Spray Feature Plan Detail



Items to Include in the Plans

Spray Feature Dimensions and Surfacing Material

- Length.
- □ Width.
- Type of surface material.
- All decks, locker rooms, and walkways to and from the spray feature including walking surfaces within the feature sloped to drains.
- Surface is non-slip.
- □ Type of surfacing material used.
- □ Materials easy to clean, fast drying, and water-sealed.

Dimensions of Walking Surfaces

- □ Width of walking surface beyond the spray feature itself.
- Review of potential spray drift to ensure walking surfaces extend adequately to catch spray.

Spray Feature Water

- Approved potable source of water.
- Water disposed in a manner approved by local authorities or the state department of health.

Inlets and Outlets and Make-up Water

- □ Inlet sprays designed and maintained so that they do not inflict physical damage to the bathers.
- □ Evaluation force of the spray nozzle:
 - Gallons per minute flow.
 - Size of opening at nozzles.
 - Amount of pressure at the nozzle.
 - Velocity, pressure, and total force in proximity to bathers' eyes and other sensitive body parts.
- Outlets designed and maintained with sufficient capacity to prohibit water accumulation in the spray feature.
- Two or more drains.
- Openings do not allow passage of a half sphere.
- Grates properly secured to prevent removal.
- Grates strong enough to withstand anticipated loadings.
- Where grates recirculating to a pump:
 - Drains spaced 3 feet apart.
 - Drains sized to handle a maximum flow of 1.5 feet per second at full recirculation rate.
 - Drains sized to prevent suction hazard.

Note: This plan detail doesn't yet include additional requirements needed to comply with the new federal law, the *Virginia Graeme Baker Pool and Spa Safety Act*. For guidance, see www.doh.wa.gov/WaterRecRules.

Recirculating Spray Pools	
	If water is recirculated and treated, [comply with treatment requirements in 246-260-
	031] and provide a minimum 30 minutes turnover treatment rate.
	Design provides for routine draining of the water in the holding tank for the spray
	feature. Volume of spray feature adequate to require replenishment spray feature
	holding tank less than twice a week.
	Provide details to ensure when the holding tank is emptied it is safely accessible for
	operators to clean and remove oils and dirt and to disinfect tank.
	Draining and cleaning requirements calculated by spray pool reservoir volume in
	gallons/3/average daily use. Volume in gallons/3 divided by 200 = 4 days. Minimum
	volume needed for draining every four days with 200 people average/day would be
	2400 gallons.
	Note how fresh water will be added to the spray feature reservoir when it is
	recirculating.
	Protections to prevent back pressure or back siphonage.
	Size of the fresh water makeup in relation to anticipated daily needs.
Valves, Strainer Basket, and Pump	
□ ·	Identify valve placement in the design.
	Flow control from the overflow and the main drain system assures at least 60 percent
_	of the flow comes from the overflow system.
	Note design flow of the pump in relation to the overall range of flows with the filter
	clean and with the filter dirty.
	Provide estimated range of flows determined by the design (hydraulic calculations
	welcome).
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	er Rate, Filter, Disinfection Equipment, and other Chemical Feeding Equipment
	Provide turnover rate.
	Turnover rate to meet the minimum turnover requirement when filter is dirty.
	GPM/SF rate of flow with filter clean and dirty.
	Filter and disinfection equipment listed to NSF 50 or equal.
	Equipment sized to ensure it meets anticipated peak flows and demands and average demands.
	If using cartridge filters, specify an extra set of cartridges.
	When recirculation pump is turned off, controls for feeding disinfectant and other
	chemical feeding equipment for controlling pH also turns off (describe how this is
	accomplished).
	If using supplemental disinfectants, such as ozone, copper/silver, or uV, please contact
	the office to ensure that they correctly used.
	nical Equipment and Chemical Storage
	Adequate space provided for access to equipment for routine maintenance and use.
	All gauges and flow meters located so they can be easily read and provide accurate
_	readings.
	All chemicals stored in a separate room or according to the manufacturer's
	requirements. Mechanical room:
	Locked. Well ventilated.
	o Sloped to drain.
	 Lighted sufficient for equipment maintenance and reading of meters and gauges.
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Locker Rooms and Plumbing Fixtures

- □ Plumbing fixtures conform with applicable requirements toilets, urinals, showers, sinks, hose bibs, diaper changing stations, drinking fountains, and janitor sinks.
- Locker room designed to minimize cross traffic between persons in street shoes and those in bare-feet.

Mechanical Ventilation

- Adequate space provided for access to equipment and for maintenance and use.
- □ Gauges and flow meters placed where they may be easily read.
- □ Chemicals stored in a separate room or area in accordance with manufacturer's requirements.
- Mechanical room includes:
 - o Enclosed, locked well ventilated room.
 - Sloped floor to prevent standing water.
 - Lighting to ensure that gauges may be easily read.

Lighting – Outdoor Spray Features

- Pools used after dusk meet minimum lighting conditions of 10 foot candles on the decks and pool surface.
- Pool closed before dusk.
 - o Letter from the owner provided.

Lighting - Indoor Spray Features

- □ Meets minimum standards for indoor pools of 30 foot candles on pool surfaces, 10 foot candles on pool decks.
- □ Lights have protective covers.
- □ The direction of natural light from windows and potential for glare problems from sunlight considered.

For more information, contact the Washington State Department of Health's Water Recreation Program at www.doh.wa.gov/watersafetycontact.

Water Recreation Facility Construction Permit: Spray Feature Plan Detail