



RULE 1 AQUATIC FACILITIES – LICENSE APPLICATION
 CENTRAL VALLEY HEALTH DISTRICT
 Environmental Health Department
 EH 101 (03/2025)

ATTACHMENT 1 – AQUATIC VENUE DESIGN COMPLIANCE FORM

Instructions: Complete this form in its entirety and submit as an attachment to an Aquatic Facility Application for the construction of every Aquatic Venue documented in Section 2 of the Central Valley Health District Rule 1 – Aquatics Facilities License Application.

By initial each section of this form, the Designer certifies that the design of the proposed aquatic venue conforms with the requirements set forth in the Central Valley Health District Rule #1 Aquatic Facilities. Definitions for terminology used in this form can be found in CVHD Rule #1 and the current Model Aquatic Health Code (MAHC) Section 2 Glossary of Terms.

Facility Name	Aquatic Venue Number
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CENTRAL VALLEY HEALTH DISTRICT RULE #1 AQUATIC FACILITIES		DESIGNER
REF	RULE	INITIAL
7.1	Plans and specifications are required. No person shall begin to construct a new aquatic facility or shall substantially alter more than 50% of an existing aquatic facility without first having the construction plans detailing the construction or substantial alteration submitted to and approved by the adopting authority.	
7.2	It is required that plans and specifications be prepared for all water works systems, sewage systems, and aquatic venues contemplated for use by the public.	
7.3	Aquatic facility construction plans shall be designed to provide sufficient clarity to indicate the location, nature, and extent of the work proposed.	
7.4	<p>Aquatic facility construction plans shall show in detail that they will conform to the current Model Aquatic Health Code and relevant laws, ordinances, rules, and regulations to protect the health and safety of the facility’s bathers and patrons. Aquatic facilities shall also comply with any federal, state, and/or local requirements affecting aquatic facilities, including but not limited to the following:</p> <ul style="list-style-type: none"> All aquatic facilities serving the public shall meet the requirements of the Americans with Disabilities Act. All aquatic facilities and venue equipment shall be installed and valved in accordance with the North Dakota State Plumbing Code. Aquatic facility wastewater, including aquatic venue wastewater such as backwash water, shall be disposed of in accordance with local requirements. Electrical wiring and systems, electrical equipment, and associated equipment shall preserve compliance with the National Electric Code or with applicable local codes. 	
7.5	All plans shall be prepared by a design professional who is registered or licensed to practice their respective design profession as defined by the state or local laws governing professional practice within the jurisdiction in which the project is to be constructed.	
7.6	<p>All plans shall be signed by the design professional and include a statement of design compliance with this regulation. All construction plans shall include the following statements:</p> <ul style="list-style-type: none"> “The proposed aquatic facility and all equipment shall be constructed and installed in conformity with the approved plans and specifications or approved amendments,” and “No substantial alteration, changes, additions, or equipment not specified in the approved plans can be made or added until the plans for such substantial alteration, changes, additions, or equipment are submitted to and approved by the adopting authority.” 	

CVHD RULE #1 AQUATIC FACILITIES (CONTINUED)		DESIGNER INITIAL
REF	RULE	
7.7	Plans, along with the aquatic facility application and any other pertinent information required, shall be submitted to the adopting authority for review prior to construction, alteration, or reconstruction of the aquatic facility or aquatic venue for review.	
7.8	The approval by the adopting authority is independent of all other required approvals such as Building, Zoning, Fire, Electrical, Structural, and any other approvals as required by local or state law, and the applicant must separately obtain all other required approvals and permits.	

Applications for proposed aquatic venues must include the following elements as indicated in [MAHC, Section 4.1](#). Please document where each element can be found throughout your License Application documents. Application Location documentation may include drawing/page number, document name, etc.

