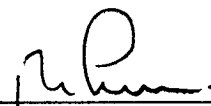


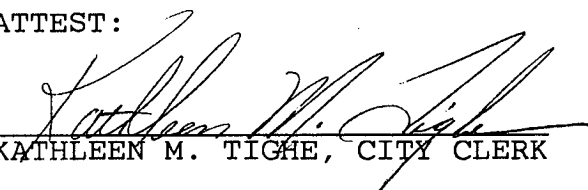
1 SECTION 4: Whenever in this ordinance any act is
2 prohibited or is made or declared to be unlawful or an offense or
3 a misdemeanor, or whenever in this ordinance the doing of any act
4 is required or the failure to do any act is made or declared to
5 be unlawful or an offense or a misdemeanor, the doing of any such
6 prohibited act or the failure to do any such required act shall
7 constitute a misdemeanor and upon conviction thereof, shall be
8 punished by a fine of not more than \$1,000.00 or by imprisonment
9 for a term of not more than six (6) months, or by any combination
10 of such fine and imprisonment. Any day of any violation of this
11 ordinance shall constitute a separate offense.

12 SECTION 5: All ordinances or parts of ordinances,
13 sections, subsections, phrases, sentences, clauses or paragraphs
14 contained in the Municipal Code of the City of Las Vegas, Nevada,
15 1983 Edition, in conflict herewith are hereby repealed.

16 PASSED, ADOPTED AND APPROVED this 21st day of November,
17 1990.

18 APPROVED:

19
20 By 
21 RON LURIE, MAYOR OK 11-26-90 RALW

21 ATTEST:
22 
23 KATHLEEN M. TIGHE, CITY CLERK
24
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The above and foregoing ordinance was first proposed and read by title to the City Council on the 17th day of October, 1990, and referred to the following committee composed of Councilmen Miller and Higginson for recommendation; thereafter the said committee reported favorably on said ordinance on the 21st day of November, 1990, which was a regular meeting of said Council; that at said regular meeting, the proposed ordinance was read by title to the City Council as first introduced and adopted by the following vote:

VOTING "AYE": Councilmen Adamsen Higginson, Miller, and Mayor Lurie

VOTING "NAY": NONE

ABSENT: Councilman Nolen

APPROVED:

By RON LURIE, MAYOR
OK 11-26-90 RAW

ATTEST:


KATHLEEN M. TIGHE, CITY CLERK

CITY OF LAS VEGAS
SWIMMING POOL/SPA CODE,
1990 EDITION

ARTICLE 1
ADMINISTRATION

SEC. 1.0 TITLE

The provisions herein shall be known as the City of Las Vegas 1988 Swimming Pool/Spa Code, 1990 Edition, and will be referred to as "this Code".

SEC. 1.1 PURPOSE

The purpose of this Code is to provide minimum requirements and standards for the protection of public health, safety and welfare. This Code shall not be construed so as to limit the application of other applicable statutes, ordinances and regulations.

SEC. 1.2 SCOPE

The provisions of this Code shall apply to the erection, installation, alteration, addition, repair, relocation, replacement, maintenance or use of any swimming pool, or spa system except as otherwise provided for in this Code. The provisions of this Code shall not apply to water used in decorative landscaping, natural or artificial lakes or other water uses not associated with bathing.

SEC. 1.3 EXISTING INSTALLATIONS

(a) Any swimming pool/spa system lawfully installed prior to the effective date of this Code may have its existing use, maintenance or repair continued if the use, maintenance or repair is in accordance with the original design and location and no hazard to the public health, safety or welfare has been created by such system.

(b) The owner or his designated agent shall be responsible for the maintenance of the swimming pool/spa system in a safe and sanitary condition.

SEC. 1.4 AUTHORITY TO ABATE

(a) Any portion of a swimming pool/spa found to be unsafe and/or insanitary as defined herein is hereby declared to be a nuisance.

(b) Where a nuisance exists or a system is maintained in violation of this Code or any notice issued pursuant to this section, the Administrative Authority shall require the nuisance or violation to be abated and where necessary shall seek such abatement in the manner provided by law.

SEC. 1.5 PERMIT REQUIRED

(a) It shall be unlawful for any person to install, remove, repair or replace or cause to be installed, removed, repaired or replaced, any swimming pool/spa in a building or premises without first obtaining a permit to do such work from the Administrative Authority.

(b) A separate permit shall be obtained for each building structure or swimming pool/spa.

EXCEPTION: Repairs and remodeling which involve only the replacement of component parts of existing work with similar materials and do not affect any structural, electrical, mechanical or plumbing installations.

SEC. 1.6 APPLICATION FOR PERMIT

(a) A permit application may be made by a person entitled to apply for and receive a permit, on forms provided for that purpose. The application shall include a description of the character of the work proposed to be done and the location, ownership, occupancy and use of the premises in connection therewith. The Administrative Authority may require plans, specifications or drawings and such other information as may be deemed necessary before issuance of a permit per Section 1.5 of this Code.

(b) An application for a permit for new construction shall be accompanied by plans as required by the Administrative Authority, and in sufficient detail, to include the following:

1. Plot plans dimensioned and drawn to a reasonable scale and showing at least the following:

(A) Property lines, easements, right-of-way of record, and overhead utilities over the property adjacent to the pool/spa area.

(B) Existing structures, fences, retaining walls, irregular grades, and other relevant characteristics adjacent to the pool/spa area.

(C) The proposed pool/spa shape and type, dimensioned and located to show setbacks, side yards and clearances from existing structures adjacent to the pool/spa area.

SEC. 1.6 APPLICATION FOR PERMIT continued

(D) The proposed mechanical equipment pad location in relation to setbacks and side yards.

(E) All diving and deck equipment items if included.

(F) The proposed deck work configuration showing its anticipated drainage.

(2) A structural plan showing at least the following:

(A) The type of construction.

(B) The pool/spa dimensions, including the depth, surface area, and adequate cross-sections drawn to scale.

(C) Computations, stress diagrams, and other data sufficient to show the correctness of the plans, including the reinforcing steel schedule and detail, if applicable.

