HENDERS

Patio Cover, Deck and Balcony Residential

City of Henderson

Application Submittal Checklist

Development Services Center

Please use this checklist and the supporting detail to assure that your permit submittal includes all the information necessary for a timely review of your plans. All applications for permits **must** be submitted electronically through the DSC Online Portal <u>dsconline.cityofhenderson.com</u>.

Please apply through DSC Online as a <u>Residential Patio Cover/Deck Permit</u>.

PDF Standards for Electronic Plan Submittals

Submittal Package:

The following documentation must be included when submitting the building permit application for review and all applicable building and residential codes must be listed on the plans.

- Completed <u>Building Permit</u> or <u>Residential Patio Cover/Deck Application and Site Plan</u>.
- Complete Plan Set (signed and sealed by the registered design professional)

Plan Contents – General Information

Plans must contain the following minimum content requirements. This list is not intended to be all inclusive of every detail required on a set of Patio Cover plans. Rather, it is provided to give an overview of the basic plan contents needed for the review of plan sets.

_ Cover Sheet

Include general project information, such as: address, location map. Cover sheet must have a legend of symbols and abbreviations used throughout the plan set.

Plans must be stamped by Southern Nevada Health District (SNHD) only if:

• If there is an active septic system on the property

Plan Contents - Structural

_ Structural or Engineering

- 4 Seasons ESR #1953
- Amerimax ESR #1398
- Duralume IAPMO #195
- B-102 Light Roofing (Clark County Approved Standard)
 - Must include a copy of the County Wide Approved Drawing B-102
- B-103 Heavy Roofing (Clark County Approved Standard)
 - Must include a copy of the County Wide Approved Drawing B-103
- Site specific (custom design)
 - $\circ~$ Must be signed and sealed by the registered design professional.

Structural plans shall be digitally stamped and signed if designed by an engineer.

Structural calculations

• The structural calculations and details must be signed and sealed by a Nevada civil or structural engineer and shall be digitally stamped and signed.

Plan Contents – Site Plan

Site plan must include:

- Must be signed by the designer.
- Project address
- Nevada State Contractors License Number [if applicable]
- Locations of all buildings, structures, pools etc.
- Setbacks to property line and separation to other structures
 - Cover/Deck to left in linear feet (LF)
 - Cover/Deck to right in linear feet (LF)
 - o Cover/Deck to back in linear feet (LF)
 - o Cover/Deck to front in linear feet (LF)
- Patio Cover/Deck dimensions
 - Maximum Height
 - o Maximum Length
 - Maximum Width
 - o Area of Patio Cover/Deck (square footage)
- Post Attachment information
 - \circ Number of posts and location of posts shall be shown on the site plan.
 - Maximum post spacing (measured on center)
 - Post attachment location
 - On slab (new or existing)
 - On footings
 - Footing size (length, width & depth)
 - Number of footings
- Patio Cover/Deck Attachment location
 - Fascia (Aluminum covers only)
 - o Wall
 - o Free Standing
- Patio Cover Style
 - o Lattice
 - o Solid
 - Combo (lattice and solid)
 - o Insulated
- Custom Finishes or Accessories
 - \circ Stucco or stone veneer

Plan Contents - Electrical

Electrical drawings if completed by a Nevada Licensed Engineer shall be digitally stamped & signed.

- Provide a one-line-diagram that includes:
 - All raceway sizes and types
 - o Conductor sizes and types
 - Equipment and device information

- AC and DC grounding
- Electrical components
 - Lights
 - Ceiling fans
 - Outlets and switches

Electrical load calculations

- Must be signed by preparer
- <u>Residential Electrical Load Calculation Worksheet</u> or designer's form.

Plan Contents – Stairs (if applicable)

ST-1 Provide structural design for all stairways including calculations by a structural engineer including construction and all connection details complying with IRC Section R311.7, including stair treads and risers, handrails, headroom, handrail height, handrail grip size and stair width. *The City of Henderson no longer allows stairs to be deferred submittals.*

ST-2 Provide a floor or landing at the top and bottom of the stairs. The landing shall be at least as wide as the stairs and shall be a minimum of 36-inches in direction of travel. Irregular shaped landings shall be not less than that of a quarter of a circle, with the radius equal to the required landing width. The landing may be deleted at the top of an interior stair, including in a garage, if a door does not swing over the stairs. (IRC R311.7.6)

ST-3 The minimum width of a stair shall be as follows: (IRC R311.7.1)

- 36-inches clear width above the handrail height to 80-inches above the nosing,
- \circ 31¹/₂-inches clear width below the handrail when a handrail is on one side only, and
- 27-inches clear width below the handrail height when handrails are provided on both sides of the stairway.

ST-4 A flight of stairs shall not have a vertical rise larger than 12-feet 7-inches between floor levels or landings. (IRC 311.7.3)

ST-5 Provide a minimum of 80-inches clear headroom measured vertically from a sloped line adjoining tread nosing. Note that the opening in the floor above, at the sides of a stair, may extend a maximum of 4^{3} /4-inches into stair width. (IRC 311.7.2)

ST-6 The maximum riser height shall be $7\frac{3}{4}$ -inches. (IRC R311.7.5.1)

ST-7 Open risers with an opening of more than 4-inches are not allowed on stairs with a rise of more than 30-inches. (IRC R311.7.5.1)

ST-8 The minimum stair tread depth shall be 10-inches. The tread depth shall be measured horizontally between the vertical planes of the foremost projection of adjacent treads and at a right angle to the tread's leading edge. (IRC R311.7.5.2)

ST-9 The greatest tread depth within any flight of stairs shall not exceed the smallest by more than $\frac{3}{8}$ inch. (IRC R311.7.5.2)

ST-10 Provide structural design for spiral stairways including calculations by a structural engineer including construction and all connection details complying with the following: (IRC R311.7.10) *The City of Henderson no longer allows stairs to be deferred submittals.*

- minimum 26-inches clear width at and below the handrail,
- \circ minimum 6³/₄ inches tread depth at 12-inches from the narrower edge,
- \circ the rise shall be no more than 9½-inches,
- \circ $\;$ all treads shall be identical, and a
- minimum 78-inch headroom.

ST-11 Winder treads shall have: (IRC R311.7.5.2.1)

- a minimum tread depth of 10-inches measured between the vertical planes of the foremost projection of adjacent treads at the intersections with the walk-line.
- \circ a minimum tread depth of 6-inches at any point within the clear width of the stair.

ST-12 Handrails shall be provided on not less than one side of each flight with four or more risers. (IRC R311.7.8)

ST-13 Handrails shall be between 34-inches and 38-inches vertically above the stair nosing. Volutes, turnouts, etc. are allowed over the bottom tread. Transitions between flights, to guards, etc. may exceed the maximum height. (IRC R311.7.8.1)

ST-14 Handrails for stairways shall be continuous for the full length of the flight, from a point directly above the top riser of the flight to a point directly above the lowest riser of the flight. Handrail ends shall be returned or shall terminate in newel posts or safety terminals. (IRC R311.7.8.2)

ST-15 Provide 1¹/₂-inch clearance from handrail to wall surface. (IRC 311.7.8.3)

ST-16 Provide a detail of the handrail profile showing compliance with handrail Type I or Type II or equivalent grasp ability. (IRC Section R311.7.8.5)