to consist of metal parts that are bonded in 680.26(B).
Mechanical

1. Show location of pool/spa heating equipment (Title 24)
2. Weatherproof plate on heater that provides instructions for the energy
efficient operation of the swimming pool. (Title 24)
3. Heater to have on/off switch on heater. (Title 24)
4. 75% thermal efficiency required for gas heater. (Title 24)
5. Pool cover required (Title 24)
6. Time clock required for equipment (Title 24)
7. Note on plans: **Manufacturer’s heater specifications to remain on job
   with approved plans for rough mechanical inspection.**

Fence, Gate & Alarms

1. Pedestrian walkway access gates shall meet minimum fence height requirements
   of 5’ (60”) minimum per local ordinance.
2. All gates shall be self-closing and have a self-latching device. The release
   mechanism of the self-latching device shall be located not less than 60” from the
   bottom of the gate: (1) The release mechanism shall be located on the swimming
   pool side of the barrier, (2) A maximum vertical clearance from the ground to the
   bottom of the enclosure of 2”, (3) Gaps or voids, if any, are not to allow a sphere
   equal to or greater than 4” in diameter to pass through, (4) Any outside surface
   shall be free of protrusions, cavities or other physical conditions that would serve
   as a handhold or foothold that could enable a child to climb over.
3. Provide audible door alarms for all or any doors that have direct access to the pool
   or spa, per the 2010 CBC section 3109.4.4.2 or one of the other seven
   requirements within this section.

Structural

1. Expansive soil design required.
2. On standard pool/spa plans, cross out details that do not apply to the job.
3. Provide structural calculations.
4. Plans/calculation must follow 2009 Uniform Swimming Pool, Spa & Hot
   Tub Code.
5. Plans shall be wet stamped by licensed designer and soils consultant.
6. Provide a note on Plan that a Deputy Inspector will be required at and during
   the gunite process.

Bldg/poolreq adopted 1-2011
I, the undersigned, hereby certify that I am the owner and occupant of the above referenced property or the acting agent for the owner/occupant. I further certify that smoke alarms and carbon monoxide alarms are present and functional in all the following locations (Note: All boxes below must be checked; retrofit detectors may be battery operated.)

- Smoke Alarms and Carbon Monoxide Alarm shall be located: On the ceiling or wall outside of each separate sleeping area in the immediate vicinity of bedrooms and hallway.
- Smoke Alarms: In each room used for sleeping purposes.
- Smoke Alarm and Carbon Monoxide Alarm: In each story, including any habitable basement. (Note: In dwellings or dwelling with split levels and without an intervening door between the adjacent levels, a smoke alarm and a carbon monoxide detector installed on the upper level shall suffice for the adjacent lower level provided that the lower level is less than one full story below the upper level.)

Signature: ___________________________ Date: ___________________________
POOL AND SPA ANTI-ENTRAPMENT COVER CERTIFICATION

Revisions to the California Health & Safety Code Section 115920, known as the Swimming Pool Safety Act, came into effect January 1, 2007. Section 115928, subsection (d) states that “whenever a building permit is issued for the remodel or modification of a single family home with an existing swimming pool, toddler pool, or spa, the permit shall require that the suction outlet of the existing swimming pool, toddler pool or spa be upgraded so as to be equipped with an antientrapment cover meeting current standards of the American Society for Testing and Materials (ASTM) or the American Society of Mechanical Engineers (ASME).”

For homes that have a swimming pool, toddler pool, or spa, the anti-entrapment device must be installed prior to final inspection approval. For homes that do not have a swimming pool, toddler pool, or spa we request that the owner so declare on this form.

Building Permit #: ______________________

Property address: ______________________

I am the Property Owner and certify that: (CHECK APPROPRIATE BOX BELOW)

☐ The property does not have a swimming pool, toddler pool or spa.

☐ The property has a swimming pool, toddler pool or spa and I hereby acknowledge that an anti-entrapment suction cover meeting the current standards of the American Society for Testing and Materials or the American Society of Mechanical Engineers is installed at the swimming pool, toddler pool, and/or spa located at the above referenced address; in accordance with the revisions made to the Pool Safety Act as outlined above.

