

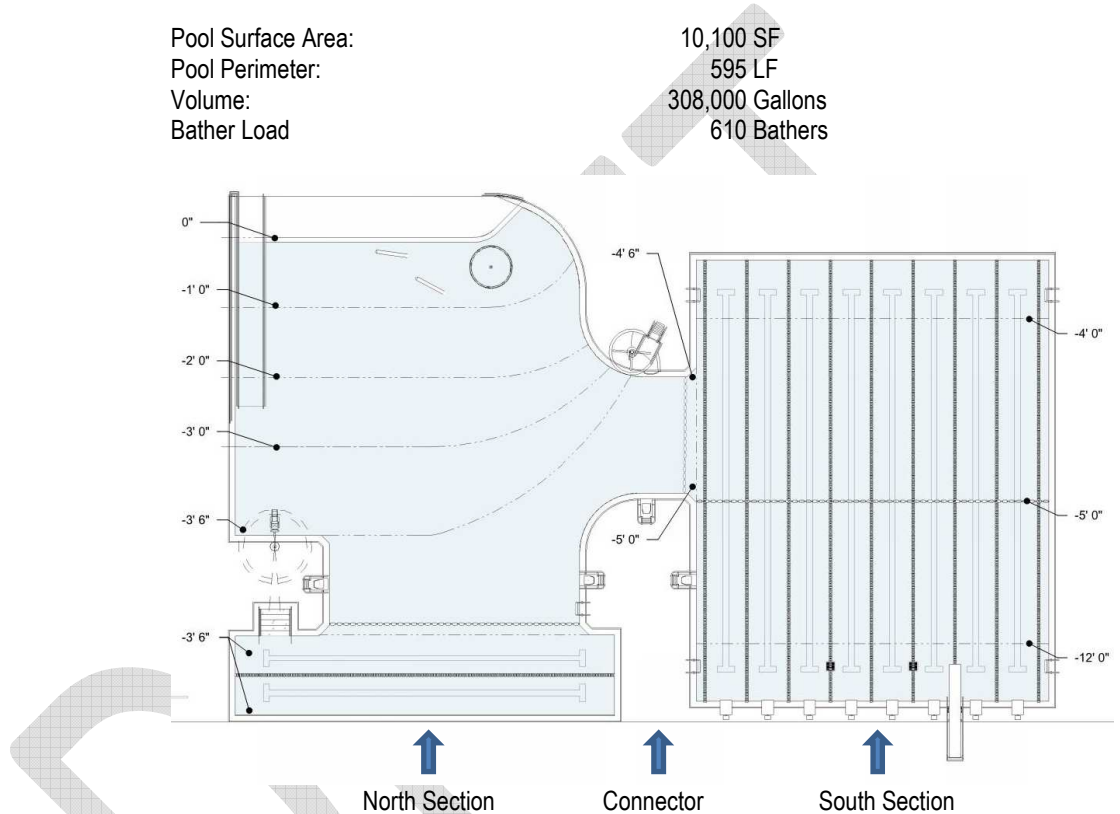
## Project Highlights

### Swimming Pool

#### General

The proposed swimming pool is a single body of water with two defined areas. The north section of the pool is designed for recreation and exercise, the south section is designed for competitive swimming, general lap swimming, recreational diving and swimming. The connection between the pool serves as a splashdown area for a water slide.

Pool Surface Area:	10,100 SF
Pool Perimeter:	595 LF
Volume:	308,000 Gallons
Bather Load	610 Bathers



#### North Section

- The north section of the pool slopes from deck level to 4 feet.
- Accessible Ramp located at zero depth entry and discharges into 30 inches of water.
- Water features will be located in the zero depth area. Surface sprays at the entry, larger features in the 0 to 1 ft. zone.
- Features will be located and selected to allow access to the ramp and zero depth area without entering the water features "zone of influence."
- A small peninsula is located on the north edge of the pool. This peninsula"
  - a. Defines the edge of the water walking lanes
  - b. Provides location for the accessible lift
  - c. Provides pool steps into the water walking area
  - d. Provides location for lifeguard chair
- The center of the pool is relatively flat with water depths of 3'-6" to 4'-0"
- The edge closest to the bathhouse provides two, 68 feet long, 7ft. wide water walking lanes.

