DEPARTMENT OF PUBLIC HEALTH ❖ ENVIRONMENTAL HEALTH DIVISION
1221 FULTON STREET ❖ P.O. BOX 11867, FRESNO, CA 93775
559-600-3357 ❖ 559-455-4646 FAX ❖ www.fcdph.org/pools

MINOR POOL REMODEL FORM

$229.00 plan check fee due upon submittal

SEE PAGES 2-3 FOR CODE REQUIREMENTS AND INSTRUCTIONS.
(Do not use this form if ONLY replacing the VGB drain cover(s) or SVRS; use the **VGB REPLACEMENT FORM**).

Date	Site Name	*(Check only one box; **one** form per pool, spa, wading pool)* ☐ Pool ☐ Spa ☐ Wading Pool
Site Address	Site City	Site Phone #
Pool Contractor	Name Of Person Submitting Plans	Contractor's License #
Contractor Address	Contractor City / Zip	Contractor E-mail
Contractor Phone #	Contractor Cell Phone #	Contractor Fax #

PROPOSED INSTALLATION: (Check all that apply, include make and model information)

☐ Pump: ☐ Recirculation ☐ Spa Jet ☐ Other: _____

☐ Filter: _____

☐ Chemical controller: _____

☐ Drain cover(s)

☐ SVRS

☐ Enclosure: ☐ Fence ☐ Gate

☐ Decking

☐ Decking depth markers and no diving markers

☐ Skimmer replacement: Quantity:_____

☐ Skimmer equalizer outlet removal

☐ Automatic water fill with approved backflow device: ☐ Existing

☐ Coping / hand-holds

☐ Underwater light (white color only)

☐ Handrail(s): ☐ Shallow end ☐ Deep end

☐ Re-plumbing: _____

☐ Other: _____

SITE & EQUIPMENT INFORMATION: (Complete all that apply)

Are the existing main drain(s) split at least three (3) feet apart, hydraulically balanced, and symmetrically plumbed or unblockable?

Recirculation Pump Drain: ☐ Yes ☐ No ☐ Unblockable Spa Jet Pump Drain: ☐ Yes ☐ No ☐ Unblockable

	# of Covers:	Sump Depth:
Proposed Main Drain COVER(s) (Make / Model): _____	_____	_____ Inches
Proposed Skimmer Equalizer COVER(s): ☐ N/A _____	_____	_____ Inches
Proposed Spa Jet Main Drain COVER(s): ☐ N/A _____	_____	_____ Inches

Pipe Sizes: Main Drain ☐ 1½ " ☐ 2" ☐ 2½" ☐ 3" Skimmer(s) ☐ 1½ " ☐ 2" ☐ 2½" ☐ 3" Return ☐ 1½ " ☐ 2" ☐ 2½" ☐ 3"

Existing Pump(s) (Make / Model / HP) : _____ Pipe Size: Spa Jet Pump ☐ 1½ " ☐ 2" ☐ 2½" ☐ 3"

Proposed PUMP(s) (Make / Model / HP) : _____ (if variable speed, type: ☐ VS ☐ VSF ☐ VS+SVRS)**

** Minimum required flow rate setting: _____ GPM (if unknown, contact this office for the required flow rates)

** Maximum flow rate setting: _____ GPM (do not exceed maximum drain cover flow rating or pipe GPM capacities)

** **PUMP FLOW DATA SHEET** (this form is required to be submitted after each variable speed pump installation and before final inspection)

Existing SVRS (Make/Model): _____ Proposed SVRS (Make/Model): _____

(Description of work or additional information not listed above)

PLEASE NOTE: Approval does not constitute permission to violate any applicable City or County ordinance, State, or Federal law, and shall not prevent this department from requiring correction of errors or ommissions in plans, specifications or construction. Approval is required prior to commencing construction and shall first be cleared by the enforcing agent before equipment substitution if not an exact duplicate of the units being changed or replaced. The Building Department shall not issue a permit for a public pool until approved by the enforcing agent.

