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**REVISIONS**  
11-16-2015 Revised per Beaufort Co. Comments

**NEW INDOOR COMMERCIAL POOL PLANS FOR**  
**Fairfield Inn and Suites**  
2090 W 15<sup>th</sup> Street, Washington, NC 27889  
Beaufort County

**HOT SPRINGS POOLS & SPAS**  
Since 1989

(864) 676-9400 (TELEPHONE)  
(864) 329-1548 (FAX)

578 WOODRUFF ROAD  
GREENVILLE, SC 29607

DRAWN BY:  
RBH

CHECKED BY:  
RRP

DATE:  
July 29, 2015

SCALE:  
AS NOTED

**SPECIFICATIONS**  
**SP - 7**

**PLANS ARE FOR POOL CONSTRUCTION ONLY.**  
ANY REQUIRED REVISED CONSTRUCTION DRAWINGS INCLUDING PLUMBING, MECHANICAL AND ELECTRICAL CHANGES NECESSARY FOR POOL PERMIT AND INSTALLATION ARE THE RESPONSIBILITY OF OTHERS

ALL BUILDING, EQUIPMENT & CHEMICAL ROOM NOTES AND SPECIFICATIONS ARE FOR COORDINATION AND INFORMATION ONLY.  
ELECTRICAL DATA IS FOR COORDINATION AND INFORMATION ONLY

NOTE:

**POOL ELECTRICAL REQUIREMENTS:**

ALL ELECTRICAL WORK, GROUNDING, AND BONDING SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE AND ALL LOCAL CODES.

ARTIFICIAL LIGHTING SHALL BE PROVIDED AT ALL POOLS THAT ARE TO BE USED AT NIGHT, OR WHEN NATURAL LIGHTING IS INSUFFICIENT TO PROVIDE VISIBILITY IN THE POOL AREA.

UNDERWATER LIGHTING SHALL BE GREATER THAN 0.5 WATTS OF INCANDESCENT LIGHTING PER SQ. FT. OF POOL AREA. WHEN APPLICABLE, DECK LIGHTING SHALL PROVIDE NOT LESS THAN 10 FOOT CANDLES OF LIGHT MEASURED AT 8 INCHES ABOVE DECK SURFACE. FIXTURES SHALL BE DESIGNED TO ILLUMINATE ALL PARTS OF THE POOL, THE WATER, THE DEPTH MARKERS, SIGNS, ENTRANCES, RESTROOMS, SAFETY EQUIPMENT AND THE REQUIRED DECK AREA AND WALKWAYS.

ALL ELECTRICAL CIRCUITS WITHIN THE POOL AREA ARE TO BE PROVIDED WITH GROUND-FAULT-INTERRUPTERS (GFI). THE POOL AREA IS DEFINED AS THE ENCLOSED AREA INCLUDING THE TOILET FACILITIES, EQUIPMENT ROOM, CHEMICAL STORAGE, ETC.

ANY OVERHEAD WIRING NOT IN CONDUIT SHALL BE TWENTY (20) FEET (AT LEAST) HORIZONTALLY AWAY FROM THE POOL. NO LIGHT FIXTURES ARE ALLOWED DIRECTLY OVER THE WATER SURFACE.

ALL ELECTRICAL WORK SHALL COMPLY WITH ARTICLE 680-- SWIMMING POOLS, CURRENT NATIONAL ELECTRICAL CODE. ALL ELECTRICAL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR. THE ELECTRICIAN AND ALL ELECTRICAL WORK IS FURNISHED BY THE PROJECT'S GENERAL CONTRACTOR.

