



MEDFORD

BUILDING SAFETY

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DEPARTMENT
www.ci.medford.or.us

CITY OF MEDFORD
LAUSMANN ANNEX
200 SOUTH IVY STREET
MEDFORD, OREGON 97501

TELEPHONE (541) 774-2350
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E-Mail:
building@cityofmedford.org

Swimming Pool Submittal Guidelines

Application:

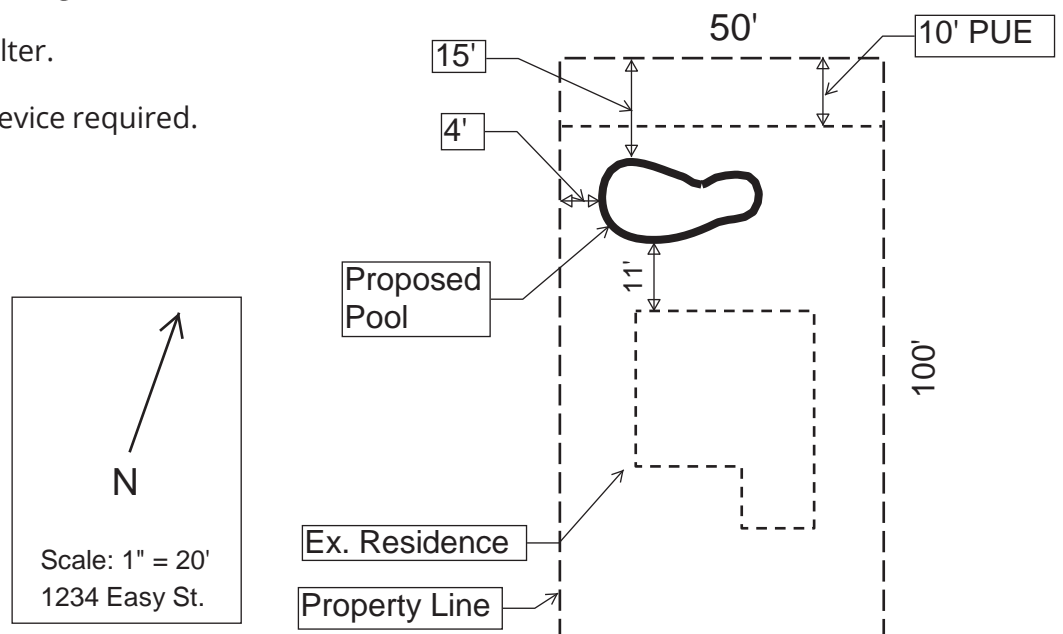
Complete Building Permit Application, and include all applicable information.

Site Plan (see example below):

1. Draw all the elements of the site plan to scale (i.e. 1" = 20').
2. Identify on the site plan any utility easements.
3. Identify setbacks from property lines and other structures.
4. Show the location of mechanical equipment.
5. Address.
6. North Arrow.
7. Site and pool construction documents shall be a minimum 11x17. Engineering calculations and geotechnical reports may be 8.5x11.

Pool Type: In-ground or above ground

1. Depth.
2. Sand or Cartridge filter.
3. Heated.
4. Auto fill/backflow device required.



** Fencing will require additional permit if it exceeds 7' in height. Barrier Requirements must be met and completed for final inspection.*

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Swimming Pool Safety

The following are safety items that we check for when performing a final inspection on a swimming pool:

Fences/Barriers:

- The top of barrier must be a minimum 48" above grade, measured from the side of the barrier that faces away from the swimming pool.
- The maximum gap between the grade and bottom of barrier shall be 2".
- Openings in the barrier shall not allow passage of a 4" diameter sphere.
- Solid barriers, such as block walls, shall not contain indentations or protrusions, which could make them climbable.
- Where there are horizontal and vertical members and the distance to the top of the horizontal members is less than 45", the horizontal members shall be located on the swimming pool side of the fence. Spacing between the vertical members shall not exceed 1 $\frac{3}{4}$ ". Where there are decorative cutouts within vertical members, spacing between the cutouts shall not exceed 1 $\frac{3}{4}$ " in width.
- Where there are horizontal and vertical members and the distance between the tops of the horizontal members is 45" or more, spacing between vertical members shall not exceed 4". Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 1 $\frac{3}{4}$ " in width.
- Maximum mesh size in chain link fence is 2 $\frac{1}{4}$ " or slats which reduce opening size to max. 1 $\frac{3}{4}$ ".
- Maximum opening in diagonal members (i.e. lattice, etc.) is 1 $\frac{3}{4}$ ".

Gates:

- Pedestrian access gates shall open outward and be equipped w/a self-latching and self closing device.
- Access gates (other than pedestrian) shall be equipped to accommodate a locking device.
- Where the release mechanism is located less than 54" high, the release mechanism shall be located on the pool side of the gate at least 3" below the top of the gate and the gate and barrier shall have no opening greater than $\frac{1}{2}$ " within 18" of the release mechanism.

Dwellings Exiting Into Pool Area:

- Where a wall or dwelling serves as part of the barrier, one of the following conditions shall be met:
 1. The pool shall be equipped with a power safety cover in compliance with ASTM F1346 as

2. Other means of protection, such as self-closing doors with self-latching devices on doors opening away from the pool area; or
3. Door alarms must be installed on all doors only non-side hinged doors are eligible for alarms. Side hinged doors shall be self closing and self latching.

Exterior Electrical Outlets:

- All exterior electrical outlets shall have ground-fault circuit-interrupter (GFCI) protection per NEC 210.8, and shall be "WR" (weather resistant) rated per NEC 406.9.
- Not required per 406.12 OESC.



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POLICY ON TEMPORARY FENCES REQUIRED DURING SWIMMING POOL CONSTRUCTION

Section 3306.9 of the OSSC requires protection of pedestrians adjacent to excavations; this includes requirements designated by the Building Official.

Due to the potential for injury resulting from excavations for swimming pools, the Medford Building Safety Department requires a 4-foot high temporary or permanent fence around all excavations for swimming pools separating the pool for the public. This is a requirement designated by the Building Official. The fence shall be capable of withstanding wind loads as required by Chapter 16 of the Structural Specialty Code, or Chapter 3 of the Oregon Residential Specialty Code. The temporary fence shall remain in place until a permanent fence has been constructed. Both Medford Code section 9.511 and Oregon Residential Specialty Code Appendix G include construction requirements for permanent pool fences.

Sam D. Barnum
Building Safety Director

Pool Setback From Foundation

	12" Spread Footing at 12" Depth	16" Spread Footing at 18" Depth	24" Spread Footing at 24" Depth	Stacked Type Retaining Wall Above Pool (Assuming no S (feet))
H (feet)	S (feet)	S (feet)	S (feet)	S (feet)
4'	4.6	4.2	4.0	5.33
5	5.9	5.5	5.3	6.66
6	7.25	6.8	6.7	8
7	8.6	8.2	8.0	9.33
8	9.9	9.5	9.3	10.66
9	11.25	10.9	10.7	12
10	12.6	12.2	12.0	13.33

S = Setback from structure to water (pool edge)

t/2 H = Excavation Depth

H/3 = Required footing setback from edge of spread footing to

surface of slope d = Footing depth

w = Spread footing width

t = Foundation wall thickness

$$\text{Formula: } S = H + H/3 - d + (w - t)/2$$

$$= 4/3H - d + (w - t)/2$$

Note: The shape of the bottom of the pool may reduce the required setback. The over-riding factor is that the excavation does not extend beyond the 45-degree line. Also, the required setback numbers in the table above may be reduced by 1 foot for every foot the footing is deepened. The pool must be engineered if it does not meet the proper setbacks.