Revised 10/18/21

CALIFORNIA BUILDING CODE - TITLE 24 - CHAPTER 31B PUBLIC POOLS: (in part)

3103B PLAN REVIEW. A person proposing to construct, renovate or alter a pool, auxiliary facilities or equipment and appurtenances shall submit plans and specifications detailing compliance with this chapter to the enforcing agent for review and written approval prior to commencing construction and shall first be cleared by the enforcing agent before substitution if not an exact duplicate of the units being changed or replaced.
3104B CONSTRUCTION. Pools and all ancillary facilities, equipment and appurtenances shall be constructed, renovated or altered in compliance with plans approved pursuant to 3103B.
3105B PLAN COMPLIANCE INSPECTION. The pool owner, operator or designated agent shall notify the enforcing agent prior to scheduling the following inspections: exposed plumbing; and prior to applying pneumatically placed concrete; and prior to applying the final surface to the pool shell; and at the completion of construction. No pool shall be opened to the public without written approval of the enforcing agent.
3110B.4.1 DEPTH MARKERS. The water depth shall be clearly marked at the following locations: maximum depth; and minimum depth; and each end; and both sides at the shallowest and deepest part of the pool; and at the break in bottom slope between the shallow and deep portions of the pool; and along the perimeter of the pool at distances not to exceed 25 feet. (Note: For an illustration diagram see Figure 31B-8) Exception: A spa or wading pool shall have a minimum of two depth markers indicating the maximum depth.
3110B.4.2 Where required, depth markers shall be located in the following positions: on the coping or on the deck, placed as close as possible, but no more than 3 feet from the pool water; and depth markers shall be high at the waterline which typically will result in markers being submerged approximately 50 percent.
3110B.4.4 Depth markers shall: have numbers a minimum of 4 inches in height and of a color contrasting with the background and be marked in units of feet and inches. Abbreviations of FT and IN may be used in lieu of feet and inches; be made of durable material that is resistant to weathering; and be slip resistant when they are located on the pool deck.
3111B STEPS, RECESSED STEPS, LADDERS, STAIRS. A means of entry and exit to and from the pool shall consist of steps, recessed steps, ladders, stairs, ramps or a combination of these. Stairs or ramps shall be provided in the shallowest portion of a pool if the vertical distance from the bottom of the pool to the deck is over 1 foot. In pools with more than one shallow end, stairs or ramps shall be provided at a minimum at one shallow end. A second means of entry and exit shall be provided in the deep portion of a pool having a depth greater than 4 ½ feet.
3111B.3 At least on hand rail shall be provided extending from the deck to not less than a point above the top of the lowest step. Upper railing surface 28 to 36 inches above the deck and stair risers. (See Figure 31B-7)
3111B.4 Ladder treads and recessed steps shall have minimum tread of 5 inches and a width of 14 inches and shall be designed to be readily cleaned. Step risers shall be uniform and shall not exceed 12 inches in height. The first riser shall be measured from the deck.
3111B.5 Hand railings shall be provided at the top of both sides and shall extend over the coping or edge of the deck.
3111B.6 Two handrails shall be provided for a spa pool.
3112B.1 HANDHOLDS. Every pool shall be provided with hand-holds (perimeter overflow system, bull-nosed coping or cantilevered decking) around the entire perimeter installed not greater than 9 inches above the waterline. Handholds are not required for wading pools.
3112B.3 A bull-nosed coping or cantilevered decking of reinforced concrete, or material of similar strength and durability, with rounded slip-resistant edges shall be provided. The overhang for either bull-nosed coping or cantilever decking shall not exceed 2 inches or be less than 1 inch and shall not exceed 2½ inches in thickness. The enforcing agent may accept other hand-holds for spa pools.
3114B.1 POOL DECKS. A minimum continuous and unobstructed 4 foot wide slip resistant, cleanable, nonabrasive deck area of concrete or like material shall be provided flush with the top of the pool coping extending completely around the pool.
3115B.1 POOL LIGHTING. Pools shall have underwater and deck lighting such that lifeguards or other persons may observe, without interference from direct and reflected glare from the lighting sources, every part of the underwater area and pool surface, all diving boards or other pool appurtenances. If underwater or deck surface lighting is not operational, the operator of the pool shall secure the pool area and not permit any use of the pool after dark and shall post the same sign as required in Section 3120B.9.