WIRING METHODS: ALL CONDUIT SHALL BE NON METALLIC RIGID CONDUIT, OR NONMETALLIC FLEXIBLE CONDUIT WITH WATER TIGHT CONNECTIONS PER ARTICLE 680, CURRENT N.E.C. ALL DISCONNECTING MEANS SHALL BE WITHIN FIVE (5) FEET OF THE CONTROLLED DEVICE. ALL CONDUCTORS TO BE INSULATED COPPER, EXCEPT FOR BONDING CONDUCTOR. UNDER WATER LIGHT JUNCTION BOXES SHALL BE LISTED FOR THIS SERVICE AND SHALL BE WATER TIGHT AND CORROSION RESISTANT WITH GROUNDING LUGS INTERNAL TO THE BOX. ALL UNDERGROUND CONDUIT SHALL BE NONMETALLIC, RIGID PVC CONDUIT AND FITTINGS, BURIAL TO BE A MINIMUM OF 18 INCHES. UNDERGROUND CONDUITS SHALL BE INSTALLED A MINIMUM OF 6 FEET AWAY FROM THE POOL WALLS, EXCEPT FOR BRANCH CONDUITS INTO THE WET-NICHE LIGHT FIXTURES. WET-NICHE FIXTURES: (POOL LIGHTS), CONDUIT SHALL BE NONMETALLIC RIGID PVC WITH A JUNCTION BOX OFF THE EDGE OF THE DECK, APPROXIMATELY 12 INCHES ABOVE THE HIGHEST POOL WATER LEVEL. JUNCTION BOX TO BE WATER TIGHT AND CORROSION RESISTANT. A #8 INSULATED COPPER GROUNDING CONDUCTOR SHALL BE INSTALLED BETWEEN THE WET-NICHE AND THE JUNCTION BOX, AND SHALL CONNECT TO THE WET-NICHE INTERIOR GROUNDING LUG AND THE PANEL BOARD GROUNDING TERMINAL. THE CONNECTION IN THE NICHE SHALL BE ENCAPSULATED WITH A LISTED 3M POTTING COMPOUND RESISTANT TO POOL WATER.

BONDING: THE FOLLOWING PARTS SHALL BE BONDED TOGETHER WITH A #8 OR LARGER SOLID BONDING CONDUCTOR USING DIRECT BURIAL BONDING CLAMPS AS REQUIRED.

REINFORCING STEEL IN THE POOL SHELL: STEEL IS CONSIDERED TO BE A PROPERLY TIED COMMON BONDING GRID.

WET-NICHE LIGHT FIXTURE HOUSINGS INSTALLED IN THE POOL SHELL.

HANDRAIL AND LADDER ANCHORS IN THE POOL DECK.

METAL COMPONENTS OF THE POOL CIRCULATION SYSTEMS, INCLUDING THE PUMP MOTORS.

ANY OTHER METAL CONDUITS, PIPING OR STRUCTURES THAT ARE WITHIN FIVE (5) FEET HORIZONTALLY OF THE POOL WALLS.

GROUNDING:

EQUIPOTENTIAL BONDING, SEE CURRENT N.E.C. ARTICLE 680.26, INCLUDING THE CONTOUR OR THE POOL AND THE POOL DECK EXTENDING 3 FEET HORIZONTALLY FROM THE INSIDE WALLS OF THE POOLS.

WET-NICHE LIGHT FIXTURES AND JUNCTION BOXES SHALL BE CONNECTED TO THE PANEL BOARD GROUNDING TERMINAL WITH AN INSULATED #12 COPPER GROUNDING CONDUCTOR.

POOL ASSOCIATED MOTORS SHALL BE CONNECTED TO THE PANEL BOARD GROUNDING TERMINAL WITH AN INSULATED #12 COPPER GROUNDING CONDUCTOR.

POOL EQUIPMENT PANEL BOARD GROUNDING TERMINAL SHALL BE GROUNDED TO THE SERVICE PANEL EQUIPMENT GROUNDING TERMINAL WITH A PROPERLY SIZED INSULATED COPPER GROUNDING CONDUCTOR, SEE CURRENT N.E.C. TABLE 250.122, BUT NOT LESS THAN A #12 GROUNDING CONDUCTOR.

INTERACTIVE PLAY ATTRACTIONS: (WHEN APPLICABLE) SHALL BE CONSTRUCTED AND OPERATED IN ACCORDANCE WITH THE RULES AND SECTION 15A NCAC 18A .2543 AND SHALL COMPLY WITH THE FOLLOWING:

- RECIRCULATION SYSTEM SHALL CONTAIN A WATER CAPACITY EQUAL TO AT LEAST THREE (3) MINUTES OF MAXIMUM FLOW OF ALL FEATURE PUMPS AND FILTER CIRCULATION PUMPS COMBINED AND SHALL NOT BE LESS THAN 1,000 GALLONS.
- ACCESS SHALL BE PROVIDED TO THE SURGE WATER CONTAINER
- FILTER CIRCULATION SYSTEM SHALL BE PROVIDED AND SHALL BE SEPARATED FROM THE FEATURE PUMP SYSTEM.
- THE FILTER CIRCULATION SYSTEM SHALL DRAW WATER FROM A VARIABLE HEIGHT SKIMMER AND BOTTOM DRAIN LOCATED NO MORE THAN 9" FROM THE BOTTOM OF THE CONTAINER.
- THE FILTER CIRCULATION SYSTEM SHALL FILTER AND RETURN THE ENTIRE WATER CAPACITY IN NO MORE THAN 30 MINUTES AND SHALL OPERATE 24 HOURS A DAY.
- AUTOMATIC CHEMICAL CONTROLLERS SHALL BE PROVIDED TO MONITOR AND ADJUST THE DISINFECTANT RESIDUAL AND PH OF THE WATER CONTAINED IN THE SYSTEM
- THE DISINFECTANT RESIDUAL SHALL BE MAINTAINED AT A LEVEL OF AT LEAST TWO PARTS PER MILLION FREE CHLORINE. CHLORINE FEEDERS SHALL BE CAPABLE OF PRODUCING 12 PARTS PER MILLION OF FREE CHLORINE IN THE FILTER CIRCULATION PIPING.
- VALVES SHALL BE PROVIDED TO CONTROL WATER FLOW TO THE FEATURES IN ACCORDANCE WITH THE MANUFACTURERS' SPECIFICATIONS.
- SPLASH ZONES SHALL BE SLOPED TO DRAINS SIZED AND LOCATED TO REMOVE ALL FEATURE WATER TO THE SURGE TANK WITHOUT WATER ACCUMULATING ON THE SURFACE.
- DECK OR WALKWAY SPACE IS NOT REQUIRED OUTSIDE THE SPLASH ZONE
- DRESSING AND SANITARY FACILITIES SHALL BE PROVIDED.
- INTERACTIVE PLAY FEATURES SHALL NOT BE REQUIRED TO HAVE A FENCE EXCEPT THE WADING POOL FENCE REQUIREMENTS SHALL APPLY IF LOCATED INSIDE A SWIMMING POOL ENCLOSURE.
- SAFETY PROVISIONS OF RULE .2530 SHALL NOT APPLY EXCEPT A SIGN SHALL BE POSTED PROHIBITING PETS AND GLASS CONTAINERS.

**SAFETY PROVISIONS**

LIFE SAVING EQUIPMENT: TO BE CONSPICUOUSLY AND CONVENIENTLY ON HAND AT ALL TIMES.  
MINIMUM 12 FOOT POLE WITH BODY HOOD SECURELY ATTACHED. POOL TO BE NON-TELESCOPIC, NON-ADJUSTABLE AND NON-COLLAPSIBLE  
- U.S. COAST GUARD APPROVED RING BUOY WITH MINIMUM 1/4 INCH DIAMETER THROWING ROPE AS LONG AS 1 1/2 THE WIDTH OF THE POOL OR 50 FEET WHICHEVER IS THE LESS. PER SECTION .2530.

SIGNS - ALL SIGNS TO BE PERMANENTLY MOUNTED IN CONSPICUOUS LOCATION (S)  
"POOL RULES" SIGN WITH MINIMUM 1" LETTERING, PER SECTION .2530  
"NO LIFE GUARD" SIGN WITH MINIMUM 4" LETTERING, PER SECTION .2530  
"SHOWER BEFORE" SIGN, PER SECTION .2529

PHONE -  
TELEPHONE SHALL BE PROVIDED, BY GENERAL CONTRACTOR, PER SECTION .2530  
- SHALL BE PERMANENTLY AFFIXED TO A LOCATION INSIDE POOL AREA OR WITHIN 75 FEET OF POOL ENTRANCE  
- THE PHONE MUST BE VISIBLE FROM THE POOL ENCLOSURE OR A SIGN MUST BE POSTED INDICATING THE LOCATION OF THE EMERGENCY PHONE  
- SIGN WITH LEGIBLE LETTERS POSTED AT PHONE PROVIDING DIALING INSTRUCTIONS, PHONE NUMBER AND ADDRESS OF POOL LOCATION

**DECK SPECIFICATIONS**

ALL CONSTRUCTION TO CONFIRM TO CURRENT NORTH CAROLINA REGULATIONS, 15A NC ADMINISTRATIVE CODE, 18A.2500.

POOL COPING TO BE AS STATED ON PLANS AND SHALL BE NON-SLIP AND POSE NO HAZARD TO BARE FEET. COPING TO PROVIDE HAND HOLD AT EDGE OF POOL.

POOL DECK SHALL BE AS STATED ON PLANS, SHALL BE NON-SLIP AND POSE NOT HAZARD TO BARE FEET. DECK TO HAVE ALL CORNERS AND EDGES SMOOTH AND FREE OF SNAGS.

INDOOR POOLS SHALL HAVE A CONTINUOUS DECK AT LEAST FIVE (5) FEET CLEAR WALKING SPACE AROUND POOL. SPAS SHALL HAVE A CONTINUOUS FOUR (4) FEET CLEAR WALKING SPACE AROUND AT LEAST ONE HALF WAY AROUND THE SPA. SEE PLAN

DECK SHALL SLOPE A MINIMUM OF 1/4" TO A MAXIMUM OF 1/2" PER FOOT AWAY FROM THE POOL.