(3) A mechanical plan showing at least the following:

(A) The volume, system flow rate in gallons per minute (GPM's), and turnover in hours.

(B) The type and size of filtration system and means of waste disposal.

(C) The type and size of the pool heater, including the method of venting and provisions for combustion air, if applicable.

(D) The pool piping layout and types of material to be used, and showing the location of the main outlet, surface skimmers and inlets.

(E) The rated capacity of the pool pump in GPM's at the design head with the size and type of motor indicated and identified as to type of pump.

(F) The means of adding make-up water.

SEC. 1.6 APPLICATION FOR PERMIT continued

(G) The size and length from source to heater and routing of the gas line, if applicable.

(H) The size and location of existing electrical service.

If the Administrative Authority determines that the plans, specifications, drawings, descriptions, or information furnished by the applicant are in compliance with this Code, the permit applied for shall be issued upon payment of the required fee.

The Administrative Authority shall further require that permits be obtained by the persons responsible for all of the electrical, plumbing, related utility connections and heating work in conjunction with issuance of the building permit for the swimming pool/spa structure.

The above-requirements shall not void any requirements by any other department or agency having jurisdiction.

All plans and documents submitted shall be on substantial paper and shall show the name and address of the person under whose supervision the documents were prepared.

ARTICLE II
DEFINITIONS

ACCESSIBLE:

Easily exposed for inspection and the replacement of materials and/or parts with the use of simple tools, i.e. screwdriver, pliers or wrench.

ADMINISTRATIVE AUTHORITY:

The Director of the Department of Building and Safety or his designee.

APPROVED:

Acceptable to the Administrative Authority.

BUILDING OFFICIAL:

The Director of the Department of Building and Safety or his designee.

CARTRIDGE:

A replaceable porous element.

DECKS:

Those areas surrounding a pool/spa which are specifically constructed or installed for use by bathers.

DEEP AREAS:

Portions of a pool/spa having water depths in excess of four (4) feet.

EXISTING POOLS/SPAS:

Pools/spas in existence and those for which a permit to construct has been obtained and construction commenced on or before the effective date of this Code.

FILTER:

A device that separates solid particles from water by recirculating it through a porous substance (a filter media or element).

FILTER CYCLE:

The operating time between cleaning and/or backwash cycles.

FILTRATION FLOW:

The rate of flow, in volume per time (LPM, LPH), through the filter system installed per manufacturer's instructions with a new clean media.

FILTRATION RATE:

The rate of filtration of water through a filter during the filter cycle expressed in U.S. gallons per minute per square foot of effective filter area.

HEALTH DISTRICT:

The Clark County Health District.

POOLS:

ABOVE-GROUND POOL: a pool of any shape that is deeper than 24" or holds more than 2,500 gallons of water or has a water surface area in excess of 150 square feet. The above-ground pool is located entirely above ground and has a constant depth.

IN-GROUND POOL: any pool whose sides reside partially or fully below the natural ground level.

NON-PERMANENTLY INSTALLED POOL: a pool that is so constructed that it may be readily disassembled for storage and reassembled to its original integrity, and is not permanently attached to plumbing or electrical services.

PUBLIC POOL: any pool, other than a residential pool, which is intended to be used for swimming or bathing and is operated by an owner, lessee, operator, licensee, or concessionaire, regardless of whether a fee is charged for use.

RESIDENTIAL POOL: Any pool which is intended for non-commercial use as a swimming pool by not more than one owner family and their guests and which is over 24" in depth and has a surface area exceeding 150 square feet.

WADING POOL: An artificially constructed portable or permanent water container used for wading, which at its deepest point is not over twenty-four inches (24"). Any such container that is deeper than twenty-four inches (24") or that has a volume more than one hundred and fifty (150) cubic feet of water shall, for the purposes of this Code, be classified as a spa or a swimming pool and shall be subject to the regulations pertaining thereto.

SPA: An artificially constructed body of water, either portable or permanent, designed for recreational or therapeutic use that is not drained, cleaned or refilled for each individual use. It may include, but is not limited to hydrojet circulation, hot water, cold water, mineral baths, air induction bubbles, or any combination thereof. It shall not include facilities used by or under the direct control of licensed medical personnel. The terms that are used in this Article to describe the various types of pools shall also apply to spas, as the context requires.

SHALLOW AREAS:

Portions of a pool/spa ranging in water depth from 3'0" to 4'0".

STEPS, RECESSED STEPS, LADDERS:

A means of entry and exit to and from the pool/spa that may be used in conjunction with each other.

STEPS: A riser/tread or series of risers/treads extending down from the deck into the pool/spa area.

RECESSED TREADS: A series of vertically spaced cavities in the pool/spa wall creating tread areas for stepholes.

LADDERS: A series of vertically separated treads or rungs either connected by vertical rail members or independently fastened to an adjacent vertical wall.

TURNOVER:

The period of time (usually in hours) required to circulate a volume of water equal to the pool/spa capacity.

ARTICLE III STRUCTURAL

SECTION 3

SEC. 3.1 REINFORCEMENT:

Structural pools and spas recessed two (2) or more feet below ground level shall be constructed of reinforced concrete conforming or other approved materials conforming to the Uniform Building Code. The minimum size of steel reinforcement for pools or spas less than one thousand (1,000) square feet of water surface area and not over eight feet (8') in depth shall be as provided in Table 3-A. The minimum compressive strength of concrete taken at twenty-eight (28) days shall be not less than two thousand five hundred (2,500) pounds per square inch.

SEC. 3.1 TABLE 3-A REINFORCEMENT:

Depth in feet	Steel Reinforcement		Concrete Thickness		
	Vertical	Horizontal	Bond Beam	Wall & Floor	Bond Beam
0 to 3 feet	#3 @ 12"o.c.	#3 @ 12"o.c.	3#4	6"	12"x12
0 to 6 feet	#3 @ 6"o.c.	#3 @ 12"o.c.	contin.	6"	12"x12
over 6 feet	#3 @ 6"o.c.	#3 @ 6" o.c.	contin.	6"	12"x12

Equally proportioned steel reinforcement conforming to A.S.T.M. 615 grade 40 or better, or different sizes may be used providing spacing does not exceed three (3) times concrete thickness.