3119B.1 POOL ENCLOSURE. The pool shall be enclosed by one or a combination of the following: a fence, portion of a building, wall, or other approved durable enclosure. Doors, windows, gates of living units or associated private premises shall not be permitted as part of the pool enclosure. The enclosure, doors and gates shall meet all of the following specifications: 1. The enclosure shall have a minimum effective perpendicular height of 5 feet (1524 mm) as measured from the outside as depicted in Figure 31B-4; and 2. Openings, holes or gaps in the enclosure, doors and/or gates shall not allow the passage of a 4-inch diameter sphere. The enclosure shall be constructed over a hard and permanent material equivalent to concrete; and 3. The enclosure shall be designed and constructed so that it cannot be readily climbed by small children. Horizontal and diagonal member designs which might serve as a ladder for small children are prohibited. Horizontal members shall be spaced at least 48 inches apart. No planters or other structures that can be climbed shall be permitted within 5 feet of the outside of the pool enclosure or within a 5 foot arc as depicted in Figure 31B-5. The area 5 feet outside of the pool enclosure shall be a common area open to the public; and 4. Chain link may be used, provided that the openings are not greater than 1¾ inches measured horizontally.
3119B.2 GATES. Gates and doors opening into the pool enclosure also shall meet the following specifications: 1. Gates and doors shall be equipped with self-closing and self-latching devices. The self-latching device shall keep the gate or door securely closed. Gates and doors shall open outwardly away from the pool except where otherwise prohibited by law. Hand activated door or gate opening hardware shall be located at a height no lower than 42 inches but no higher than 44 inches above the deck or walkway; and 2. Gates and doors shall be capable of being locked during times when the pool is closed. Exit doors which comply with Chapter 10, Title 24, California Code of Regulations shall be considered as meeting these requirements; and 3. The pool enclosure shall have at least one means of egress without a key for emergency purposes. Unless all gates or doors are so equipped, those gates and/or doors which will allow egress without a key shall have a sign in letters at least 4 inches (102 mm) high stating EMERGENCY EXIT; and 4. The enclosure shall be constructed so that all persons will be required to pass through common pool enclosure gates or doors in order to gain access to the pool area. All gates and doors exiting the pool area shall open into a public area or a walkway accessible by all patrons of the pool.
3120B.17.1 The direction of flow for the recirculation equipment shall be labeled clearly with directional symbols such as arrows on all piping in the equipment area.
3120B.17.2 Where the recirculation equipment for more than one pool is located on site, the equipment shall be marked as to which pool the system serves.
3120B.17.3 Valves and plumbing lines shall be labeled clearly with the source or destination descriptions.
3123B.2 EQUIPMENT. All pumps, filters, chemical feeders, skimmers and supplemental equipment shall comply with the applicable requirements established by the NSF/ANSI 50-2012 performance standard effective September 2012.
3123B.3 All equipment related to pool operations shall be installed and maintained according to this chapter and in accordance with the equipment manufacturer's written instructions.
3124B TURNOVER TIME. The recirculation system shall have the capacity to provide a complete turnover of pool water in: 1. One-half hour or less for a spa pool; and 2. One-half hour or less for a spray ground; and 3. One hour or less for a wading pool; and 4. Two hours or less for a medical pool; and 5. Six hours or less for all other types of public pools. Note: Pools constructed prior to 1982 may have a 8 hour turnover time.
3125B.1 RECIRCULATION PIPING SYSTEM AND COMPONENTS. Pipes shall be sized so flow velocity of piping systems including all pipes and fittings other than inlet devices or venturi throats shall not exceed 6 feet per second in any suction or copper piping and 8 feet per second in any portion of the return system.
3125B.1.1 All piping, tubing and fittings shall comply with the applicable standards for potable water system materials set forth in Chapter 6 of the California Plumbing Code.
3125B.2 Gauges. A pressure and vacuum gauge shall be provided for each pump system. Each gauge shall have a scale range approximately 1 ¼ times the maximum anticipated working pressure or vacuum and shall be accurate within 2 percent of scale. The pressure gauge located on the filter shall be marked with the clean start up pressure reading.
3125B.3 Flow meter. A flow meter shall be provided on each recirculation system accurate to within 10 percent of flow and installed according to the manufacturer's written instructions with increments in the range of normal flow.
3125B.5 Backwash piping. Piping, including necessary valves conforming to 3125B.1, shall be provided for each filter vessel or element which requires periodic backwashing.
3125B.6 Valves. Valves shall not be located in any deck area surrounding a pool. Valves shall be installed on all recirculation, backwashing and drain system lines which require shutoff isolation, adjustment or control of the rate of flow. Each valve shall be installed in the equipment area and labeled as to its purpose.