DECK DRAINS WITH REMOVABLE COVERS SHALL BE PROVIDED TO ELIMINATE ANY STANDING WATER ON THE DECK. DRAIN WATER SHALL BE TO WASTE. SEE POOL PLANS.

HOSE BIBBS WITH VACUUM BREAKERS SHALL BE PROVIDED AROUND POOL SUCH THAT ALL PARTS OF THE DECK CAN BE REACHED WITH A 100 FT. HOSE. HOSE BIBBS SHALL BE NOT LESS THAN 10" ABOVE DECK AND NOT MORE THAN 24" ABOVE DECK.

AUTOMATIC SHUTOFF SHOWERS SHALL BE PROVIDED AT THE MAIN ENTRANCE TO THE POOL. SEE POOL PLAN.

DEPTH MARKERS AND "NO DIVING" MARKERS AS SPECIFIED BY J. DAVIS ARCHITECT, SEE DETAIL 6, SHEET LA3.1 AND SPACED AS SHOWN ON SP-2. DECK DEPTH MARKERS SHALL BE LOCATED DIRECTLY ABOVE THE WATERLINE TILE DEPTH MARKERS. DECK MARKERS SHALL BE SIX (6) INCH X SIX (6) INCH NON-SLIP TILE WITH "FT" MARKER INCLUDED. "NO DIVING" TILE TO BE LOCATED AS SPECIFIED BY J. DAVIS ARCHITECT, SEE DETAIL 6, SHEET LA3.1 AND SPACED AS SHOWN ON SP-2. SEE DETAIL AND PLAN

HEATED POOLS - MAXIMUM OPERATING TEMPERATURE NOT TO EXCEED 90 DEGREES FAHRENHEIT.

**ENCLOSURE SPECIFICATIONS**

GENERAL CONTRACTOR SHALL PROVIDE A MINIMUM ENCLOSURE AROUND POOL AND DECK, WITH GATES THAT CLOSE AUTOMATICALLY, OPEN OUTWARD, AND CAN BE LOCKED. PER NC DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL 15A NCAC 18A .2528 SEE SHEET LA1.1 AND DETAIL 4 LA3.1 BY J DAVIS ARCHITECTS

- Public Swimming pools shall be completely enclosed by a fence, wall, building, or other enclosure, or any combination thereof, which encloses the swimming pool area such that all of the following conditions are met:
  - The top of the barrier shall be at least 48 inches above grade measured on the side of the barrier that faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be two (2) inches measured on the side of the barrier that faces away from the swimming pool;
  - Openings in the barrier shall not allow passage of a 4-inch-diameter sphere and shall provide no external handholds or footholds. Solid barrier that do not have openings shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints;
  - Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches or more, spacing between the vertical members shall not exceed 4 inches. Where there are decorative cutouts within the vertical members, spacing within the cutouts shall not exceed 1.75 inches in width;
  - Where the barrier is composed of horizontal and vertical members and the distance between the horizontal members is less than 45 inches, the horizontal members shall be located on the swimming pool side of the fence. Spacing between the vertical members shall not exceed 1.75 inches in width. Where there are decorative cutouts within the vertical members, spacing within the cutouts shall not exceed 1.75 inches in width;
  - Maximum mesh size for chain link fences shall be a 2.25 inch square unless the fence is provided with slats fastened at the top or bottom that reduce the openings to no more than 1.75 inches;
  - Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall be no more than 1.75 inches;
  - Access gates shall comply with the dimensional requirements for fences and shall be equipped to accommodate a locking device. Pedestrian access gates shall open outward away from the pool and shall be self-closing and have a self-latching device except where a gate attendant and lifeguard are on duty. Gates other than pedestrian access gates shall have a self-latching device. Where the release mechanism of the self-latching device is located less than 54 inches from the bottom of the gate, the release mechanism shall require the use of a key, combination or card reader to open or shall be located on the pool side of the gate at least 3 inches below the top of the gate, and the gate and barrier shall have no openings greater than 0.5 inch within 18 inches of the release mechanism; and
  - Ground level doors and windows opening from occupied buildings to inside the pool enclosure shall be self-closing or child protected by means of a barrier or audible alarm. Where double doors are provided, each door shall latch independently or one door shall be permanently affixed to receive the latching mechanism of the other. Doors opening into the pool enclosure shall have a latch release height of 54 inches or shall be child protected by means of an audible alarm or shall be locked such that a key, combination or access card is needed to gain entry to the pool. Doors from occupied buildings opening into the pool enclosure shall open away from the swimming pools except where emergency egress is required by building or fire codes to open outward from the building. Where emergency exits open toward the pool, each door shall be equipped with an alarm that produces an audible warning when the door and its screen are opened. The alarm shall sound continuously for a minimum of 30 seconds immediately after the door is opened and be capable of being heard throughout the building. The Alarm shall automatically reset under all conditions. The alarm shall be equipped with a manual means to temporarily deactivate the alarm for a single opening. Such deactivation shall last no more than 15 seconds. The deactivation switch shall be located at least 54 inches above the threshold of the door

