

Application Submittal Requirements

The following information and documents must be included in your pool/spa or water feature permit application. For additional information, the Southern Nevada Pool Code is available on-line at www.co.clark.nv.us/development_services/bldg_codes/03pool.pdf

1. Site Plan

Property lines.

Existing construction.

- Buildings; including residence, patio covers, sheds, carports, garages, etc. Show all glazing within 5-feet of the water's edge. Show all doors leading from the residence to the pool.
- Equipment.
- Fences, gates, etc., including height.
- Retaining walls, including height, sloped soils and high side.
- Utilities such as electrical and sewer lines when above, below or near the pool, spa and/or water feature.
- Septic system within 25-feet of pool, spa and/or water feature and its piping.

New construction

- Pool, spa and/or water feature.
- Dimensions of pool, spa and/or water feature.
- Dimensions locating the pool, spa and/or water feature.
- Section through the pool, spa and/or water feature showing construction and depths.
- Pool amenities such as diving boards and slides.
- Hand holds where the water is 12-inches or more below the deck or coping of the pool.
- Ladders, stairs, steps and recessed treads.
- Decks, seats, etc.
- Pool, spa and/or water feature lighting.
- Waste water piping and drain.

Access barrier.

- Wall or fence construction materials and height.
- Gate material, screening and latching.

Safety device. One of the following must be provided; indicate choice on the plans.

- Self-closing and self-latching device on all doors from residence to pool or spa with the release mechanism mounted at least 54-inches above the floor.
- An alarm on all doors from residence to pool or spa.
- Laser or light beam perimeter alarm to isolate the pool, spa and/or water feature.
- Additional fence barrier to isolate the pool, spa and/or water feature from the residence.
- Power safety cover.
- Other means of protection when approved by the building official.

Pool equipment.

- Heaters, pumps, filters, etc.
- Other amenities such as a barbecue, fire pit, etc.
- Gas line size, length, gas demand and material.

Site drainage.

2. Structural Calculations and details.

- Required for all concrete pools, spas and/or water features.
- Required for any prefabricated pool, spa and/or water feature when required by manufacturer or when less than 5-feet from any building or structure.
- Must be sealed and signed by a Nevada civil or structural engineer.

3. Electrical Load Calculations when utilizing more than one pump motor.

4. Access Letter if access is other than through own front yard.

5. Geotechnical Report to be submitted with permit application or at completion of excavation. If submitted at completion of excavation, the structural engineer must submit verification that the report has been reviewed and the structural calculations and details comply with the requirements of the report.

- Required unless specifically identified as outside special geological consideration zone.
- Signed and sealed by an appropriate Nevada registrant.

Inspection Requirements

Your permit will list a number of inspection types. The following list provides information regarding what will be reviewed for each inspection type and when each inspection type should be scheduled. The guideline is divided into two categories: site-built and prefabricated pools, spas and water features. This is a guideline and may not reflect all conditions.

Concrete and site built pools, spas and water features.

Concrete and site built pools and spas typically require the inspector to visit the site for three groups of inspections. These visits will include more than one inspection type.

First Inspection Visit

1657 Water Feature Steel

- If required.

1660 Pool Bonding

- #8 solid copper conductor bonded to pool steel, light niche, diving jig, handrail, slide, metal fence, pool equipment pad and all metal within 5-feet of the water's edge with listed connectors (brass or stainless steel).

1661 Pool Water Pressure Test

- Plumbing pipes pressure tested to twenty pounds.

1662 Pool UG Gas

- Gas pipe to appropriate burial depth, yellow tracer wire with polyethylene pipe and proper transition fittings, line sized as required.

1665 Pre Gunite

- All plumbing and electrical lines complete to equipment pad. Bedding material to be free of all abrasive material. 3-inches of base and 4-inches of cover is required. Bedding material shall be in place with fittings open for inspection.
- Approved plans and permit (all pages) on site.
- Check if geotechnical report is required. If required, check for compliance to report.
- Rebar and bond beam installed per plans. Clearances, surcharges and water feature per plans.

- Check for access letter, if required.
- Check required setbacks.
- Verify all electrical rigid nonmetallic conduits above grade are schedule 80.
- Pool plumbing in place with a minimum of two suction entries per pump placed a minimum of 36-inches apart or installed on different planes.
- Pool light niche installed and bonded to pool rebar or fiber optic conduits installed.
- Indirect drain with trap in place (when required).
- Check location of underground and overhead power lines/raceways.

