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Swimming Pool Plan Review (105 CMR 435.000) *June, 2025*

Type of Pool: ☐ Swimming ☐ Wading ☐ Special Purpose
Pool Use: ☐ Public ☐ Semi-Public ☐ Indoor ☐ Outdoor
Plan Submission ☐ New ☐ Remodel

Name of Establishment/Facility: _____

Address: _____ Tel #: _____

Owner Name: _____

Home Address: _____ Tel#: _____

Construction Company Name: _____ Contact: _____

Address: _____ Tel #: _____

Construction Start Date: _____ Planned Pool Opening Date: _____

Effective January 1, 1999 the pool supervisor of all public and semi-public swimming pools shall have successfully completed a course in safe and effective operations and maintenance of swimming pools evidenced by a Certified Pool Operator license from an accepted program, subject to the approval of the Board of Health. **CPO:** ☐ Yes ☐ No

Plans submitted under stamp and signature of MA. Registered Professional Engineer or architect. ☐ Yes ☐ No

Pool Specifications:

Length _____ Width _____ Depth of Pool _____ to _____
(Minimum 15 feet) (Minimum 15 feet Under 6 feet deep)

Volume (gallons) _____ Total Sq. Ft of Pool _____ Total Cu. Ft. of Pool _____

435.16 Source of Water: _____

Trim & Finish: Pool Walls & Bottom _____

Decking: Type _____ Minimum Width _____

MECHANICAL INFORMATION

435.06 Circulation rate (gal per min) _____

Turnover rate (in hours) _____

- A. Swimming Pools – Once every eight (8) hours
B. Wading Pools – Once every four (4) hours
C. Special Purpose Pools – Once every half (1/2) hour

435.06 Filters: Type _____

Total Filter area (Sq Ft) _____

Backwash rate(gpm) _____

- A. Pressure or gravity sand – 3 gal. per min. per sq. ft.
B. High Rate Sand – 15 gal. per min per sq. ft.
C. Diatomaceous Earth – 1.5 – 2.0 gal. per min per sq. ft.
D. Cartridge – 375 gal. per min per sq. ft.

Chlorinator: Type: _____

Capacity: _____

Chemical Feeders: _____ Capacity (lbs) _____ Quantity: _____

Automatic chlorinators provided shall have a feed rate of at least three (3) pounds of chlorine per 10,000 gallons per 24 hours for outdoor pools and at least one (1) pound of chlorine per 15, 000 gallons per 24 hours for all indoor pools.

☐ Yes ☐ No

The equipment of the recirculation and purification system shall include:

A. A filtration system ☐ Yes ☐ No

B. Recirculation pumps ☐ Yes ☐ No

C. Hair and lint strainers ☐ Yes ☐ No

D. Provision for Chemical feed ☐ Yes ☐ No

E. Provision for bactericidal treatment ☐ Yes ☐ No

F. Filter effluent flow meter or meters ☐ Yes ☐ No

G. Balancing or float control tank or above rim fill spout ☐ Yes ☐ No

H. Test kit (s) will be available to meet the requirements of 105 CMR 435.29 and must be capable of distinguishing free residual chlorine and combined chlorine. ☐ Yes ☐ No

I. All other equipment necessary to make the particular treatment process complete and efficiently operable.

☐ Yes ☐ No

435.27 Size: Swimming Area (Sq Ft) _____ (over 5 feet)

Non-Swimming Area (Sq Ft) _____ (5 feet or less)

Diving Area (Sq Ft) _____ (Reserve 300 sq. ft. around each diving board.)

Maximum Pool Capacity (persons) _____
(Bather Load)

- 15 Sq. Ft. Non-Swimming area per person
20 Sq. Ft. Swimming area per person
10 Sa. Ft. Special Purpose Pool

435.08 How many **submerged inlets** for uniform circulation _____

The spacing of the return inlets shall not be greater than 20 feet on center. In no case there be less than two such inlets per 600 square feet, or fraction thereof. The total velocity through the inlets shall not exceed 15 per second. ☐ Yes ☐ No

Does the pool have a balancing or float control tank? ☐ Yes ☐ No

Does the pool have an **over the rim fill spout** located not to create a hazard or automatic water make up fill system?

☐ Yes ☐ No

Outlet provided at the deepest point of the pool? ☐ Yes ☐ No

Two (2) required for pools more than 30 feet wide ☐ Yes ☐ No

Outlet anti-vortex in design or outlet opening with non-removable grate four (4) times the area of discharge pipe. Outlet cover can only be removed with use of tools. ☐ Yes ☐ No

A minimum of two suction outlets shall be provided for each pump in the suction outlet system, separated by a minimum of three feet or located on two different planes. ☐ Yes ☐ No

All special purpose and wading pools shall by July 1, 1998 install an emergency shut-off pump switch, in an accessible location, prominently marked and within plain site at the special purpose or wading pool. ☐ Yes ☐ No

Outlet piping design capacity is equal to the recirculation pump capacity. ☐ Yes ☐ No Size _____ Velocity _____

435.10 Type of Skimming Facilities

Skimmers: Weir Length _____ Number _____

Skimmers or overflow system capable of recirculating 50% of the pool water from the top surface of the pool?