SEC. 3.2 STEPS AND STAIRWAYS:

(a) There shall be at least one (1) stairway located in the shallow part of each pool.

(b) Steps, recessed steps, ladders, recessed treads or underwater seat benches/swimouts shall be provided at the deep portion of a pool if the water depth is over four feet (4').

SEC. 3.2 STEPS AND STAIRWAYS continued

(c) For pools or water areas over thirty feet (30') in width both sides of the pool or area shall be served by providing additional steps, recessed steps, ladders or recessed treads or underwater seat benches/swimouts.

(d) Steps and stairways for entering or exiting a pool shall be of such construction as to minimize hazards. Convex, semi-circular, or triangular steps shall have rounded corners. Treads of ladders and/or steps shall be of a non slip surface.

(e) Step treads shall have a minimum unobstructed horizontal tread depth of ten inches (10") for a minimum continuous width of twelve inches (12"). When the bottom tread serves as a bench or seat, the bottom riser may be a maximum of fourteen inches (14"). Step holes shall have a minimum tread of five inches (5") and a minimum width of fourteen inches (14"). Step hole treads shall drain into the pool to prevent the accumulation of dirt thereon.

SEC. 3.3 DECKS

A deck of at least thirty inches (30") in width shall be placed adjacent to any pool, and be of slip-resistant material, easily cleaned. Decks and runways shall slope one-fourth (1/4th) inch per foot, away from the pool and grading around the pool, and shall be such that surface runoff shall be diverted from the pool.

SEC. 3.4 WATER SLIDES, FOUNTAINS

Water slides, fountains or other structures may be placed adjacent to a pool. If more than fifty percent (50%) of one side of the pool is lost, the pool shall be provided with a suitable hand hold along the perimeter of the affected area where water depth exceeds three feet (3').

SEC. 3.5 WATER SLIDES: Decks (Public Only)

1. A deck must be provided along the exit side of the splash pool and along one or more of the other sides of the pool. The pump and reservoir area must be accessible by a deck not less than three feet wide (3').

2. All decks must be sloped at not less than 1/4 inch per foot to drains or approved surface water disposal areas.

3. If deck drains are provided, they must have an inlet opening of not less than four inches (4") in diameter.

SEC. 3.6 HANDHOLDS

Hand holds shall be provided no further apart than four feet (4') and may consist of any one or combination of the following:

- (a) coping, ledge, or deck that is not higher than twelve inches (12") above the water line.
- (b) ladders, steps, or seat ledges.
- (c) A rope or railing placed at or not over twelve inches (12") above the water line fastened to the wall.

SEC. 3.7 HANDHOLDS (Public Only)

1. Every pool must be provided with a handhold around the entire perimeter of the pool, such as a perimeter overflow system, bull-nosed coping of cantilevered decking, installed not more than nine inches (9") above the waterline.

2. For special purpose pools used for instruction or competitive swimming, a handhold at water level similar to the rim of a perimeter overflow system is required.

3. If a perimeter overflow system is not provided, bull-nosed coping, cantilevered decking of reinforced concrete or material equivalent in strength and durability must be provided. The coping, decking or other material must have rounded, slip-resistant edges, and must not exceed three and one-half inches (3 1/2") in thickness. The overhang of the coping, decking or other material must not exceed two inches (2") nor be less than one inch (1").

SEC. 3.8 DECKS (Public Only)

1. Except as otherwise provided in this subsection and in NAC 444.196 and 444.195, a clear, unobstructed deck must be provided around the entire perimeter of a pool. In no case may the width of the deck be less than four feet (4'). A deck may be obstructed for a distance equal to not more than 10 percent of the perimeter of the pool if:

- (a) the design of the obstruction does not endanger the health or safety of persons using the pool;
- (b) an unobstructed area of deck not less than four feet (4') wide is provided around or through the obstruction not more than fifteen feet (15') from the edge of the pool; and
- (c) written approval for the obstruction is obtained from the health authority before construction or installation of the obstruction.

SEC. 3.8 DECKS (Public Only) continued

2. The paved area of a deck must extend not less than four feet (4') from both sides and rear of any diving board or its appurtenances.

3. The surface of a paved deck must not drain into the pool or the overflow gutter. Drainage must be conducted from the deck in a manner that will not create muddy, hazardous or objectionable conditions. Decks must slope on a minimum slope of 1/4 inch per foot (2 percent) to the drains to points at which the water will have a free, unobstructed flow to points of disposal at all times. If deck drains are provided, they must be spaced or arranged so that not more than 400 square feet of area is tributary to each drain and drains must not be more than twenty-five feet (25') apart. Drainage from the decks must not be returned to the recirculation system.

4. The deck must have a slip-resistant surface that can be cleaned by hosing and causes no discomfort to bare feet.

5. Provision must be made to prevent the drainage of materials from lawns or landscaped areas onto the pool decks or into the pool.

SEC. 3.9

Spas need not be provided with a deck unless fully buried in the ground. The grading shall be such that surface runoff shall be diverted from the spa.

SEC. 3.10 DIVING AREA (Public Only)

1. The area of a pool where diving is permitted must be, in the case of a rectangular pool, at one end, or may be in a recessed area forming one of the legs of a T, L or Z shaped pool, separated from the main swimming area by a lifeline, or may be a wholly separate structure. An exception to this requirement may be made in the case of a special purpose pool.

2. Pools where diving is permitted must have adequate area and depth of water for safe diving, and the minimum depth and area characteristics for this area must be as indicated in the following charts.

SEC. 3.10 DIVING AREA (Public Only) continued

3. Diving towers in excess of three meters in height are not acceptable in a pool without special provisions, controls, and definite limitations on their use. Where such boards, towers, or platforms are permitted, their use must be limited to adequately trained personnel and not open to the general public.