**SPA SPECIFICATIONS (WHEN APPLICABLE)**

- SPA TEMPERATURE FOR HEATED SPAS MUST HAVE A THERMOSTAT CONTROL PROVIDED WITH AN AUTOMATIC CUT-OFF FOR AN UPPER LIMIT OF 104 DEGREES FAHRENHEIT AND ABOVE.
- ALL NEW SPAS SHALL BE EQUIPPED WITH AUTOMATIC CONTROLS TO PROVIDE ADEQUATE FEED RATES OF HALOGEN AND PH ADJUSTMENT CHEMICALS IN ORDER TO KEEP THE DISINFECTANT AND PH RATES AT THE REQUIRED LEVELS ON A CONTINUOUS BASIS. A WARNING LIGHT ON INDICATOR SHALL BE PROVIDED IN A VISIBLE LOCATION FOR SUPERVISORY CONTROL. THE DEVICE SHALL INDICATE ABSENCE OF CHEMICALS IN FEEDERS, IMPROPER ADJUSTMENTS OF CHEMICAL DOSAGES, OR ANY OTHER MECHANICAL OR OPERATIONAL MALFUNCTION.
- ALL SPAS MUST HAVE A SINGLE TIMER SET FOR A MAXIMUM OF 15 MINUTES WHICH MUST TURN ON AND OFF THE HYDRO THERAPY PUMP AND BLOWER IF PROVIDED. THIS TIMER SWITCH MUST BE INACCESSIBLE TO PERSONS WHILE IN SPA.
- ALL SPAS MUST HAVE AN EMERGENCY CUT-OFF SWITCH PROVIDED IN THE SPA AREA WHICH, WHEN TRIGGERED, WILL SIMULTANEOUSLY SHUT OFF THE SPA BOOSTER AND RECIRCULATION PUMPS. THIS SWITCH MUST BE CLEARLY VISIBLE, LABELED, EASILY ACCESSIBLE AT ALL TIMES, AND NO GREATER THAN TWENTY FIVE (25) FOOT DISTANCE FROM THE ENTRANCE STEPS OF THE SPA.
- A CAUTION SIGN SHALL BE MOUNTED ADJACENT TO THE ENTRANCE TO THE SPA AND SHALL CONTAIN THE FOLLOWING WARNING IN 2" LETTERS  
CAUTION:  
PREGNANT WOMEN; ELDERLY PERSON, AND PERSONS SUFFERING FROM HEART DISEASE, DIABETES, OR HIGH OR LOW BLOOD PRESSURE SHOULD NOT ENTER THE SPA WITHOUT PRIOR MEDICAL CONSULTATION AND PERMISSION FROM THEIR DOCTOR.

DO NOT USE THE SPA WHILE UNDER THE INFLUENCE OF ALCOHOL, TRANQUILIZERS, OR OTHER DRUGS THAT CAUSE DROWSINESS OR THAT RAISE OR LOWER BLOOD PRESSURE.

- DO NOT USE ALONE
- UNSUPERVISED USE BY CHILDREN IS PROHIBITED
- ENTER AND EXIT SLOWLY
- OBSERVE REASONABLE TIME LIMITS (THIS IS 10- 15 MINUTES), THEN LEAVE THE WATER AND COOL DOWN BEFORE RETURNING FOR ANOTHER BRIEF STAY
- LONG EXPOSURE MAY RESULT IN NAUSEA, DIZZINESS, OR FAINTING
- KEEP ALL BREAKABLE OBJECTS OUT OF THE AREA.

- AN ADDITIONAL SIGN SHALL BE POSTED REQUIRING A SHOWER FOR EACH USER PRIOR TO ENTERING THE SPA AND PROHIBITING OILS, BODY LOTION, AND MINERALS IN THE WATER.

