



BOARD OF HEALTH

100 MAPLE AVENUE

SHREWSBURY, MASSACHUSETTS 01545-5398

Telephone: 508-841-8384

POOL PLAN REVIEW (105 CMR 435.000) – FEE: \$250.00 – please make check payable to: Town of Shrewsbury

Public _____ Semi-Public _____ Indoor _____ Outdoor _____ New _____

Swimming Pool _____ Wading Pool _____ Remodeled _____ Special Purpose Pool _____

Name of Facility: _____
Address: _____
Owner: _____
Telephone: _____
Email Address: _____
Construction Start Date: _____ 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 the safe and effective operations and maintenance of swimming pools evidenced by certifications as a Pool Operator from the YMCA, the National Swimming Pool Foundation, or from any other organization providing equivalent training subject to the approval of the Department. Yes _____ No _____

Plans submitted under stamp and signature of Mass. Reg. Prof. Engineer or architect. Yes _____ No _____

Width of Pool _____ Length of Pool _____
Minimum 15 feet Under 6' Deep Minimum 15 feet

Depth of Pool _____ to _____

Volume of Pool in Gallons _____ Total Square Feet of Pool _____ Total Cubic Feet of Pool _____

435.06 Turnover Rate (GPM)

Design 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 Type of Filtration System _____

Square Footage of Filter Surface Area _____

- A. Pressure or gravity sand – 3 gallon per minimum per square feet
- B. High Rate Sand – 15 gallon per minimum per square feet
- C. Diatomaceous Earth – 1.5 – 2.0 gallon per minimum per square feet
- D. Cartridge - .375 gallon per minimum per square feet

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 equivalent of the recirculation and purification system shall include:

A. A filtration system Recirculation pumps

Yes _____ No _____

B. Hair and lint strainers

Yes _____ No _____

C. Provision for chemical feed

Yes _____ No _____

D. Provision for bactericidal treatment

Yes _____ No _____

E. Filter effluent flowmeter or meters

Yes _____ No _____

F. Balancing or float-control tank or above-rim fill spout 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 _____

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

Yes _____ No _____

435.27 Non Swimming area square footage _____ (5 feet or less)

Swimming area square footage _____ (over 5 feet)

Diving area _____ (Reserve 300 square feet around each diving board)

Maximum Bather Load _____

15 Square Feet Non-Swimming area per person

20 Square Feet Swimming area per person

10 Square Feet Special Purpose Pool

435.08 How many submerged inlets for uniform circulation _____

The spacing of the return inlets shall be not 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 feet 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 of automatic water make up fill system?

Yes _____ No _____

Outlet provided at deepest point of 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 game four (4) times the area of the 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 pool shall, by July 1, 1998, install an emergency shut off pump switch, in an accessible location, prominently marked and within plain sight at the special purpose or wading pool.

Yes _____ No _____

Outlet piping design capacity equal to the recirculation pump capacity.

Yes _____

No _____

Variety _____

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 square feet of pool surface area. Yes _____ No _____

In wall skimmer(s) provided for each 100 square feet of special purpose pool surface area. Yes _____ No _____

In wall skimmer(s) 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. 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 _____

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 feet 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 _____
- 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-inch stripe of contrasting color on the floor and walls of the pool. Ledges and step edges shall also be marked with a four-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 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 board 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 board 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 board specifications in appendix B, diagram I. Yes _____ No _____
- 435.26 Pool waste and backwash water properly disposed of.** 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 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_____

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 Division of Health Inspections may nullify this approval.

Signature:_____ **Title:**_____

Preliminary Review by:_____ **Date:**_____

Title:_____

Final Approval By:_____ **Date:**_____

Title:_____