☐ Yes ☐ No

In wall skimmer(s) provided for each 500 sq. ft. of pool surface area. ☐ Yes ☐ No

In wall skimmer(s) provided for each 100 sq. ft. of special purpose pool surface area. ☐ Yes ☐ No

In wall skimmer capable of 20 gallons per minute per lineal foot of weir and a flow through rate of at least 30 gallons per minute. ☐ Yes ☐ No

435.03 Hose connections provided for flushing down bathhouses, dressing rooms and pool decks? ☐ Yes ☐ No

Adequate storage space provided for janitorial and pool equipment? ☐ Yes ☐ No

Adequate lighting provided in all parts of the bathhouse, dressing rooms, toilets and pool room (s). ☐ Yes ☐ No

Adequate ventilation provided for room(s) housing indoor swimming pools, bathhouses, dressing rooms, shower rooms, and toilet rooms? ☐ Yes ☐ No

Acoustical properties of rooms housing indoor swimming pools designed with materials to reduce reverberation of sound? ☐ Yes ☐ No

Adequate enclosure provided to prevent animals and unauthorized persons from entering outdoor pool area (a six (6) foot high fence in accordance with MGL c. 140 & 206.) ☐ Yes ☐ No

Adequate enclosure provided to prevent unauthorized persons from entering indoor pool area? ☐ Yes ☐ No Is a locking mechanism in place? ☐ Yes ☐ No

Sanitary drinking water facilities provided. ☐ Yes ☐ No

435.05 No projections except ladders and grab rails permitted from any pool wall or floor surface. ☐ Yes ☐ No

The finish of the pool walls and floors shall be of light color. ☐ Yes ☐ No

435.11 Pool slopes shall not exceed one (1) foot vertical in twelve (12) feet horizontal. ☐ Yes ☐ No

Maximum water depth of special purpose pools shall be four (4) feet measured from the waterline. ☐ Yes ☐ No

Maximum depth of any seat or bench in a special purpose pool shall be two (2) feet. ☐ Yes ☐ No

The walls of pools used for competitive swimming shall remain vertical for a minimum water depth of three (3) feet, six (6) inches. ☐ Yes ☐ No

The maximum radius of covering shall be twelve (12) inches in depth from three (3) feet to four (4) feet six (6) inches. ☐ Yes ☐ No

At depths greater than four (4) feet six (6) inches, the radius of coving joining the wall and floor at any point shall be equal to not more than the depth of the pool at that point minus two (2) feet six (6) inches. ☐ Yes ☐ No

435.12 Water depth markings required on the pool deck and on the vertical pool walls at one-foot depth intervals in the shallow portion of the pool and then at the appropriate places of not more than 25 feet intervals around the deep portion of the pool. ☐ Yes ☐ No

A polyethylene line with floats shall separate the Non-Swimming area from the deeper water. ☐ Yes ☐ No

All swimming pools constructed or drained after the effective date of these regulations shall have the boundary line between the shallow and deep areas marked with a four (4) inch stripe of contrasting color on the floor and walls of the pool. Ledges and step edges shall also be marked with a four (4) inch stripe of contrasting color.

☐ Yes ☐ No

435.13 Walkways shall be constructed of slip resistant materials continuous around the pool with a minimum width of four (4) feet sloped $\frac{1}{4}$ inch per foot toward adequate drains. ☐ Yes ☐ No

435.14 There shall be a minimum of two (2) ladders or step holes and one additional ladder or step holes for every 75 feet of swimming pool perimeter with handrails to enter or exit the pool. ☐ Yes ☐ No

435.15 Diving boards shall be rigidly constructed, properly anchored and covered with a Non-slip material.

☐ Yes ☐ No

No diving board or platform more than ten feet above the pool water level shall be permitted for general public use in any public swimming pool. ☐ Yes ☐ No

At least thirteen (13) feet of free unobstructed headroom, eight (8) feet behind and to each side, and sixteen (16) feet ahead of the front of the diving board shall be provided. ☐ Yes ☐ No

One meter diving boards or platform shall have at least thirty (30) inch guardrails that extend to the edge of the pool wall.

☐ Yes ☐ No

Diving boards or platforms higher than one meter shall have thirty-six (36) inch guardrails that extend to the edge of the pool. ☐ Yes ☐ No

The minimum water depth for deck type diving boards shall be eight (8) feet, six (6) inches. ☐ Yes ☐ No

Verify diving bowl specifications in Appendix B, Diagram II. ☐ Yes ☐ No

The minimum water depth for one (1) meter boards shall be nine (9) feet. ☐ Yes ☐ No

Verify diving bowl specifications in Appendix B, Diagram I. ☐ Yes ☐ No

The minimum water depth for three (3) meter boards shall be eleven (11) feet, six (6) inches. ☐ Yes ☐ No

Verify diving bowl specifications in Appendix B, Diagram I. ☐ Yes ☐ No

435.26 Pool waste and backwash water properly disposed. ☐ Yes ☐ No

Diatomaceous earth filter backwash water must be discharged through a separation tank. ☐ Yes ☐ No

435.33 A thermostatic control for water temperature shall be provided for special purpose pools and only accessible to the pool operator. ☐ Yes ☐ No

PUBLIC SWIMMING POOL REQUIREMENTS

435.03 Separate dressing and sanitary facilities for each sex provided. ☐ Yes ☐ No

Bathers shall be so routed that the crossing of street shoes and wet barefoot traffic is kept to a minimum. ☐ Yes ☐ No

Showers provided with hot and cold running water (one (1) for each forty (40) bathers). ☐ Yes ☐ No

Toilets provided for each sex (one (1) for each forty (40) bathers, for males, urinals may be substituted for one third (1/3) of the required number). ☐ Yes ☐ No

Washbasins provided adjacent to toilets (one (1) for each sixty (60) bathers). ☐ Yes ☐ No

Designated room provided and equipped for emergency care of sick or injured bathers (cot, blanket, and first aid kit).

☐ Yes ☐ No

Comments/Special Requirements:

STATEMENT: I certify that the above information is correct and understand that if any changes are made in the above information without permission from the Medford Board of Health Inspections may nullify this approval.

Signature: _____ Title: _____

Date: _____

Office Use Only

Final Approval By: _____ Date: _____

Title: _____