**POOL SPECIFICATIONS**

ALL CONSTRUCTION TO CONFORM TO CURRENT NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES, DIVISION OF ENVIRONMENTAL HEALTH, ENVIRONMENTAL HEALTH SERVICES SECTION 15A NCAC 18 A .2500 RULES GOVERNING PUBLIC SWIMMING POOLS

WATER SUPPLY SHALL BE FROM THE LOCAL MUNICIPAL WATER SYSTEM. FILL VALVE SHALL BE IN THE POOL EQUIPMENT ROOM AND A FILL SPOUT SHALL BE LOCATED ADJACENT TO A LADDER.

SANITARY SEWAGE FROM THE FACILITY SHALL BE DISCHARGED INTO LOCAL MUNICIPAL SEWER SYSTEM.

FRESH WATER SUPPLY FOR THE FACILITY SHALL BE FROM THE LOCAL MUNICIPAL SYSTEM.

POOL BACKWASH WATER SHALL GO TO SANITARY SEWER WITH A 6" AIR GAP, AT SUMP. POOL OVERFLOW, WHEN APPLICABLE, SHALL GO TO ON-SITE STORM WATER COLLECTION.

**POOL CONSTRUCTION:**

POOL SHELL WILL BE CONSTRUCTED OF A MINIMUM OF 6" OF GUNITE WITH # 3 REBAR AT 12" ON CENTER BOTH WAYS. BOND BEAM SHALL BE 12" X 12" GUNITE WITH FOUR EACH #3 REBAR CONTINUOUS IN BEAM. ALL CORNERS AND JUNCTIONS OF POOL WALL AND FLOOR MUST HAVE A MINIMUM RADIUS OF (6) SIX INCHES. SEE DETAIL SHEET.

FINAL POOL FINISH SHALL BE A SMG Diamond Britz, Color Blue, White Base with Blue Quartz, MINIMUM OF 3/8" THICKNESS TROWELED SMOOTH, SLIP RESISTANT.

WATERLINE TILE AS SPECIFIED BY P DAVIS ARCHITECT, DETAIL 5, SHEET LA3.1. TILE SHALL BE SPACED AT THE NORMAL WATERLINE (MIDDLE OF SKIMMER THROAT).

DEPTH MARKERS AS SPECIFIED BY J. DAVIS ARCHITECT, SEE DETAIL 6, SHEET LA3.1 AND SPACED AS SHOWN ON SP-2. SPACING TO BE NO MORE THAN TWENTY-FIVE (25) FOOT INTERVALS AND AT NOT MORE THAN TWO (2) INTERMEDIATE INCREMENTS OF DEPTH. DEPTH MARKERS SHALL BE IN WATERLINE TILE IN A CONTRASTING COLOR AND SHALL INCLUDE THE ABBREVIATION "FT". DEPTH MARKERS SHALL INCLUDE A TOTAL OF 12 INCHES OF TILE. DEPTH MARKERS SHALL BE SIX (6) INCH TILE WITH FOUR (4) INCH LETTERING. CORRESPONDING NON-SKID DEPTH MARKER TO BE LOCATED WITHIN 15' OF WATERS EDGE AND INCLUDE "NO DIVING" TILE.

**EQUIPMENT ROOM:**

EQUIPMENT ROOM SHALL BE CONSTRUCTED PER THESE PLANS AND DETAILS, HAVE A EIGHT (8) FOOT CEILING HEIGHT, AND STANDARD SIZE ENTRY DOOR. THE ROOM SHALL HAVE A MINIMUM OF ONE (1) WATT OF ARTIFICIAL LIGHT PER SQ. FT. OF FLOOR SPACE, AND BE PROVIDED WITH TEN (10) AIR CHANGES PER HOUR OR VENTILATION DIRECTED AWAY FROM THE POOL. FLOOR SHALL BE CONCRETE PIPING MUST BE ADEQUATELY SUPPORTED TO PROTECT FROM SETTLING OR BREAKAGE. EQUIPMENT ROOM EXHAUST FAN MUST BE WIRED TO OPERATE CONTINUOUSLY. DO NOT WIRE FAN WITH LIGHT SWITCH.

**CHEMICAL STORAGE ROOM:**

SEPARATE CHEMICAL STORAGE ROOM SHALL BE CONSTRUCTED PER THESE PLANS AND DETAILS, AND HAVE TEN (10) COMPLETE AIR CHANGES PER HOUR. VENTILATION TO THE OUTSIDE. AWAY FROM THE POOL. AND HAVE A MINIMUM OF ONE (1) WATT OF LIGHT PER SQ. FT. OF FLOOR SPACE. ROOM SHALL BE KEPT DRY AND NO OTHER ITEMS SHALL BE STORED IN THE ROOM. CHEMICAL STORAGE ROOM EXHAUST FAN MUST BE WIRED TO OPERATE CONTINUOUSLY. DO NOT WIRE FAN TO LIGHT SWITCH.