2023 MODEL AQUATIC HEALTH CODE		APPLICATION LOCATION
REF	CODE	
4.1.1.1	AQUATIC FACILITY construction plans shall be designed to provide sufficient clarity to indicate the location, nature, and extent of the work proposed.	
4.1.1.2	AQUATIC FACILITY construction plans shall show in detail that the aquatic facility will conform to the provisions of this CODE and all applicable local, state, territorial, federal, and tribal laws as determined by DEPARTMENT to protect the health and SAFETY of the facility's BATHERS and PATRONS.	
4.1.1.3	No person shall begin to construct a new AQUATIC FACILITY or shall SUBSTANTIALLY ALTER an existing AQUATIC FACILITY without first having the construction plans detailing the construction or SUBSTANTIAL ALTERATION submitted to and approved by DEPARTMENT. Approval cannot be completed without payment of fees per the DEPARTMENT fee schedule, where applicable.	
4.1.1.4	All plans shall be prepared by a design professional proficient in the application of this CODE and all applicable local, state, territorial, federal, and tribal laws, relevant to the project and who shall apply this CODE and all applicable laws when preparing project plans.	
4.1.1.5	All construction plans shall include the following statements: <ul style="list-style-type: none"> • "The proposed aquatic facility and all equipment shall be constructed and installed in conformity with the approved plans and specifications or approved amendments." • "No substantial alteration, changes, additions, or equipment not specified in the approved plans can be made or added until the plans for such substantial alteration, changes, additions, or equipment are submitted to and approved by DEPARTMENT." 	
4.1.2.1.1	AQUATIC FACILITY plans shall include the name, address, and contact information for the owner, designer, and builder if available at the time of submission.	
4.1.2.1.2	AQUATIC FACILITY plans shall include site information indicating at a minimum the location of all utilities, wells, topography, natural water features, and potential sources of surface drainage and pollution which have the potential to affect the proposed AQUATIC FACILITY.	
4.1.2.1.3	AQUATIC FACILITY plans shall include a site plot plan including: <ul style="list-style-type: none"> • A general map and detailed scaled drawings of the AQUATIC FACILITY site plan or floor plan with detailed locations of the AQUATIC VENUES and AQUATIC FEATURES. • The locations of all water supply facilities, sources of drinking water, public or private sewers, and relative elevations of paved or other walkways and the EQUIPMENT ROOM floor shall be shown on the plans with the elevations of storm and sanitary sewer inverts and street grade. 	

2023 MODEL AQUATIC HEALTH CODE (CONTINUED)

REF	CODE	APPLICATION LOCATION
4.1.2.2.1	Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall include an AQUATIC VENUE area plan and layout plan along with dimensioned longitudinal and transverse cross sections of the AQUATIC VENUE.	
4.1.2.2.1.1	The design documents shall include a record of operating conditions (water temperature(s), space temperature, space relative humidity, space dew point) and intended use for each type of VENUE (FLAT WATER, AGITATED WATER, HOT WATER) accepted by both the designer and owner/operator.	
4.1.2.2.2	<p>Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall include location and type of:</p> <ul style="list-style-type: none"> • INLETS • Overflows • Drains • Suction outlets • Piping • Overflow gutters or devices • Design POOL water elevation • AQUATIC FEATURES such as: ladders, stairs, diving boards, SLIDES, and play features • Lighting • POOL markings • Surface materials 	
4.1.2.2.3	<p>Detailed scaled and dimensional drawings of the AQUATIC FACILITY and for each individual AQUATIC VENUE, as appropriate, shall include location and type of:</p> <ul style="list-style-type: none"> • Design of AQUATIC VENUE ENCLOSURE including walls, fencing, entry and exit doors and gates, self-closing and latching hardware and locks • Design of DECK, including paving materials, DECK slop, and DECK drains • Paved walkways and other hardscape feature • SLIP-RESISTANT flooring • AQUATIC VENUE area finishes • Drinking fountains or other sources of drinking water • Entries and exits • Hose bibs • Fences • Telephones • Area lighting 	
4.1.2.2.4	<p>Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall contain a flow diagram showing the location, plan, elevation, and schematics of:</p> <ul style="list-style-type: none"> • Filters • Pumps • Chemical feeders and interlocks • Chemical controllers and interlocks • SECONDARY TREATMENT, if required • Supplemental DISINFECTION systems, if installed • Ventilation devices or AIR HANDLING SYSTEMS • Heaters • Surge tanks, including operating levels • BACKFLOW prevention assemblies and air gaps • Valves • Piping • Flow meters • Gauges • Thermometers • Test cocks • Sight glasses • Drainage system for the disposal of AQUATIC VENUE water and filter wastewater 	
4.1.2.2.5	Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall contain a schematic layout of the AQUATIC VENUE EQUIPMENT ROOM OR AREA showing accessibility for installation and maintenance.	

