



# CITY OF MARLBOROUGH

## BOARD OF HEALTH

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### SWIMMING/SPECIAL POOL PLAN REVIEW (105 CMR 435.000)

The following pages may be filled out online and then printed and signed.

Name of Facility: \_\_\_\_\_

Address: \_\_\_\_\_

Pool is: New ( ) Remodeled ( )

Owner: \_\_\_\_\_

Construction Start Date: \_\_\_\_\_

Pool Opening Date: \_\_\_\_\_

Plans submitted under stamp and signature  
of Mass. Reg. Professional Engineer

Yes ( )

No ( )

Type of Pool:

Public ( )

Semi-Public ( )

Width of Pool \_\_\_\_\_ (ft) x Length of Pool \_\_\_\_\_ (ft) = Area of Pool \_\_\_\_\_ (sq.ft.)

Area of Pool \_\_\_\_\_ (sq.ft.) x Avg. Depth of Pool \_\_\_\_\_ (ft) = Vol. of Pool \_\_\_\_\_ (cu.ft.)

Vol. of Pool \_\_\_\_\_ (cu.ft.) x 7.48 = Vol. of Pool \_\_\_\_\_ (gal.)

Source of Water \_\_\_\_\_

#### 435.06 Turnover Rate (GPM)

Design Turnover Rate \_\_\_\_\_

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 Type of Filtration System** \_\_\_\_\_

Square Footage of Filter Surface Area \_\_\_\_\_

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 gal. per min. per sq. ft. ( )

D. Cartridge – 0.375 gal. per min. per sq. ft. ( )

Automatic chlorinators provided and 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 flowmeter 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**

Non Swimming Area (5ft. depth or less):

Lgth: \_\_\_\_\_ ft. x Wdth: \_\_\_\_\_ ft. = Area: \_\_\_\_\_ sq.ft

Swimming Area (over 5 ft. depth):

Lgth: \_\_\_\_\_ ft. x Wdth: \_\_\_\_\_ ft. = Area: \_\_\_\_\_ sq.ft

Diving Area (Reserve 300 sq. ft. around each diving board): = Area: \_\_\_\_\_ sq.ft

15 Sq. Ft. Non-Swimming Area per person

20 Sq. Ft. Swimming Area per person

Special Purpose Pool requires 10 sq.ft. per person.

Area of Special Purpose Pool: \_\_\_\_\_sq.ft.

Maximum Bather Load \_\_\_\_\_

**435.08 How many submerged inlets for uniform circulation:** \_\_\_\_\_

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

Does the pool have an over the rim fill spout located  
under the diving board or adjacent to a ladder not  
to create a hazard?

Yes ( ) No ( )

Outlet provided at deepest point of pool. Yes ( ) No ( )

Outlet anti-vortex in design or outlet opening with  
non-removable grate four (4) times the area of the  
discharge pipe.

Yes ( ) No ( )

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

Outlet piping design capacity equal to the recirculation  
pump capacity

Yes ( ) No ( )

Size \_\_\_\_\_ Velocity \_\_\_\_\_

**435.10 Type of Skimming facilities:**

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 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.	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 pool area (a six (6) foot high fence in accordance with MGL C.140 & 206).	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 pool walls and floors shall be of light color.	Yes ( )	No ( )

**435.11**

Pool slopes shall not exceed one (1) foot vertical  
in 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 3 feet six  
(6) inches. Yes ( ) No ( )

The maximum radius of coving shall be twelve (12) inches  
at depths from three (3) feet to four (4) feet six (6) inches Yes ( ) No ( )

At depths greater than four feet six 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 feet six 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 appropriate  
places of Not more than 25 foot intervals around the deep  
portion of the pool. Yes ( ) No ( )

A polyethylene line with floats shall separate the Non-  
swimming area from deeper water. Yes ( ) No ( )

4" stripe of contrasting color on walls and floor to  
separate shallow and deep areas. Yes ( ) No ( )

4" stripe of contrasting color on ledges and step edges. 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 ¼ 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 each 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 feet of free and unobstructed headroom, eight feet behind and to each side, and sixteen feet ahead of the front of the diving board shall be provided.

Yes ( ) No ( )

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

Yes ( ) No ( )

Diving boards or platforms higher than one meter shall have 36 inch guardrails that extend to the edge of the pool.

Yes ( ) No ( )

The minimum water depth for deck type diving boards shall be 8 feet 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 11 feet 6 inches.

Yes ( ) No ( )

Verify diving bowl specifications in appendix B, diagram I.

Yes ( ) No ( )

**435.26**

Pool waste and backwash water properly disposed of

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 40 bathers). Yes ( ) No ( )

Toilets provided for each sex (one (1) for each 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  
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 ( )

**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 Board of Health may nullify this approval.

Applicant's Signature: \_\_\_\_\_

Applicant's Home Address: \_\_\_\_\_

Applicant's Phone Number: \_\_\_\_\_ Date: \_\_\_\_\_

Final Approval By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_