Property Owner’s Signature: ______________________ Date: ____________

Please print name: ______________________

ATTENTION PROPERTY OWNER:
PLEASE PRESENT THIS COMPLETED FORM TO THE BUILDING INSPECTOR PRIOR TO THE FINAL INSPECTION
Pool and Spa Heating Systems requirements

§114(a): Systems and Equipment.
☐ 1. Heater has a thermal efficiency that complies with the Appliance Efficiency Regulations.
☐ 2. Has a readily accessible on-off switch mounted outside of the heater.
☐ 3. Weatherproof plate or card containing operating instructions for the pool or spa heater.
☐ 4. No electric resistance heating except for listed package units that has fully insulated enclosures and tight fitting covers that are insulated to at least R-6. Or if documentation is provided that at least 60% of the annual heating energy is from site solar energy or recovered energy.
☐ 5. Heating system has no pilot light.

§114(b): Installation.
☐ 1. System is installed with at least 36” of pipe between the filter and heater, or dedicated suction and return lines, or built-in or built-up connections for future solar heating.
☐ 2. A cover for outdoor pools or spas that have a heat pump or gas heater.
☐ 3. Pool system has directional inlets to adequately mix the pool water.
☐ 4. Time switch which will allow the pump to be set or programmed to run during off-peak periods only.

§150(p) Pump Sizing and flow rate specification
☐ 1. The pump specified is listed in the CEC database of certified pool pumps.
☐ 2. The pump flow rate shall be calculated based on pool sizing table below.
☐ 3. The pump is capable of operating at 2 or more speeds (not applicable if pump is less than 1 horsepower).
☐ 4. Each auxiliary pool load is served by either a separate pump, or the system is served by a multi-speed pump.

Pool sizing (Values are based on a maximum allowable turnover rate of 6-hours)

<table>
<thead>
<tr>
<th>Max Pool Volume (gallons)</th>
<th>Min Pipe D or Greater (inches)</th>
<th>Min Filter Area or more (square feet)</th>
<th>Max Pump Flow (gpm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Return</td>
<td>Suction</td>
<td>Cartridge</td>
</tr>
<tr>
<td>13,000</td>
<td>1.5</td>
<td>1.5</td>
<td>100</td>
</tr>
<tr>
<td>17,000</td>
<td>1.5</td>
<td>2</td>
<td>130</td>
</tr>
<tr>
<td>21,000</td>
<td>2</td>
<td>2</td>
<td>160</td>
</tr>
<tr>
<td>28,000</td>
<td>2</td>
<td>2.5</td>
<td>210</td>
</tr>
<tr>
<td>42,000</td>
<td>2.5</td>
<td>3</td>
<td>320</td>
</tr>
<tr>
<td>48,000</td>
<td>3</td>
<td>3</td>
<td>360</td>
</tr>
</tbody>
</table>

Note: For pumps greater than 1 hp. The maximum Pump Flow is the lowest speed default filtration

☐ 5. Calculated volume of pool__________ (gallons).
☐ 6. Return Pipe Diameter_____________ (inches).
☐ 7. Suction Pipe Diameter_____________ (inches).
☐ 8. Filter Type______________________ (Cartridge, Sand, DE).
System Piping

☐ 1. The suction side pipe is straight for at least 4 pipe diameters before entering the pump (See table below for the required straight run lengths for various pipe sizes).

☐ 2. The design uses low pressure drop fittings (sweep90's)

<table>
<thead>
<tr>
<th>Pipe Diameter (inch)</th>
<th>Required Pipe Length leading into pump (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>6</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>2.5</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>12</td>
</tr>
</tbody>
</table>

Filtration Equipment

☐ 1. If a backwash valve is used: The diameter of the backwash multi-port valve is 2 inches or as large as the circulation pipe, whichever is greater

DECLARATION STATEMENT

- I certify under penalty of perjury, under the laws of the State of California, the information provided on this form is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for construction, or an authorized representative of the person responsible for construction (responsible person).
- I certify that the installed features, materials, components, or manufactured devices identified on this certificate (the installation) conforms to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcement agency.
- I reviewed a copy of the Certificate of Compliance (CF-1R) form approved by the enforcement agency that identifies the specific requirements for the installation. I certify that the requirements detailed on the CF-1R that apply to the installation have been met.
- I will ensure that a completed, signed copy of this Installation Certificate shall be posted, or made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a signed copy of this Installation Certificate is required to be included with the documentation the builder provides to the building owner at occupancy.

Company Name: (Installing Subcontractor or General Contractor or Builder/Owner)

<table>
<thead>
<tr>
<th>Responsible Person's Name:</th>
<th>Responsible Person's Signature:</th>
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</table>

<table>
<thead>
<tr>
<th>CSLB License:</th>
<th>Date Signed:</th>
<th>Position With Company (Title):</th>
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</thead>
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