2023 MODEL AQUATIC HEALTH CODE (CONTINUED)		APPLICATION LOCATION
REF	CODE	
4.1.2.2.6	Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall contain a schematic layout of the AQUATIC FACILITY CHEMICAL STORAGE SPACE(S).	
4.1.2.2.7	Detailed scaled and dimensional drawings for each AQUATIC FACILITY shall show the location and number of all available HYGIENE FACILITIES provided including dressing rooms, lockers and basket STORAGE, SHOWERS, lavatory, toilet FIXTURES, and DIAPERCHANGING STATIONS	
4.1.2.3.1	Technical specifications for the construction of each AQUATIC VENUE and all appurtenances shall accompany the drawings for the AQUATIC FACILITY plans.	
4.1.2.3.2	The following technical specifications shall be provided for each AQUATIC FACILITY: <ul style="list-style-type: none"> • Water temperature for each AQUATIC VENUE • Effective surface area of each AQUATIC VENUE • Space design – Listing of each room size (length, width, height), statement that a vapor barrier is included in the construction of all interior and exterior wall and ceiling surfaces, statement that all windows are at least double pane and include a thermal break along with the U valve, a listing of all wall and ceiling construction R values. • Design/desired dry bulb and dew point temperatures • Desing/desired relative humidity • Type of water treatment • Perimeter DECK and POOL DECK, which are the same as the WET DECK area defined in the ASHRAE 62.1.2019 Standard, which defines this area as the “area surrounding the POOL surface that is capable of being wetted during use or when POOL is occupied.” 	
4.1.2.3.2.1	Each AQUATIC VENUE shall include all construction details not shown on the plans that relate to the AQUATIC FACILITY.	
4.1.2.3.2.2	During the design of the ventilation and CLIMATE CONTROL SYSTEMS for INDOOR AQUATIC FACILITIES, the DESIGN PROFESSIONALS (engineers and architects) shall consult with and obtain input from the owner/operator to address intended uses, type of AQUATIC VENUES (FLAT WATER, AGITATED WATER, HOT WATER) and intended typical operating water temperatures, space air temperature, and relative humidity.	
4.1.2.3.3	The technical specifications for each AQUATIC FACILITY shall include the sources of all water supplies.	
4.1.2.3.4	Technical specifications shall include the water surface area and volume of each AQUATIC VENUE and associated water features, if applicable.	
4.1.2.3.5	The technical specifications for each AQUATIC FACILITY and each AQUATIC VENUE shall include THEORETICAL PEAK OCCUPANCY, respectively.	
4.1.2.3.5.1	The THEORETICAL PEAK OCCUPANCY for ventilation air for an AQUATIC VENUE shall be used for designing systems that serve BATHERS and PATRONS.	
4.1.2.3.5.2	The THEORETICAL PEAK OCCUPANCY for an AQUATIC FACILITY shall be used for designing systems that serve BATHERS and PATRONS and shall incorporate non-water-related areas such as DECKS and other adjacent portions of the AQUATIC FACILITY not associated with the AQUATIC VENUE.	