4. Diving boards, towers, and platforms must have a slip-resistant finish and if covered with absorbent material, these covers must be disinfected daily.

5. At least sixteen feet (16') of free, unobstructed clearance must be provided above diving boards and platforms.

6. Supports, platforms, and steps for diving boards must be of substantial construction and of sufficient structural strength to safely carry the maximum anticipated loads. Steps must be of corrosion resistant material, easily cleanable, and of slip-resistant design.

7. All stairs entering a pool must be recessed into the walls of the pool and a guardrail must be provided in the walkway around the stairwell. An exception to this will permit the construction of steps at the shallow end of the pool. An approved handrail must be provided for each set of stairs.

SEC. 3.11 SPRINGBOARDS AND DIVING PLATFORMS

There shall be a minimum of fourteen feet (14') of clearance above any springboard or diving platform. The depth of the area adjacent to the springboard or diving platform shall not exceed the safe limits in Table 3-B. This safe depth shall extend from the pool wall under the springboard or diving platform at least fifteen feet (15') horizontally but beyond the extremity of the springboard or diving platform at least the horizontal distance shown in Table 3-B.

SEC. 3.12 TABLE 3-B - REQUIRED CLEARANCES ABOVE SPRINGBOARDS
AND DIVING PLATFORMS

Elevation of spring-board or diving platform above level of water	Minimum safe depth of water	Minimum horizontal distance from extremity of diving platform or springboard
1 foot	5 feet	10 feet
3 feet	6 feet	10 feet
5 feet	7 feet	13 feet
7 feet	8 feet	16 feet
10 feet	9 feet	20 feet 6 inches

NOTE: As the elevation of the diving platform exceeds ten feet (10'), the horizontal distance from the extremity of the diving platform shall increase at the rate of one and one-half ($1\frac{1}{2}$) times the height. Heights above three feet (3') plus ten feet (10') and the safe depth of water shall lower at the rate of one-third ($\frac{1}{3}$ rd) times the height of the diving platform above ten feet (10') plus nine feet (9').

EXCEPTION: Public Pools exempt from Sec. 3.11 and 3.12 covered under Public Bathing Regulations N.A.C.

SEC. 3.13

Pool/spa walls and floors shall be so designed and constructed so as to be structurally sound under the condition of the site. The pool/spa walls and floor shall be constructed of smooth, nonabsorbent materials, free from cracks, and drained through one or more metal grate openings. A tight leak proof pool/spa with easily cleanable surface shall be provided. The inner surface of the pool/spa must be coved, rounded, or bullnosed at all joints, corners, angles of bases, walls, floors or curb. No sharp corners or projections will be permitted. Floor drains and deck drains shall be flush with the finished surface. The materials used in wall and floor construction shall conform to the provisions of the Uniform Building Code. Rooms containing an indoor pool/spa shall be provided with natural light by means of windows or skylights equal to at least one-half ($\frac{1}{2}$) of the watered area of the pool/spa except that artificial lighting may be used in lieu thereof when approved by the Building Official.

SEC. 3.14

No private pool/spa shall have its bond beam closer than two feet (2') from any property or building line unless satisfactory evidence is submitted showing that no damage to the building will occur, nor any hazardous or unsafe condition will be created. No public pool/spa shall have its bond beam closer than two feet (2') to a property line nor nine feet (9') to a building line.

ARTICLE IV
PLUMBING REQUIREMENTS

SEC. 4.0

All drainage, water and gas piping, and water heating and treatment equipment shall conform to the provisions of the Uniform Plumbing Code, in the edition most recently adopted by the City and in accordance with other City ordinances.

SEC. 4.1

Prior to applying for a pool permit for a public facility, the applicant must obtain the approval of the Health District for all water treatment devices.

SEC. 4.2

Waste water from pools must be discharged to the public sewer through an indirect waste pipe into a plumbing fixture. Waste water from pool/spas may not be released to allow water to flow to neighboring property or to public streets or alleys, where space and conditions are such that no hazard, nuisance or insanitary condition is evidenced. Private pool/spa waste water may be used for irrigation. Spa waste water may be used for irrigation without having to provide the indirect waste connection.

SEC. 4.3

The water supply serving a pool/spa shall meet the requirements of the Las Vegas Valley Water District for potable water except that the appropriate authority may approve the use of water from natural sources.

SEC. 4.4 SAMPLING WATER (Public Only)

1. Samples of water from each public bathing or swimming facility must be submitted to the laboratory of the health division once a week for bacteriological testing. This requirement may be waived for facilities maintaining approved operating records and having dependable disinfection and filtration.

2. Not more than 15 percent of the samples must either:

(a) contain more than 200 bacteria per milliliter, as determined by the standards (35°C) agar plate count; or

(b) show positive test (confirmed test) for coliform organisms in any of the five 10milliliter portions of a sample or more than 1.0 coliform organisms per 50 milliliter if the membrane filter test is used.

3. All samples must be collected, dechlorinated, and examined in accordance with the procedures outlined in the latest edition of "Standard Methods for the Examination of Water and Wastewater" (APHA).

SEC. 4.5

All portions of the potable watersupply system serving the pool/spa and auxiliary facilities shall be protected against back-flow and back-siphonage.

SEC. 4.6

All pools/spas shall be provided with a minimum 1 1/4 inch full way valve to permit the pool to be completely and easily emptied. Outlets, except skimmers, on pump suction shall be covered with suitable protective grates that can not be removed except with tools. The total velocity through grate opening shall not exceed two feet (2') per second. The opening area in the grates shall be of such design as to prevent physical entrapment of body parts, hair, etc.

SEC. 4.7 DRAINS (Public Only)

1. All pools must be provided with a main drain at the lowest point of the floor of the pool to permit the pool to be completely and easily drained.

2. The distance of each main drain from:

(a) the nearest main drain must not exceed twenty feet (20') on the centers.

(b) any side wall must not exceed fifteen feet (15').