**MINIMUM TOILET FACILITIES:**

TOILET FACILITIES SHALL BE PROVIDED AS SHOWN, PER SECTION .2526, SEE PLAN.  
TOILET FACILITIES TO INCLUDE SLIP RESISTANT FLOORING, SLOPED TO FLOOR DRAIN (S). HOT AND COLD WATER, WITH MAXIMUM HOT WATER OF 110 DEGREES. SOAP DISPENSERS WITH LIQUID OR POWDERED SOAP SHALL BE PLASTIC OR METAL. NO GLASS IS ALLOWED IN TOILET FACILITIES. MIRRORS, IF PROVIDED, SHALL BE OF SHATTERPROOF MATERIALS, CONTAINING NO GLASS. TOILET PAPER HOLDERS SHALL BE PROVIDED AT EACH WATER CLOSET. PARTITIONS SHALL BE OF A DURABLE MATERIAL, NOT SUBJECT TO DAMAGE BY WATER AND SHALL BE DESIGNED TO ALLOW WATER TO FLOW THROUGH THE PARTITION AT FLOOR LEVEL. A HOSE BIBB SHALL BE PROVIDED IN EACH TOILET.

**PIPING GENERAL:**

ALL PIPING SHALL BE PVC SCHEDULE 40 AND NSF APPROVED AND ADEQUATELY SUPPORTED.  
ALL GRAVITY WASTE LINES SHALL HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.  
ALL PIPING AND EQUIPMENT SHALL BE PROVIDED AS MUCH AS POSSIBLE WITH A POSITIVE MEANS OF DRAINING WATER TO PREVENT FREEZE DAMAGE.  
ALL PIPING TO BE MARKED WITH DIRECTIONAL ARROWS.  
ALL VALVES TO BE PERMANENTLY TAGGED AND VALVE SCHEDULE POSTED IN EQUIPMENT ROOM.

**FILL SPOUT (WHEN APPLICABLE):**

TO BE LOCATED ADJACENT TO A LADDER, WITHIN 6 INCHES, SO NOT TO BE A TRIP HAZARD.  
SHALL EXTEND TO EDGE OF THE COPING, BUT NOT MORE THAN 2" PAST THE COPING.  
OUTLET MUST BE AT LEAST TWO (2) FILL SPOUT DIAMETERS ABOVE THE RIM OF THE POOL.

**FILTRATION SYSTEM:**

ALL EQUIPMENT SHALL BE NSF APPROVED.  
PUMP AND MOTOR SHALL BE SINGLE SPEED, SELF-PRIMING, SIZED FOR FLOW AT 65 FT. TOTAL DYNAMIC HEAD, AND INCLUDE A CORROSION FREE STRAINER BASKET. EACH PUMP SHALL BE ACTIVATED BY AN OFFION DISCONNECT SWITCH WITHIN 5 FT. OF THE PUMP. FURNISH SPARE STRAINER BASKET WITH EACH PUMP. STRAINER BASKETS SHALL HAVE OPENINGS LESS THAN 1/4".  
FILTRATION SHALL BE A SAND FILTER, NSF APPROVED. SIZED USING LATEST NSF RATINGS FOR EACH FILTER. FILTER TO INCLUDE A PRESSURE GAUGE AND AIR RELIEF VALVE.  
AN APPROVED RATE OF FLOW INDICATOR SHALL BE PROPERLY INSTALLED IN THE FILTER EFFLUENT PIPING.  
CHLORINATION SHALL BE BY AN APPROVED CHLORINATOR PROPERLY SIZED AND NSF APPROVED.  
PIPING SHALL BE SIZED FOR LESS THAN THE FOLLOWING VELOCITIES: SUCTION PIPING: 6FT/SEC. PRESSURE PIPING: 10FT/SEC. PIPING SHALL BE PRESSURE TESTED AT 30 PSI FOR 2 HOURS PRIOR TO BACKFILL. ALL EQUIPMENT ROOM PIPING AND VALVES SHALL BE PERMANENTLY TAGGED, INCLUDING DIRECTIONAL ARROWS.  
PIPING MUST BE ADEQUATELY SUPPORTED TO PROTECT FROM SETTLING OR BREAKAGE.