2023 MODEL AQUATIC HEALTH CODE (CONTINUED)

REF	CODE	APPLICATION LOCATION
<p>4.1.2.3.5.3</p>	<p>The THEORETICAL PEAK OCCUPANCY shall be calculated by dividing the surface area in square feet of the AQUATIC VENUE by the density factor (D) that fits the specific AQUATIC VENUE being considered.</p> <ul style="list-style-type: none"> • THEORETICAL PEAK OCCUPANCY = AQUATIC VENUE Surface Area / D <p>The density factors (D) are Water/BATHER-related:</p> <ul style="list-style-type: none"> • FLAT WATER density factor = 20 ft² (1.9 m²) per BATHER. • AGITATED WATER density factor = 15 ft² (1.4 m²) per BATHER. • HOT WATER density factor = 10 ft² (0.9 m²) per BATHER. • WATERSLIDE LANDING POOL density factor = manufacturer-established capacity at any given time. • INTERACTIVE WATER PLAY water density factor = 10 ft² (0.9 m²) per BATHER. • SURF POOL density factor = manufacturer-established capacity at any given time. <p>7) Non-water/PATRON-related</p> <ul style="list-style-type: none"> • DECK density factor = 50 ft² (4.6 m²) per BATHER. • STADIUM SEATING density factor = 6.6 ft² (0.6 m²) per BATHER. 	
<p>4.1.2.3.5.3.1</p>	<p>The density factors in MAHC 4.1.2.3.5.3 may be modified for higher BATHER or PATRON density, but they shall not be modified to result in less BATHERS per square feet than listed for the factors in MAHC 4.1.2.3.5.3.</p>	
<p>4.1.2.3.5.3.2</p>	<p>The THEORETICAL PEAK OCCUPANCY for an AQUATIC FACILITY shall be determined by adding the calculations for each AQUATIC VENUE in the AQUATIC FACILITY.</p>	
<p>4.1.2.3.6</p>	<p>The technical specifications and supplemental engineering data for each AQUATIC FACILITY and each AQUATIC VENUE shall include:</p> <ul style="list-style-type: none"> • Detailed information on the type, size, operating characteristics, and rating of all mechanical and electrical equipment • Hydraulic computations for head loss in all piping and recirculation equipment • Pump curves that demonstrate that the selected recirculation pump(s) are adequate for the calculated required flows • For INDOOR AQUATIC FACILITIES, documentation that demonstrates that the INDOOR AQUATIC FACILITY is designed to meet the acoustic design criteria contained in MAHC 4.6.11. • Documentation per MAHC 4.7.3.2.2.3 to demonstrate that the selected DISINFECTANT feeders/equipment are of sufficient size and capacity, including evaluation of the CHLORINE demand factors in MAHC 4.7.3.2.2.1. 	
<p>4.1.2.3.7</p>	<p>The technical specifications for each AQUATIC VENUE shall include the recirculation rate and TURNOVER TIME.</p>	
<p>4.1.2.3.8</p>	<p>The technical specifications for each AQUATIC VENUE shall include information on the filter media such as diatomaceous earth, sand, gravel, or other approved material.</p>	
<p>4.1.2.3.9</p>	<p>The technical specifications for each INDOOR AQUATIC FACILITY shall include information on each piece of equipment associated with that INDOOR AQUATIC FACILITY. For climate control equipment, the specifications shall include the following items at a minimum: sensible cooling capacity, sensible heating capacity, MOISTURE REMOVAL CAPACITY in lbs/hr, MOISTURE REMOVAL EFFICIENCY (MRE) as listed in the AHRI Standard 920-2020 Performance Rating of Direct Expansion-Dedicated Outdoor Air System Units or AHRI Standard 910-2014 Performance Rating of Indoor Pool Dehumidifiers, CFM of outside air, CFM of exhaust air, CFM of supply air, voltage, power requirements, and design temperature and humidity.</p>	