3. The sump of each main drain must be covered with a suitable protective cover or grate securely fastened in such a way that it cannot be removed without the use of tools. The openings in the grate must not exceed 1/2 inch in diameter. Except as otherwise provided in this subsection, the velocity of water through the grate must not exceed 1.5 feet per second. If only one main drain in the pool is connected to a pump:

(a) the drain must be of antivortex design.

(b) the velocity of water through the grate must not exceed six feet (6') per second.

4. The recirculation system must be designed to guard against outlet entrapment. Any of the following means may be employed:

(a) the system must include no fewer than two main drains, separated by not less than four feet (4'), and connected to pipes of equal diameter. The system must not permit any cutoff of either drain from the suction line.

(b) the system must include one or more antivortex outlet drains. Any drain installed at a depth of 4 1/2 feet or less must not present a tripping hazard to the bather.

(c) any other system, approved by the health authority, that guards against outlet entrapment.

SEC. 4.7 DRAINS (Public Only) continued

5. Valves or pumps used for draining pools must be sized to prevent the surcharging of the receiving drain. Multiport valves must:

(a) comply with all applicable requirements of Standard 50 of the National Sanitation Foundation. A copy of this standard may be obtained from the National Sanitation Foundation, P.O. Box 1468, Ann Arbor, Michigan 48106, at a cost of \$8.00.

(b) in the absence of an applicable standard, be approved by the health authority.

6. The main drains must be capable of taking at least 50 percent of the circulated flow.

7. As used in this section:

(a) "Antivortex drain" means a drain having a raised cover designed to prevent or minimize any suctioning effect on a person that comes into contact with the drain.

(b) "Multiport valve" means a separate switching valve that has a separate position for each of the various filter operations and that combines in one unit the functions of two or more direct-flow valves.

SEC. 4.8

Pool inlet(s) and outlet(s) for circulated water shall be located to produce uniform circulation of water and to facilitate the maintenance of a uniform disinfectant residual throughout the entire pool. Where skimmers are used, the inlet(s) shall be located so as to help bring floating particles within range of the skimmers. Inlets from the recirculation system shall be designed so as not to constitute a projecting surface hazardous to the bather.

SEC. 4.9

The number of inlet(s) shall be based on at least one (1) inlet per six hundred (600) square feet of pool area or at least one (1) inlet per fifteen thousand (15,000) gallons of pool capacity, whichever is greater.

SEC. 4.10 SKIMMERS

1. All pools/spas shall be provided with a means to permit the pool or spa to be completely and easily emptied. Outlets, except skimmers, on pump suction shall be covered with suitable protective grates that cannot be removed except with tools. The total velocity through grate openings shall not exceed two feet (2') per second. The opening area in the grates shall be of such design as to prevent physical entrapment of body parts, hair, etc.

2. Pool inlet(s) and outlet(s) for circulated water shall be located to produce uniform circulation of water and to facilitate the maintenance of a uniform disinfectant residual throughout the entire pool. Where skimmers are used, the inlet(s) shall be allocated so as to help bring floating particles within range of the skimmers. Inlets from the recirculation system shall be designed so as not to constitute a projecting surface hazardous to the bather.

3. The number of inlet(s) shall be based on at least one (1) inlet per six hundred (600) square feet of pool area or at least one (1) inlet per fifteen thousand (15,000) gallons of pool capacity, whichever is greater.

4. Where provided, the vacuum cleaner fitting(s) shall be located in accessible position(s) at least six inches (6") below minimum operating water level or as an integral part of the skimmer(s).

SEC. 4.11

Where provided, the vacuum cleaner fitting(s) shall be located in an accessible position(s) at least six inches (6") below minimum operating water level or as an integral part of the skimmer(s).

SEC. 4.12 INLETS (Public Only)

1. Except as otherwise provided in this subsection, inlets must be rounded and smooth and installed not less than eighteen inches (18") below the normal operating level and located to produce a uniform circulation, without the existence of dead spots. In the case of a shallow pool, an exception to this requirement may be granted by the health authority if inlets cannot be installed at the depth otherwise required.

SEC. 4.12 INLETS (Public Only) continued

2. Inlets must not extend from the pool wall or floor so as to create a hazard.

3. Each set of stairs must have an inlet to provide good circulation over the stairs.

4. When wall inlets are used, the distance between adjacent inlets must not exceed fifteen feet (15').

SEC. 4.13

A circulation system consisting of pumps, piping, overflows, skimmers, filters and other necessary equipment shall be provided for complete and continuous circulation of water throughout all parts of the pool.

The equipment shall be of adequate size to turn over the entire pool water capacity at least twice every twenty-four (24) hours or less for residential pools and eight hours or less for semi public or public pools. The filtering and recirculation system shall be operated at all times when the pool is in use.

SEC. 4.14 SYSTEM FOR RECIRCULATION (Public Only)

1. Except as otherwise provided in NRS 444.202 and NAC 444.198 to 444.1995 inclusive, a recirculation system, consisting of pumps, filters, water conditioning, disinfection equipment and other accessory equipment must be provided at each public bathing or swimming facility which will recirculate, clarify and disinfect the volume of water used in the facility every six (6) hours or less.

2. The patterns of recirculation developed in any pool must be partial flow through the main drain and the remainder through the overflow gutters or skimmers.

3. The recirculation system must include a vacuum gauge located on or immediately before the pump on the suction side of the system and a pressure gauge immediately after the pump on the pressure side of the system.

SEC. 4.14 SYSTEM FOR RECIRCULATION (Public Only) continued

4. The recirculation system must be operated at all times the facility is open for use and for not less than three (3) hours after the facility is closed. If the system is shut down for periodic maintenance and repair, no person who is not an employee of the facility may be allowed into the facility.

5. If time clocks are used to govern the operation of the recirculation system, they must be:

(a) used to govern the operation of any equipment, such as chemical disinfectant feeders, slurry feeders or heaters, dependent upon the flow of water within the system.

(b) reset immediately after any interruption in power.

SEC. 4.15 ACTIVITY POOLS (Public Only)

1. The recirculation and filtration systems of child amusement lagoons must have a maximum turnover cycle of one (1) hour.