**POOL INLETS AND OUTLETS:**

FILTRATION/RECIRCULATION SYSTEM TURNOVER RATE SHALL BE SIZED AS FOLLOWS AND SHALL BE OPERATED 24 HOURS PER DAY.  
POOL - SIX (6) HOUR (WHEN APPLICABLE) WADING POOL - TWO (2) HOUR, SPA - THIRTY (30) MINUTES

**SURFACE SKIMMERS:**

SHALL BE PROVIDED WITH FLOAT VALVES, EQUALIZERS, AND WEIRS SHALL BE PROVIDED. EQUALIZER LINE TO HAVE VIRGINIA GRAEME BAKER COMPLIANT COVER  
SKIMMERS SHALL BE POSITIONED FIVE (5) TO SEVEN (7) INCHES BELOW POOL COPING SUCH THAT THE NORMAL OPERATING LEVEL OF THE POOL IS AT THE MIDDLE OF THE SKIMMER THROAT. THROAT OPENING MUST BE A MINIMUM SIZE OF EIGHTEEN (18) INCHES.  
PIPING SIZED TO HANDLE 100 PERCENT OF THE DESIGN FLOW RATE.  
ONE (1) SPARE SKIMMER BASKET WILL BE PROVIDED  
WADING POOL SKIMMER (WHEN APPLICABLE): THE MIDDLE OF THE SKIMMER MUST BE POSITIONED THREE (3) TO SEVEN (7) INCHES BELOW THE POOL COPING.  
SEE DETAIL SHEET.

**RETURN INLETS:**

ADJUSTABLE RETURN FITTINGS SHALL BE INSTALLED PER THE POOL PIPING PLAN. SEE DETAIL SHEET.

**MAIN DRAINS:**

TWO (2) VIRGINIA GRAEME BAKER ACT COMPLIANT MAIN DRAINS SHALL BE INSTALLED IN THE DEEPEST SECTION OF THE POOL, CONNECTED BY "T" PIPING, SIZED AND CONFIGURED SUCH THAT EACH DRAIN WILL HANDLE 100 PERCENT OF THE PUMP SYSTEM FLOW. DRAINS SHALL BE SPACED NOT MORE THAN 30 FEET APART, AND NOT MORE THAN 15 FEET AWAY FROM THE SIDE WALLS.  
THERE SHALL BE AT LEAST 3 FEET OF CLEAR SEPARATION BETWEEN DRAIN GRATES OR COVERS.  
EACH MAIN DRAIN SHALL INCLUDE HYDROSTATIC RELIEF VALVE.  
SEE DETAIL SHEET.

**VACUUM OUTLETS:**

NO VACUUM OUTLETS LESS THAN SIX (6) INCHES OR MORE THAN EIGHTEEN (18) INCHES BELOW THE NORMAL OPERATING LEVEL OF THE POOL.  
VACUUM PORT TO BE PROVIDED WITH SELF-CLOSING CAP DESIGNED TO BE OPENED WITH A TOOL. SEE DETAIL SHEET.

**OVERFLOW:**

WHEN APPLICABLE, SHALL BE PROVIDED TO APPROVED LOCATION WITH SIX (6) INCH AIR GAP.  
SEE POOL PIPING PLAN.

TWO (2) COPIES OF OPERATIONS AND MAINTENANCE INSTRUCTIONS INCLUDING VALVE SCHEDULE SHALL BE GIVEN TO OWNER WITH ORAL INSTRUCTIONS ON OPERATION OF THE POOL. ONE (1) COPY OF OPERATIONS INSTRUCTIONS AND VALVE SCHEDULE SHALL BE ENCASED IN A WATERPROOF COVERING AND PERMANENTLY POSTED ON EQUIPMENT ROOM WALL.

POOL BUILDER SHALL OPERATE ENTIRE POOL FACILITY AFTER COMPLETION, FOR A MINIMUM OF THREE (3) DAYS PRIOR TO TURNOVER TO OWNER.  
LADDERS: NSF APPROVED, THREE (3) STEP LADDERS SHALL BE PROVIDED WHERE SHOWN ON PLANS. LADDERS SHALL BE REMOVABLE. LADDERS SHALL HAVE: NOT MORE THAN FIVE (5) AND NO LESS THAN THREE (3) INCHES CLEARANCE FROM THE VERTICAL POOL WALL.

STEPS: STEPS SHALL HAVE A MINIMUM OF TEN (10) INCH TREAD WIDTH, A MAXIMUM UNIFORM RISER HEIGHT OF TWELVE (12) INCHES, WITH THE BOTTOM RISER HEIGHT ALLOWED TO VARY PLUS OR MINUS TWO (2) INCHES FROM UNIFORM RISER HEIGHT. EACH STEP TO BE MARKED WITH TWO (2) INCH WIDE CONTRASTING TILE SPACED NO MORE THAN 1 INCH FROM EDGE. STEPS SHALL HAVE REMOVABLE HANDRAIL (S).