3127B.2 WATER SUPPLY. There shall be no direct connection between any potable water supply system and the pool or its piping system unless protected by a backflow prevention device in accordance with Chapter 6 of the California Plumbing Code.
3127B.3 Automatic makeup water flow controls with a manual override control shall be provided to maintain the proper pool water level.
3128B.1 FILTERS. All filters, regardless of type, shall be designed and constructed according to the applicable requirements established by the NSF/ANSI 50-2012 performance standard effective September 2012.
3128B.2 Each filter vessel shall be installed, piped and provided with valves so that it can be isolated from the recirculation system for repairs and backwashing.
3133B.1 CHEMICAL FEEDERS. The chemical feeder equipment shall: 1. Be maintained and repaired according to manufacturers' specifications; and 2. Be constructed with an adjustable output rate device to permit repeated adjustments without loss of output rate accuracy and adjusted by an automatic chemical monitoring and control system that regulates, at a minimum, pH and disinfectant; and 3. Meet the applicable requirements established by the NSF/ANSI 50-2012 performance standard effective September 2012.
3133B.3 Chemical feeders and associated components shall be constructed and installed to prevent uncontrolled discharge or siphoning of chemicals and fumes directly into the pool, its recirculation system, the pool area or ancillary facilities.
3134B DISINFECTANT FEEDERS. Disinfectant feeders shall comply with applicable requirements established by the NSF/ANSI 50-2010 performance standard effective August 2010 for disinfectant feeders. In addition to the requirements for chemical feeders as indicated in 3133B.
3136B POOL SKIMMING SYSTEMS. The pool shall be equipped with one or more skimming methods to provide continuous skimming of the pool water and shall be capable of continually withdrawing not less than 100 percent of the flow rate.
3137B.1 OUTLETS. Each pool shall be provided with a main drain submerged suction outlet typically located at the bottom of a pool that conducts water to a recirculating pump. Suction outlets shall comply with all of the following provisions: 1. Each pump on a pool system shall be connected to at least two suction outlets. The suction outlets shall be hydraulically balanced and symmetrically plumbed through one or more "T" fittings and shall be separated by a distance of at least 3 feet in any dimension between the suction outlets; and 2. All suction outlets shall be equipped with suction fittings that meet the ANSI/APSP-16 2011 performance standard; and 3. The velocity of the suction piping installed between the suction outlets shall not exceed 3 feet per second under normal operation, or 6 feet per second if one outlet is blocked.
3137B.2.2 INLET FITTINGS. Inlet fittings shall be located no less than 18 inches below the waterline, except for a spa or wading pool. Wall inlets shall be capable of adjusting the direction of flow and to produce sufficient velocity to impart a substantial circulatory movement to the pool water.
3138B.5 EMERGENCY SHUT OFF SWITCH. A clearly labeled emergency shut off switch for the control of both the recirculation system and the aeration and/or jet system shall be installed adjacent to the spa pool.
3141B.1 WASTE DISPOSAL. Material cleaned from filters and backwash water from any recirculation system shall be disposed in a manner that is acceptable to the local wastewater agency and will not create a nuisance. Backwash water shall not be returned to a pool. Pipes carrying wastewater from pools including pool drainage and backwash from filters shall be installed as an indirect waste in accordance with the requirements of Chapter 8 of the California Plumbing Code. Where a pump is used to discharge waste pool water to the drainage system, the pump discharge shall be installed as an indirect waste.
3141B.2 Diatomaceous earth filters. The backwash from a diatomaceous earth filter shall discharge into a separation tank that has been installed to collect the waste diatomaceous earth mixture. The wastewater from the separation tank shall discharge into a sanitary sewer or other disposal system acceptable to the local wastewater agency.
3141B.3 Piping. Sumps and drain piping shall have sufficient capacity to receive recirculation system backwash without overflow of the sump receiver. The sump shall not permit sewage to enter the surge basin or the pool in the event of a sewage backup
3141B.4 Visual indicator. Where direct observation of the backwash discharge is not visible to the operator during backwash operations, a sight glass shall be installed on the wastewater discharge line.
3141B.5 Prohibited connection. There shall be no direct connection between the pool, its recirculation system or overflow drain to any sanitary sewer, storm drain or drainage system.
3160B GROUND FAULT CIRCUIT INTERRUPTER. All dry-niche light fixtures and underwater wet-niche light fixtures operating at more than 15 volts in public swimming pools shall be protected by a ground-fault circuit interrupter (GFCI) in the branch circuit and shall have encapsulated terminals. All electrical work required for compliance with this section shall be performed by an electrician licensed pursuant to Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code.