2. Amusement devices used in activity pools must be designed and maintained so that their surfaces are smooth, nontoxic and easily cleanable. The devices must not pose a safety or health hazard to bathers and must not interfere with circulation or disinfection of the water.

SEC. 4.16 CHILD AMUSEMENT LAGOONS (Public Only)

1. The recirculation and filtration systems of child amusement lagoons must have a maximum turnover cycle of one (1) hour.

2. Amusement devices used in child amusement lagoons must be designed and maintained so that their surfaces are smooth, nontoxic and easily cleanable. The devices must not pose a safety or health hazard to bathers and must not interfere with circulation or disinfection of the water.

SEC. 4.17

The circulation system shall be operated for the necessary period to maintain water clarity and water chemistry sanitation requirements. Time clocks may be used to set the operating period. Fireman switches may be used to shut off pool heaters in advance of pump shut off.

SEC. 4.18

A skimming system shall be provided on all swimming pools. The skimming system shall be designed and constructed so that the water level of the pool is maintained within the range of the weir or the rim of the overflow gutter.

SEC. 4.19

When surface skimmers are used as the sole overflow system, one (1) surface skimmer shall be provided for each eight hundred (800) square feet or fraction thereof of the pool surface area. Nominal recessed areas, such as steps, swimouts, spas, etc., shall not be considered in the calculation. When two or more skimmers are used in a pool, they shall be located to maintain effective skimming action over the entire surface of the pool.

SEC. 4.20 SKIMMERS (Public Only)

1. Each pool must be provided with at least one skimming device for each 400 square feet, or fraction thereof, of the pool area.

2. There must be no fewer than two skimmers in every pool.

3. Skimming devices must:

(a) comply with all applicable requirements of Standard 50 of the National Sanitation Foundation. A copy of this standard may be obtained from the National Sanitation Foundation, P.O. Box 1468, Ann Arbor, Michigan 48106, at a cost of \$8.00.

(b) in the absence of an applicable standard, be approved by the health authority.

4. The total capacity of all skimmers must be a minimum of two-thirds of the required filter flow. Piping for skimmers must be designed for a capacity of at least 80 percent of the required filter flow of the recirculation system, and in no case less than 30 gallons per minute.

5. All inlets must be spaced at least five feet (5') away from any skimmer.

6. One skimmer must be placed at a point in the pool opposite the direction of prevailing summer winds.

SEC. 4.21

Where surface skimmers are used, they shall be installed in accordance with the manufacturer's instructions. Skimming devices shall not protrude from the wall into the swimming area.

SEC. 4.22 FILTER REQUIREMENTS - GENERAL

(a) Filters shall be designed to maintain pool water under anticipated operating conditions in accordance with SEC.4.10 of this Code.

(b) Filters shall be designed so that filtration surfaces can be easily restored to the design capacity. Filters shall be designed so that filtration surfaces can be inspected and serviced.

(c) Filter components, which require servicing, shall be accessible and available for inspection and repair when installed according to the manufacturer's instructions.

SEC. 4.23 HEATERS

(a) Pool/spa gas heaters must be AGA design certified and the rating data plate shall exhibit the AGA seal. This certification is to meet the latest ANSI 721.56 standards for swimming pool heaters.

(b) Electric heaters for pools shall be tested by an approved agency and listed for the purpose intended. Current collectors having a separate ground shall be installed at each inlet and outlet of the electrical heater.

(c) No pool/spa heater may be located in side yards unless evidence is provided to assure compliance with clearance required by the Uniform Mechanical Code, as adopted by the City, and shall be accessible for inspection and repair when installed according to the manufacturer's instructions. All pool/spa heaters located in any side yard shall conform to the clearances as required in the Uniform Mechanical Code, as adopted by the City.

**ARTICLE V
ELECTRICAL REQUIREMENTS**

SEC. 5.0

The requirements of the latest National Electrical Code, as adopted by the City, shall be followed for the wiring and grounding of all electrical equipment associated with a swimming pool/spa and the bonding and grounding of all metallic appurtenances.

SEC. 5.1

No pool/spa shall have its parts closer to electric supply or service drop conductors than the clearances provided in Section 680-8 of the National Electrical Code, as adopted by the City.

SEC. 5.2

Artificial lighting shall be provided for all public, semi public bathing areas, bathhouses, toilet rooms, dressing rooms and equipment rooms that are to be used at night or that do not have adequate natural light. Pools and spas shall be equipped with lighting facilities that will light all areas of the pool/spa as well as the entire volume of the pool/spa, with no blind spots. The lighting system for the outdoor pools/spas shall be designed with sources of illumination located so as to prevent insects attracted by lights from falling into water. Where underwater light is used, not less than one-half (1/2) watt per square foot of water surface area is required. Area lighting shall provide six-tenths (6/10 or .6) watt per square foot of deck area. Where underwater lighting is not employed, area and pool lighting combined shall be provided in an amount not less than two (2) watts per square foot of pool and deck area. Particular attention shall be given to the following articles of the National Electrical Code: 110-13 (a) - 680-6, 680-8, 680-22, 680-24, 680-25.

EXCEPTION: Where it can be shown the Administrative Authority may approve alternate lighting systems, i.e. halogen etc. of lower wattages if they are shown to be the equivalent of the wattages required above.

ARTICLE VI
POOL/SPA PROTECTIVE REQUIREMENTS

SEC. 6.1

Every pool and spa located within the City shall be completely surrounded by a fence or wall not less than five feet (5') in height from the opposite side of the fence of the yard or area containing the pool with no openings larger than four inches measured in any direction, except the measurements of a picket type (one composed primarily of vertical members) shall be measured in the horizontal direction between members.

Chainlink fences less than six feet may not be used as access barriers unless slats, woven wire mesh over the chainlink, or other approved means is used to prevent the openings from affording a climbing surface. Chainlink fences six feet or greater are acceptable without additional modification.

Fences less than six feet may not have any horizontal member within three feet of the top which provides a foothold for climbing.