Second Inspection Visit

1675 Pre Plaster

- Permanent barriers in place, 5-foot minimum height measured from exterior of property.
- Operable self-closing and self-latching gate opening outward from enclosed area.
- Pool equipment anchored in place with equipment pads 3-inches above grade. Heater pad to extend beyond heater to prevent foliage from entering.
- Gas heaters installed per manufacture's requirements with a minimum 4-foot clearance from an operable window, door or property line.
- Pool light, wet niche conduits to be continuous to listed junction box. Conduit seal, strain relief, and #12 green insulated grounding conductor back to panel. Verify height of junction box above deck and/or flood level of pool.
- #8 insulated green conductor (solid or stranded) from light niche bonding lug (potting compound on lug) to listed and labeled junction box.
- Anti-siphon devices on hose bibs, manual fills, or automatic fills (pressure type) installed and at proper height.
- Bonding of all electrical components associated with the pool water circulating system (pool panel excepted) with #8 solid copper conductor.
- Panels labeled to reflect any circuit changes.
- Check blower height and support.

Second Inspection Visit Con't

- All metal objects over 4-inches in any dimension within 5-feet of waters edge to be bonded including diving boards, hand rails, ladder supports, slides, metal patios, etc.
- Overcurrent protection and disconnecting means for electrical components.
- Verify GFCI installation and the location for receptacles, lights, electric pool cover motors, accessory equipment and pool lights.
- Verify all electrical rigid nonmetallic conduits above grade are schedule 80.
- Verify required working clearance in front of pool panel (30" wide by 36" deep) per electric code.
- Continuous raceway from main panel to pool panel with conductors installed.
- Working clearance for mechanical equipment.
- Access pathway to all new and existing equipment a minimum of 24-inches wide.
- Check raised pool areas for handhold requirements (epoxied handholds required every 48-inches when height of raised bond beam is 12" above water).
- Safety glazing for all glass within 5-feet of waters edge unless bottom of glass is more than 5-feet above walking surface.
- 1 ½" hose connection for pool drainage.
- Check required egress from pool and spa with complying steps when required.

1673 Interior Safety Devices

- Pool and spa safety requirements (door devices and alarm systems) need to be verified by the building inspector.

1676 Pool Gas Test

- 60# test for polyethylene, 10# test for threaded steel pipe

Final Inspection Visit

1679 Final Pool

- UV protect all plastic plumbing pipe (paint).
- Anti-siphons in place and operable with freeze protection.
- Labeling complete.
- Equipment functional with proper clearances.
- All bonding secured.

Final Inspection Visit (Con't)

- Check pool yard for required drainage away from structures to front yard top of curb (Type "A" drainage). Refer questionable drainage to Building Department.
- Verify that all GFCI's are operational.
- Permanent barriers in place, operable self-closing and self-latching gate.
- Lot drainage in place and equipment protected from water ponding.
- Pool lights working.
- Adequate handhold or bench for elevated bond beam.
- Gas tag issued at pool final.

Prefabricated pools, spas and water features.

First Inspection Visit

1650 Pre-Back Fill

- Same requirements as listed in first site-built inspection visit except for rebar. Temporary or permanent barrier in place. In addition call-in 1660 and 1661. Schedule 1662 if required.

1655 Pre-Deck

- Same requirements as listed in second site-built inspection visit except pool deck is not installed and shell anchor system is open for inspection. In addition schedule 1673 and 1676 if required.

Final Inspection Visit

1679 Final Pool

- Same requirements as listed in final inspection for site-built pools and spas.

Commercial pools and spas

Commercial pools and spas, such as those in hotels, apartments, condominiums, etc. also require approval of plans by the Clark County Health District prior to submittal.

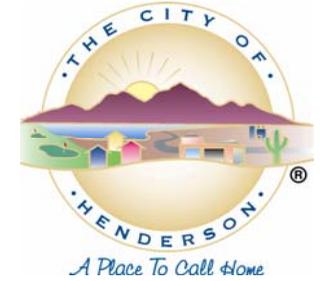
For more information call the

City of Henderson
Development Services Center
240 Water Street
Henderson, Nevada 89015
Phone 702-267-3600
Fax 702-267-3603



James B. Gibson, Mayor
Jack K. Clark, Councilman
Amanda M. Cyphers, Councilman
Andy A. Hafen, Councilman
Steven D. Kirk, Councilman

Philip D. Speight, City Manager
Mark T. Calhoun, Assistant City Manager
Bonnie Rinaldi, Assistant City Manager
Michael Bouse, Building and Fire Safety Director



Pools, Spas and Water Features Guidelines

**The How To Guide for
Pool, Spa and
Water Feature
Permits and Inspections**