2023 MODEL AQUATIC HEALTH CODE (CONTINUED)		APPLICATION LOCATION
REF	CODE	
4.1.2.3.10	The technical specifications for each AQUATIC FACILITY shall include information on all aquatic SAFETY equipment.	
4.1.2.3.11	The layout for zones of PATRON surveillance as specified in MAHC 6.3.3.1.1 shall be included and must show features or design configurations that can impact PATRON surveillance.	
4.1.2.3.12	The technical specifications for each AQUATIC FACILITY and each AQUATIC VENUE shall include additional information related to the project requested by DEPARTMENT for the purposes of the construction of the AQUATIC FACILITY and each AQUATIC VENUE and all appurtenances.	
4.1.2.3.13	The air filters used should be suitable for elevated humidity levels.	
4.1.3.1.2	The approval shall also state that it is independent of all other required approvals such as Building, Zoning, Fire, Electrical, Structural, and any other approvals as required by local or state law or CODE and the applicant must separately obtain all other required approvals and permits.	N/A
4.1.3.1.5	The AQUATIC FACILITY owner shall maintain at least one set of their own approved plans made available to DEPARTMENT on file for as long as the AQUATIC FACILITY is in operation.	N/A
4.1.3.2.1	The AQUATIC FACILITY owner planning a non-SUBSTANTIAL ALTERATION shall contact DEPARTMENT to review proposed changes prior to starting the non-SUBSTANTIAL ALTERATION.	N/A
4.1.3.2.2	The AQUATIC FACILITY operator shall consult with DEPARTMENT to determine if new or modified plans must be submitted for plan review and approval for other non-SUBSTANTIAL ALTERATIONS proposed.	N/A
4.1.3.3.1	Prior to replacing equipment, the AQUATIC FACILITY owner shall submit technical verification to DEPARTMENT that all replacement equipment is equal to that which was originally approved and installed.	N/A
4.1.3.3.2	The replacement of pumps, filters, feeders, controllers, SKIMMERS, flow meters, valves, or other similar equipment with identical or substantially similar equipment may be done without submission to DEPARTMENT for approval of new or altered AQUATIC FACILITY plans.	N/A
4.1.3.3.3	In emergencies, the replacement may be made prior to receiving DEPARTMENT's approval, with the owner accepting responsibility for proper immediate replacement, if the equipment is not deemed equivalent by DEPARTMENT.	N/A
4.1.3.3.3.1	Where emergency replacements are installed as per MAHC 4.1.3.3.3, the owner shall submit documentation for review and approval of the replacement to DEPARTMENT within 45 days.	N/A
4.1.3.3.5	Documentation of proposed, approved, and disapproved replacements shall be maintained in DEPARTMENT's AQUATIC FACILITY files.	N/A
4.1.4.1	A certificate of construction compliance shall be submitted to DEPARTMENT for all AQUATIC FACILITY plans for new construction and SUBSTANTIAL ALTERATIONS requiring DEPARTMENT approvals.	
4.1.4.2	This certificate shall be prepared by a DESIGN PROFESSIONAL and be within the scope of their practice as defined by the local, state, territorial, federal, and tribal laws governing professional practice within the jurisdiction of the permit issuing official.	
4.1.4.3	The certificate shall also include a statement that the AQUATIC FACILITY, all equipment, and appurtenances have been constructed and/or installed in accordance with approved plans and specifications.	

2023 MODEL AQUATIC HEALTH CODE (CONTINUED)		APPLICATION LOCATION
REF	CODE	
4.1.4.4	If commissioning or testing reports for systems such as AQUATIC FACILITY lighting, air handling, recirculation, filtration, and/or DISINFECTION are conducted, then those reports shall be included in furnished documentation.	
4.1.4.5	Documentation of AQUATIC FACILITY new construction or SUBSTANTIAL ALTERATION plan compliance shall be maintained in DEPARTMENT's AQUATIC FACILITY files.	N/A
4.1.5.1	Applicable construction permits required in this CODE shall be obtained before any AQUATIC FACILITY may be constructed.	
4.1.5.2	A construction permit or other applicable permits may be required from Pueblo Regional Building Department or other applicable agency before SUBSTANTIAL ALTERATION of an AQUATIC FACILITY.	
4.1.5.5	Documentation of AQUATIC FACILITY Certificate of Operation renewal or denial shall be maintained in DEPARTMENT's AQUATIC FACILITY files.	N/A
4.1.5.6	The AHJ shall revoke a permit or approval issued under the provisions of this CODE in case of any false statement or misrepresentation of fact in the application or on the construction documents on which the approval was based.	
4.1.5.7	Upon notice from the AHJ, work on any system that is being performed contrary to the provisions of this CODE or in a dangerous or unsafe manner shall immediately cease. Such notice shall be in writing and shall be given to the owner of the property, the owner's authorized agent, or to the person performing the work. The notice shall state the condition under which work is authorized to resume.	
4.1.5.7.1	When an emergency exists, the AHJ shall not be required to give a written notice prior to stopping the work.	

