



Erie, PA – 2018: The Presque Isle Partnership is working with the Presque Isle State Park and the Presque Isle Lifeguard Association (PILA) to enhance the safety of visitors at the beaches of the Presque Isle State Park.

New lifeguard towers will be a great addition to the beaches and replace the outdated structures that have been serving the lifeguard staff on Presque Isle State Park for the last 30+ years. The improvements to which these new towers will provide include:

- A central location for the life guard staff and the public
- Accessibility and storage for vital equipment
- Higher elevation to provide better scanning techniques and visibility

The lifeguard towers will also provide better sun protection for the lifeguard employees who face the elements to provide safety and protection to the annual beach visitors each summer.

Lifeguard towers like these will be an investment in the Erie Community, the Presque Isle Park and Lifeguard Employees and the future of Presque Isle State Park.

ENVIRONMENT

The environment at Presque State Park is defined by the following.

Temperature range: -17° F - 99° F

Maximum winds: 0-78 mph

Maximum sun exposure and glare off the lake through the afternoon until sundown

Lightning Storms

Sandy

LIFEGUARD TOWER ATTRIBUTES

Foundations:

- The lifeguard tower will be set in sand. There is no plan to pour concrete slabs to act as foundations.
- The lifeguard tower should be moveable in a sandy environment
- The lifeguard tower should be collapsible enough to be hauled by a park truck and trailer.
- The lifeguard tower will remain on shore in winter months, but may be used for winter emergency actions.

Visibility: The lifeguard station must provide maximum visibility for the guards in 360 degrees.

Capacity: The lifeguard station will hold up to two guards and their safety equipment.

Safety: The lifeguard station should provide shelter against the sun, rain and, most importantly must act as a faraday cage in lightning storms

Equipment: All emergency response items stored in the tower must be easily reached. See full list of equipment under STORAGE REQUIREMENTS

Accessibility: The lifeguard tower must be open to the front to provide the quickest exit to the shoreline/waterfront as possible using a ramp.

Power: Electrical power is required for the radio charger, pa system, fans, interior lights and exterior spotlights.

Other: The Pennsylvania Bureau of State Parks and the Presque Isle Partnership believe in conservation and environmental stewardship. This should be considered while choosing materials, power systems and manufacturing process. The use of recycled and sustainable materials is highly recommended. LEED certification guidelines should be considered.

EXTERIOR REQUIREMENTS

Exterior Materials: There is no preference for exterior materials, but the station should be light in color.

Windows:

Provide ability to shade and eliminate glare from the sun.

Provide ability to close / shutter windows completely in order to secure the interior

Windows must be able to open/close to control internal temperatures. Getting proper airflow through the inside of the tower is of utmost importance.

Platform:

The platform in the front of the structure should be large enough to hold two captain's chairs

Platform height: The distance from the ground to eye level for an average person (5'8") standing on the platform should be between 8-10 ft.

Ramp: The lifeguard tower platform should be easily accessible by ramp. The ramp should be removeable.

Information Display: The lifeguard tower must have a display board / white board to post water conditions, updated rules and regulations and announcements.

Weight Kit: The lifeguard tower must have a removable weight kit, so it can be easily moved, but withstand the upper range of winds.

Mobility: The lifeguard tower will need lifting hooks and trailer hitch so Park officials can lift and move the tower.

Flag Poles: The lifeguard tower will 2 flag holders to display water conditions

Spotlights: The lifeguard tower should have spotlights that provide lighting in all directions.

Other: Rescue Jet Ski on a bubble trailer may be secured to the tower for overnight storage

INTERIOR REQUIREMENTS

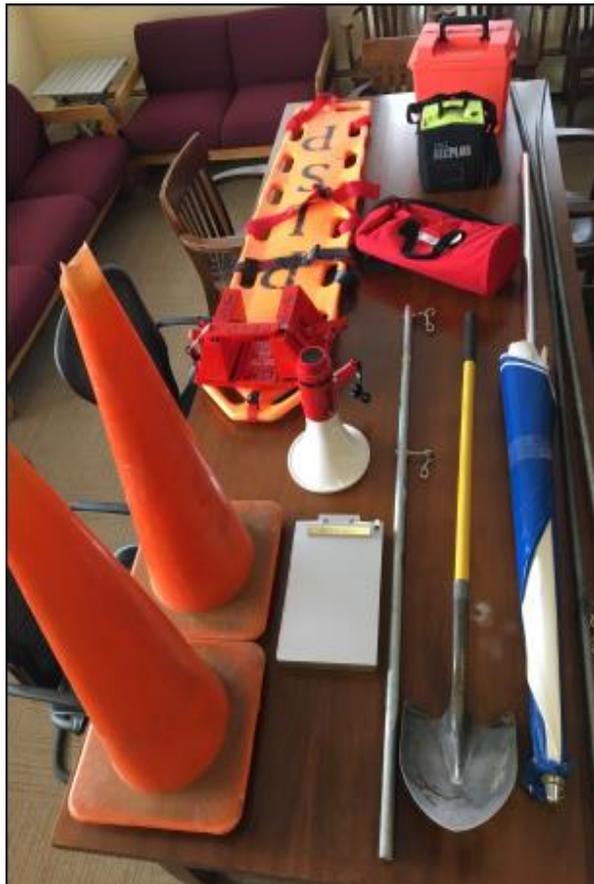
Please include the following for the designs

- Adjustable seating for two people, can be bench or other
- Cubbies for maps, information, and documents
- Writing Surface
- Fan for temperature control
- Lights
- Space for Radio and PA System

STORAGE REQUIREMENTS

The following equipment must be stored on the tower and be easily accessible:

- Backboard (12" H x 72" L x 18" W)
- Med Kit (14" H x 20" L x 12" W)
- Cones (2) (40" H x 17" W)
- End Flag Poles (2) (120" L x 2" W)
- Tower Flag Pole (60" L x 2" W)
- Megaphone (18" H x 17" L x 14" W)
- Field Report Box (10" H x 16" L x 10" W)
- Binoculars
- Shovel (60" L x 12" H)
- Umbrellas (6) (92" L x 10" W)
- O2 Bag (10" H x 24" L x 10" W)



MEP REQUIREMENTS

There is no need for heating, air conditioning or plumbing

Ideally the unit would be self-sustaining to provide electricity. NO Gas powered generators allowed.

COST PER UNIT

The Presque Isle Partnership would like to keep the cost of the manufactured unit to under \$18K

ADDITIONAL OPTIONS

Adjustable height (considering sandy environment)

Space for weather stations

Solar Panels