- *Connector*
- The connector slopes from 3'-6" to 5'-0" to follow the slope of the south sections floor
- The location does not interfere with the south sections backstroke stanchions.
- The water slide is located in this area to take advantage of the pool depth
- The water slide is on the east side of the connector to maximize visibility of the pool from the bathhouse and other guard positions
- The large peninsula that forms the connector provides positions for 3 lifeguard chairs

#### *South Section*

- The rectangular section provides eight, 25 yard competitive racing lanes
- Pool depth is 4 feet at the shallow end, 12 feet at the main drains
- The pool floor slope is uniform
- Lane lines are set 7-4" O.C establishing a 7ft clear lane
- The pool width allows placement of lane lines at the outside of lanes 1 and 8.
- Diving board is centered on a lane line between starting blocks
- South edge of this section provides continuous access along the entire length of the pool

#### *Filtration*

- Pool water will be turned over every 4 hours
- The splash down area of the slide will be designed to increase the turnover rate to an hour with this zone
- Flow Rate: 1,300 GPM at 4 hours
- Filter Area:
  - a. 85 square feet for high rate sand
  - b. 867 square feet for regenerative filters

### **Spray Deck**

- The spray deck is located on the north side of the pool and helps make the 5 ft. grade change from the pool deck to the park level.
- The deck is organized around an "S" shaped ramp
- The deck has two levels; one at grade and one at 2'-6" above grade.
- The ramp and two levels will be used to separate water feature types.
  - a. Lower impact, lower flow features are geared towards toddlers, younger children, and children not comfortable with large volumes of water.
  - b. Older children prefer larger, high flow features than enjoy being sprayed and interacting with large water flows
  - c. All features will be selected to encourage inclusive play for all ages.
- The spray deck enclosure is designed to allow access when the pool is closed. The spray deck can potentially open earlier in the season and remain open after the main pool closes.
- Shade structures are used to mark the entrances and circulation.
- Filtration
  - a. Water will be recirculated in the spray deck requiring a separate filtration system
  - b. There is not standing water in the spray deck
  - c. A reservoir will be constructed beneath the spray deck; the water in the spray deck will be filtered with a 30 minute turnover rate.
  - d. The reservoir will require a UV system
  - e. Drainage is by gravity with no direct suction at the spray feature drains.

## Deck Design



- The pool deck design is being coordinated with the overall park design that is currently being designed.
- The new pool deck will be set level with the bathhouse floor to avoid ramps into the building
- Pool deck will be cast-in-place concrete
- The south side of the pool contains a flight of steps and two ramps.
- The lawn/field to the south side of the pool will be used as a staging area for large swim meets
- The proposed design provides an formal entrances to the pool decks for swim teams
- The two ramps are designed to allow spectators to line the ramp and view the pool
- The south end of the deck along the length of the pool is 14 feet to allow ample space for circulation, officials, and coaches
- The deck at starting end of the south section is 20 feet wide
- The zero depth area is located at the northeast corner of the pool.
- This location is closets to the majority of seating
- Cantilevered fabric shades structures are located on the north and east sides of the deck. The cantilevered design allow chairs and chaise lounges to moved and stacked to provide free desk space during large events.
- Permanent fixed benches are located at the back of the shade structures to ensure seating will always be available.
- Rinse stations will be located on the deck at each end of the pool to provide patrons to rinse-off before reentering the pool are after leaving the pool.
- At the south end of the bathhouse, a new deck level platform is proposed. This platform will be enclosed in a fence and covered to provide deck storage.
- At the north end of the bathhouse, a new deck level platform is proposed to provide a separate seating/eating area. Umbrella covered tables and chairs will be located on this platform.
- The deck is enclosed with a 6 ft. high vinyl coated chain link fence. Chain link is required by MA statute; decorative fencing is not allowed.

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**Bathhouse**



- The interior of the bathhouse will be reorganized to utilize the large open changing areas that were part of the original 1965 design
- Day use lockers are provided in each changing room
- Shower stalls have a dry and wet section
- Benches and hooks will be provided along the walls to accommodate additional changes
- Three gender neutral toilet/shower changing rooms are proposed. One located directly off of the lobby; two located with direct access to the pool deck.
- All patrons will enter the bathhouse/pool complex through the main lobby
- Direct pool access is available to the left of the control desk.
- The manager's office has been pushed towards the pool to allow full view of the pool deck from the managers work area.
- Separate staff area and toilet/shower are provided
- First aid space is provided in the staff area. A hospital curtain will be used for treatment of an injured bather. Space is sized for a foldout cot and include cabinets, counter and sink for storage of medical supplies
- Lobby day-use storage lockers will be located off the lobby.
- The control and managers space is glazed to provide visual connection between the lobby and pool
- The existing stair to the filter level remains
- A new open areaway with stairs to the filter room will be located at the former driveway. The areaway will provide direct access to the filter room for maintenance and deliveries.
- The walls of the areaway will be 3'-6" high cast-in place concrete walls. The area will have a gate and be fitted with a flood barrier to protect the areaway from Cheesecake Brook flood waters.
- Skylight (light-tubes) are proposed for the locker rooms and lobby to take advantage of natural light.