SEC. 6.2

The perimeter fences or walls complying with Sec.6.1 along with a building structure may be used as part or all of such enclosure. All gates or doors opening through such enclosure shall be equipped with self-closing and self-latching devices. Such devices must be located at a minimum of four feet (4') in height on the pool side of the gate only to keep the gate or door securely closed at all times when not in actual use, except that the door of any dwelling which forms a part of the enclosure need not be so equipped.

Gate openings or doors shall be equipped with self-closing and self-latching devices, mounted on the inside, at four feet above the ground or floor level of the exterior side. These devices must be capable of keeping the gate or door securely closed and latched. EXCEPTION: Gates spanning an opening greater than eight feet need not be self-closing, but must be latching and comply with all other requirements.

SEC. 6.3

When gates or fences are constructed primarily of vertical members, a security barrier shall be provided on the gate and fence, which shall extend a minimum of a twenty inch (20") radius from the gate latch, thereby prohibiting unlatching from other than the pool side. The security barrier shall be constructed of metal plate, solid plastic or fiberglass panels, tight wire mesh or similar materials.

The required latching devices shall not be designed to be operable from outside the enclosed area except with a key-operated lock which is built integral with the gate; removable locks are unacceptable.

All required access barrier elements shall be in place prior to setting a manufactured pool or spa in place, or prior to:

- a. the filling of manufactured pools or spas;
- b. the pre-plaster inspection of a conventionally constructed pool or spa.

SEC.6.4.

The duty of providing and maintaining such enclosure shall be upon the person, association, firm or corporation occupying the parcel of land upon which the pool/spa is located, or upon the owner of the parcel of land if it is vacant or unoccupied.

SEC. 6.5

An indoor pool shall be maintained in a separate room of any building or if in a portion of a room, a protective barrier shall be used to enclose the pool utilizing whatever walls are available. In lieu of maintaining a wall or fence as set forth above, there may be provided a guard for the pool or spa who shall keep the same under observation at all times while water is kept therein. In the event the pool or spa is not under the observation of a guard at all times, a pool or spa cover, capable of supporting three hundred (300) pounds, or an alarm device that has been approved in writing by the Building Official, may be used. The Building Official is authorized and empowered to modify in individual cases the requirements of this section with respect to the nature and location of the fence, wall, gates or latches or the necessity therefor, upon showing good cause and satisfactory assurances that the degree of protection is not thereby reduced. The Building Official may also permit the use of protective devices or structures other than those specified herein as long as the degree of protection is not thereby reduced. This section applies only to those pools/spas whose intended use is limited solely to swimming or bathing.

SEC. 6.6 BARRIERS: EXCLUSION OF UNAUTHORIZED PERSONS (Public Only)

1. Provision must be made to exclude unauthorized persons from any pool or pool area. A pool must be surrounded by a fence, wall, building or other barrier that completely encloses the pool area and otherwise complies with the requirements of this section. No part of a pool enclosure may be used for common foot traffic.

2. The barrier must be impenetrable for small children and must not offer any external handholds or footholds.

3. In the case of a swimming pool operated solely for and in conjunction with a hotel, motel or other place of lodging, or a trailer park, apartment, condominium or other facility containing multiple dwellings, the barrier must be not less than five feet (5') in height. Courtyard-type concepts in which gates or doors open directly into a pool enclosure from a dwelling unit or hotel or motel room are not permitted. In any other case, the barrier must be not less than six feet (6') in height.

SEC. 6.6 BARRIERS: EXCLUSION OF UNAUTHORIZED PERSONS
(Public Only) continued

4. Any vertical members in the barrier must not be more than four inches (4") apart.

5. Any opening at the bottom of the barrier must not be more than four inches (4") in height.

6. Any gate or door that opens into the pool area:

(a) must be equipped with permanent locking devices and self-closing and positive self-latching mechanisms. Self-closing and self-latching mechanisms must be located not less than three-and one-half feet (3 1/2') above the ground.

(b) must self-close and positively self-latch from any open position.

(c) must not be blocked open or otherwise disabled to prevent closing and latching.

(d) must, in the case of an indoor pool, be made of metal and installed in a metal frame.

The operator of the pool shall periodically inspect each such gate or door to ensure that it is operating properly.

7. Facilities, such as large resort hotels, which have continuous 24-hour-a-day security of the pool area may be exempted from the requirements of this section.

8. Where existing construction prohibits compliance with the requirements of this section, the owner shall file with the health authority an operation procedure which will serve to ensure the exclusion of unattended small children from the pool.

SEC. 6.7 PERMIT FEES

A fee for each pool/spa or outside body of water shall be paid to the Building Official as set forth in Table 3-A of the Uniform Administrative Code, as adopted by the City. The determination of the value or valuation of the construction permitted under the provisions of this Article shall be made by the Building Official.

RECEIVED

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AFFIDAVIT OF PUBLICATION

CITY CLERK

PAS

BILL NO. 90-71
Ordinance No. 3544

ERE

AN ORDINANCE RELATING TO THE ERECTION, INSTALLATION, ALTERATION, ADDITION, REPAIR, RELOCATION, REPLACEMENT, MAINTENANCE AND USE OF SWIMMING POOLS AND SPAS; AMENDING TITLE 16, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY ADDING THERETO A NEW CHAPTER, TO BE ENTITLED "SWIMMING POOL/SPA CODE," ADOPTING BY REFERENCE THE "CITY OF LAS VEGAS SWIMMING POOL/SPA CODE, 1990 EDITION"; PROVIDING PENALTIES FOR THE VIOLATION HEREOF; AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH.

SPONSORED BY: Mayor Ron Lurie
SUMMARY: Adopts the 1990 Edition of Las Vegas Swimming Pool/Spa Code.

The above and foregoing ordinance was first proposed and read by title to the City Council on the 17th day of October, 1990, and referred to the following committee composed of Councilmen Miller and Higginson for recommendation; thereafter the said committee reported favorably on said ordinance on the 21st day of November, 1990, which was a regular meeting of said Council; that at said regular meeting, the proposed ordinance was read by title to the City Council as first introduced and adopted by the following vote:

VOTING "AYE" Councilmen: Adamson, Higginson, Miller, and Mayor Lurie.