INSTRUCTIONS:

Plans are reviewed in the order they are received. Each plan submittal requires a plan check fee payment for a MINOR POOL REMODEL. Submittals received without payment will be returned and will not be reviewed or approved. Missing information or improperly prepared or incomplete forms will not be reviewed and will delay the approval process. If submitting for multiple pools, a separate plan check fee is required for each pool.

The following MUST BE completed and submitted to this office for review and approval:

1. **MINOR POOL REMODEL FORM**. (Fill in all required sections and identify all remodel work to be completed)

2. Environmental Health Application Form. (Contact this office or your inspector for the EH application)

3. Plan Check Fee - $229.00 per pool

   Methods of payment: (Make sure to print copy of receipt or payment confirmation)

   - ***Check or Money Order*** (Make payable to *Fresno County Treasurer*)
   - ***Online***: https://heartlandpaymentservices.net/PaymentPortal/FresnoCoDPHEH/Bills
   - ***Call***: 1 (888) 567-6459

The above forms and payment can be submitted in one of the following options:

A. In Person: 1221 Fulton Street, 3rd Floor, Fresno, CA 93721

B. By Mail: P.O. Box 11867, Fresno, CA 93775-1867

C. Email: environmentalhealth@fresnocountyca.gov

Include:
1. Minor Pool Remodel Form
2. EH Application Form
3. Fee payment

4. After plan approval, a copy will be returned. Approval is required before commencing work and in advance of the issuance of any Building Department permit.

   Please Note: Approval does not constitute permission to violate any applicable City or County ordinance, State, or Federal law, and shall not prevent this department from requiring correction of errors or omissions in plans, specifications or construction. Final approval is subject to field inspection.

5. Complete proposed work.

6. Submit the **CDPH COMPLIANCE FORM** for any installed drain cover(s) or SVRS. (Required to be submitted to this office within 30 days following installation)

7. Call and schedule a FINAL inspection after all work is completed and before re-opening the pool for use.

   Notice: Reinspection fees will be charged if reinspections are required due to uncorrected violations.

CALL FOR INSPECTIONS AT: 559-600-3357