To complete the following table, refer to the requirements of the 2023 MAHC, Sections 4.2 through 4.12, including all subsections. In initialing this section, the Designer certifies the design of this aquatic venue incorporates Sections 4.2 through 4.12 of the 2023 MAHC.

2023 MODEL AQUATIC HEALTH CODE		DESIGNER INITIALS
REF	CODE	
4.2	MATERIALS: All materials for the proposed AQUATIC VENUE, including those materials specific to indoor AQUATIC VENUES, comply with the requirements set forth in MAHC Section 4.2.	
4.3	EQUIPMENT STANDARDS: Equipment selected for the proposed AQUATIC VENUE comply with the requirements set forth in MAHC Section 4.3.	
4.5	AQUATIC VENUE STRUCTURE: The design for the proposed AQUATIC VENUE, including risk management considerations, bottom slope, pool access/egress, stairs, handrails, grab rails, recessed steps, ladders, zero depth (sloped) entries, disabled access, color and finish, walls, structural stability, handholds, infinity edges, underwater benches, underwater ledges, underwater shelves, depth markers and markings, and the additional requirements for special use aquatic venues, comply with the requirements set forth in MAHC Section 4.5.	
4.6	INDOOR/OUTDOOR ENVIRONMENT: Lighting, indoor aquatic venue ventilation, indoor/outdoor aquatic venue electrical system components, pool water heating, first aid area, emergency exit, drinking fountains, garbage receptacles, food and drink concessions, and spectator areas for the proposed AQUATIC VENUE comply with the requirements set forth in MAHC Section 4.6.	

2023 MODEL AQUATIC HEALTH CODE (CONTINUED)

REF	CODE	DESIGNER INITIALS
4.7	<p>RECIRCULATION AND WATER TREATMENT: Recirculation systems and equipment, filtration, disinfection and pH control, and the water replenishment system for the proposed AQUATIC VENUE, as well as additional requirements for proposed spas, comply with the requirements of MAHC 4.7.</p>	
4.8	<p>DECKS AND EQUIPMENT: Decks, diving boards and diving platforms, starting platforms, pool slides, lifeguard and safety-related equipment, barriers and enclosures, and aquatic venue cleaning systems for the proposed AQUATIC VENUE comply with the provisions of MAHC 4.8.</p>	
4.9	<p>FILTER/EQUIPMENT ROOM: The equipment room and chemical storage areas for the proposed AQUATIC VENUE comply with the provisions of MAHC 4.9.</p>	
4.10	<p>HYGIENE FACILITIES: The location; design and construction; plumbing fixtures; the incorporation of adequate space for VENUES that supply reusable suits, towels, and shared equipment; the provision of sharps containers; the prohibition of food baths; and design features that satisfy general hygiene facility requirements for the proposed AQUATIC VENUE comply with the provisions of MAHC 4.10.</p>	
4.11	<p>WATER SUPPLY/WASTEWATER DISPOSAL: Water supply, fill spout, cross connection control, deck drains and rinse showers, sanitary waste disposal, and pool wastewater disposal for the proposed facility comply with the provisions of MAHC 4.11.</p>	
4.12	<p>SPECIFIC AQUATIC VENUES: In addition to compliance with MAHC Sections 4.2-MAHC 4.11, proposed spas, waterslides and landing pools, wave pools, therapy pools, lazy rivers, moveable floors, bulkheads, interactive water play venues, wading pools, and other aquatic features not otherwise addressed in the MAHC also comply with the provisions of MAHC 4.12.</p>	