VOTING "NAY" Councilmen: NONE

ABSENT: None

COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR

PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10TH FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.

PUB: November 24, 1990
Las Vegas Review-Journal/Sun

STATE OF NEVADA)
COUNTY OF CLARK)

SS:

CHRISTY A. FERGUSON, being first duly sworn, deposes and says:

That she/he is a legal clerk for the LAS VEGAS REVIEW-JOURNAL and THE LAS VEGAS SUN, daily newspapers regularly issued, published and circulated in the City of Las Vegas, County of Clark, State of Nevada, and that the advertisement, a true copy of which is attached, was continuously published in the LAS VEGAS REVIEW-JOURNAL or THE LAS VEGAS SUN for a period of ONE insertions from the period of NOVEMBER 24, 1990 to NOVEMBER 24, 1990, on the following days:

NOVEMBER 24, 1990

Signed:

Christy A. Ferguson

Subscribed and sworn to before me this

27th day of Feb., 19 91

Maria C. Therien

Notary Public

MARIA C. THERIEN
Notary Public-State of Nevada
CLARK COUNTY
My Appointment Expires May 11, 1994

AFFIDAVIT OF PUBLICATION

PASTE CLIPPING HERE

BILL NO. 90-71
AN ORDINANCE PROVIDING FOR THE ERECTION, INSTALLATION, ALTERATION, ADDITION, REPAIR, RELOCATION, REPLACEMENT, MAINTENANCE AND USE OF SWIMMING POOLS AND SPAS; AMENDING TITLE 16, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY ADDING THERETO A NEW CHAPTER, TO BE ENTITLED "SWIMMING POOL/SPA CODE," ADOPTING BY REFERENCE THE "CITY OF LAS VEGAS SWIMMING POOL/SPA CODE, 1990 EDITION"; PROVIDING PENALTIES FOR THE VIOLATION HEREOF; AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH.
SPONSORED BY:
Mayor Ron Lurie
SUMMARY: Adopts the 1990 Edition of the City of Las Vegas Swimming Pool/Spa Code.
AT A CITY COUNCIL MEETING OCTOBER 17, 1990
BILL NO. 90-71 WAS READ BY TITLE AND REFERRED TO RECOMMENDING COMMITTEE: Councilmen Miller and Higginson.
COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10TH FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.
PUB: November 1, 1990
Las Vegas Review-Journal

STATE OF NEVADA)
COUNTY OF CLARK) SS:

CHRISTY A. FERGUSON, being first duly sworn, deposes and says:

That she/he is a legal clerk for the LAS VEGAS REVIEW-JOURNAL and THE LAS VEGAS SUN, daily newspapers regularly issued, published and circulated in the City of Las Vegas, County of Clark, State of Nevada, and that the advertisement, a true copy of which is attached, was continuously published in the LAS VEGAS REVIEW-JOURNAL or THE LAS VEGAS SUN for a period of ONE insertions from the period of NOVEMBER 1, 1990 to NOVEMBER 1, 1990, on the following days:

NOVEMBER 1, 1990

Signed:

Christy A. Ferguson

Subscribed and sworn to before me this

1st day of Nov., 19 90

Maria C. Therien

Notary Public

MARIA C. THERIEN
Notary Public-State of Nevada
CLARK COUNTY
My Appointment Expires May 11, 1994

RECEIVED

FEB 28 9:09 AM '91

AFFIDAVIT OF PUBLICATION

CITY CLERK

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BILL NO. 90-71
Ordinance No. 354

AN ORDINANCE RELATING TO THE ERECTION, INSTALLATION, ALTERATION, ADDITION, REPAIR, RELOCATION, REPLACEMENT, MAINTENANCE AND USE OF SWIMMING POOLS AND SPAS; AMENDING TITLE 16, OF THE MUNICIPAL CODE OF THE CITY OF LAS VEGAS, NEVADA, 1983 EDITION, BY ADDING THERETO A NEW CHAPTER, TO BE ENTITLED "SWIMMING POOL/SPA CODE," ADOPTING BY REFERENCE THE "CITY OF LAS VEGAS SWIMMING POOL/SPA CODE, 1990 EDITION," PROVIDING PENALTIES FOR THE VIOLATION HEREOF; AND REPEALING ALL ORDINANCES AND PARTS OF ORDINANCES IN CONFLICT HEREWITH.

SPONSORED BY: Mayor Ron Lurie
SUMMARY: Adopts the 1990 Edition of Las Vegas Swimming Pool/Spa Code.

The above and foregoing ordinance was first proposed and read by title to the City Council on the 17th day of October, 1990, and referred to the following committee composed of Councilmen Miller and Higinson for recommendation; thereafter the said committee reported favorably on said ordinance on the 21st day of November, 1990, which was a regular meeting of said Council; that at said regular meeting, the proposed ordinance was read by title to the City Council as first introduced and adopted by the following vote:

VOTING "AYE" Councilmen: Adamsen, Higinson, Miller, and Mayor Lurie.
VOTING "NAY" Councilmen: NONE
ABSENT: None
COPIES OF THE COMPLETE ORDINANCE ARE AVAILABLE FOR

PUBLIC INFORMATION IN THE OFFICE OF THE CITY CLERK, 10TH FLOOR, CITY HALL, 400 EAST STEWART AVENUE, LAS VEGAS, NEVADA.

PUB: November 24, 1990
Las Vegas Review-Journal/Sun

STATE OF NEVADA)
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27th day of Feb., 19 91

Maria C. Therien

Notary Public

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CLARK COUNTY
My Appointment Expires May 11, 1994



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AFFIDAVIT OF PUBLICATION

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SPONSORED BY:
Mayor Ron Lurie
SUMMARY: Adopts the 1990 Edition of the City of Las Vegas Swimming Pool/Spa Code.
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PUB: November 1, 1990
Las Vegas Review-Journal

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