THIS CHECKLIST IS TO BE USED AS A GUIDE WHEN PREPARING PLANS FOR RESIDENTIAL SWIMMING POOLS AND/OR SPAS. NOTE: ALL REFERENCES WERE TAKEN FROM THE 2018 MESA SWIMMING POOL AND SPA CODE, THE 2017 NATIONAL ELECTRIC CODE AND THE CURRENT ZONING ORDINANCE.

1. Provide a fully dimensioned site plan, drawn to scale, including lot dimensions, location of all structures on the lot, location of pool and/or spa, pool equipment, fences, gates, all existing windows and doors with access to pool/spa area and easements.

2. Show dimensions from water’s edge to all property lines. Water’s edge must be at least 4’ from any property line. Mesa Zoning Ordinance 11-30-11

3. Show dimensions from water’s edge to all structures. Provide structural calculations for pool wall when water’s edge is less than 4’ from any structure.

4. Show dimensions from water’s edge to adjacent windows or glass doors. Glass within 5’ from water’s edge must be tempered and identified as such.

5. All metal within 5’ of the water’s edge must be bonded.

6. Show location of electrical service entrance and overhead electrical lines (if any). All overhead wires or service drops, telephone lines, etc. must be a minimum height of 22.5’ from the surface of the water’s edge.

7. Identify locations of all existing electrical outlets. Electrical outlets must be a minimum of 6’ from water’s edge protected by a GFCI (ground fault circuit interrupter). NEC 680.22 (A)

8. Pool equipment must be located a minimum of 5’ from water’s edge.

9. Pool, spa and/or pool equipment shall not be located within a Public Utility Easement (PUE).

10. Locate any gas or LP equipment/heater at least 4’ from any operable window.

11. If LP tanks are being installed, identify location and size of the LP tanks. LP tanks are to be installed per Mesa detail (attached).

12. If natural gas is being used for the equipment/heater, provide the BTU load for all existing appliances (or a list of all existing appliances) and the BTU load for the new equipment/heater.

13. Provide a gas line installation detail for new equipment/heater. Detail must include size and type of material, depth of piping and the length of gas line run from gas meter to equipment/heater.
14. Water supply must be protected from backflow. ISPSC 302.5

15. Decks shall be slip resistant and cleanable. ISPSC 306.2

16. Identify location of hose bib. ISPSC 306.9.1

17. Provide/identify suction entrapment avoidance complying with APSP7. 310.1

18. Show compliance with pool/spa barrier. Compliance can be met by one of the following methods. Identify on plans which method will be used to provide compliance.

1. Barrier around the pool.

   a) Top of the barrier shall not be less than 5’ above grade, measured from the outside of the barrier.

   b) The barrier shall not be closer than 4’ to a property line.

   c) The vertical clearance between grade and the bottom of the barrier shall not exceed 2” for grade surfaces that are not solid, such as grass or gravel.

   d) The vertical clearance between a surface below the barrier to a solid surface, such as concrete, and the bottom of the required barrier shall not exceed 4”.

   e) Openings in the barrier shall not allow passage of a 4” in diameter sphere.

   f) Solid barriers that do not have openings shall not have indentations or protrusions that could form handholds or footholds.

   g) A mesh fence barrier must be installed per the manufacturer’s installation instructions and; the bottom of the mesh fence shall not be more than 1” above the deck; the maximum vertical clearance from the bottom of the mesh fence and the solid surface shall not permit the fence to be lifted more than 4” from grade or decking; the fence shall not allow passage of a 4” in diameter sphere to pass under the panel; the attachment device shall attach each barrier section at a height not lower than 45” above grade; and patio deck sleeves such as vertical post receptacles that are placed inside the patio surface shall be of a nonconductive material.

   h) When the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45”, the horizontal members shall be located on the pool/spa side of the fence. Spacing between vertical members shall not exceed 1 ¾” in width.

   i) Chain link fencing cannot have openings greater than 1 ¾” and the mesh shall not be less than 11 wire gauge.

   j) Barriers composed of diagonal members shall not have openings formed by the diagonal members greater than 1 ¾” and the angle of the diagonal members shall not be greater than 45 degrees from the vertical.
k) Barriers must be a minimum of 36" from any permanent structure or equipment that could be used to climb the barrier.

l) The pool/spa side of the barrier shall not be less than 20" from the water's edge.

m) Gates within the barrier shall comply with the following:
   1. Must open outward away from the pool.
   2. Shall be self-closing and self-latching.
   3. Shall be equipped to accommodate a locking device.
   4. Gates not intended for pedestrian use shall remain locked.
   5. Double/multiple gates shall have not fewer than one leaf secured in place and the adjacent leaf shall be secured with a self-closing device. The gate and barrier shall not have openings greater than \( \frac{1}{2} \)" within 18" of the latch release mechanism.
   6. Latches less than 54" from grade shall be located on the pool/spa side of the gate and not less than 3" below the top of the gate and the gate/barrier shall not have openings greater than \( \frac{1}{2} \)" within 18" the release mechanism.

2. Structure as a wall barrier. Where a wall of a dwelling or structure serves as part of the barrier and where doors and/or windows provide direct access to the pool/spa through that wall, one of the following shall be required.

a) Operable windows having a sill height of less than 48" above the indoor finished floor and doors shall have an alarm that produces an audible warning when the window, door or their screens are opened. The alarm shall be listed and labeled as a water hazard entrance alarm in accordance with UL 2017. The audible alarm shall activate within 7 seconds and sound continuously for a minimum of 30 seconds after the door, and/or screen if present, are opened and be capable of being heard throughout the house during normal household activities. The alarm shall automatically reset under all conditions. The alarm system shall be equipped with a manual means, such as touch pad or switch, to temporarily deactivate the alarm for a single opening. Deactivation shall last for not more than 15 seconds. The deactivation switch(es) shall be located at least 54" above the threshold of the door.

b) Multi panel sliding doors or walls shall meet the requirements of ISPSC 305.4 or shall be secured in place by a permanent fastening method that requires a tool to remove. If a sliding glass door or panel is the only door to the pool area it shall meet the requirements of ISPSC 305.4.2.

3. A safety cover that is listed and labeled in accordance with ASTM F1346 is installed for the pool/spa.