

GENERAL DESIGN REQUIREMENTS

DESIGN DIMENSIONS SHALL COMPLY WITH SPECIFICATIONS IN ANSINSP1 5 RESIDENTIAL IN-GROUND SWIMMING POOLS BASED ON THE POOL TYPE AND NSPI 3 PERMANENTLY INSTALLED RESIDENTIAL SPAS.
SEE ANSINSP1 5 FOR DIVING WATER ENVELOPES
SLIDES SHALL MEET THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
ENTRY/EXIT: SHALL COMPLY WITH ANSINSP1 5 AND NSPI 3 LADDERS, UNDERWATER SEATS, AND SWIM OUTS (MAX 20" BELOW WATER).
CIRCULATION SYSTEMS, COMPONENTS AND EQUIPMENT SHALL COMPLY WITH NSF 50.
THE MAXIMUM TURNOVER RATE IS 12 HOURS.
FILTERS SHALL HAVE AN AIR RELIEF AND PRESSURE GAUGE.
PUMPS 3 HP AND LESS SHALL MEET ANSI/UL 1081. CORROSION RESISTANT WITH STRAINER AND MEET THE REQUIRED FLOW. SURFACE SKIMMERS SHALL MEET NSF 50 AND THERE SHALL BE ONE FOR EVERY 800 SQUARE FEET OF SURFACE AREA.
RETURN INLETS SHALL BE A MINIMUM OF ONE FOR EVERY 600 SQUARE FEET.
HEATERS SHALL MEET ANSI-Z21.56 OR UI1261 OR UI559
DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF 50.
PRESSURE TEST PIPING AT 35 PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.

SPECIAL SPA REQUIREMENTS

MAXIMUM WATER DEPTH 4'. MAXIMUM SEAT DEPTH 28". MAX FLOOR SLOPE 1:12.
STEPS: MIN TREAD 10"x12", 7" MIN. RISER. 12" MAX. RISER EXCEPT THE BOTTOM STEP MAY BE 14" IF IT IS THE SEAT.
INTERMEDIATE TREADS AND RISERS TO BE UNIFORM.
IF THE SPA IS OPERATED INTERMITTENTLY IT SHALL HAVE A ONE HOUR TURNOVER. IF CONTINUOUS A SIX HOUR TURNOVER.
MAXIMUM TEMPERATURE 104 DEGREES.
MEET ANSINSP1 ARTICLE XVII SAFETY INSTRUCTION/SAFETY SIGNS.
PRESSURE TEST PIPING AT 35PSI FOR 15 MINUTES OR MEET LOCAL CODE IF GREATER.

ELECTRICAL REQUIREMENTS

WIRING AND BONDING AND ALL ELECTRICAL TO NEC ART. 680 OR LOCAL CODE. NO OUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI TRANSFORMER MIN. 10' FROM POOL. 8" ABOVE WATER. J BOX 4" FROM POOL. BRASS TO J BOX OR TRANSFORMER WHICH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

EQUIPOTENTIAL BONDING GRID TO BE ACCOMPLISHED PER THE NEC 2005, SECTION 650.26(C)(3)b

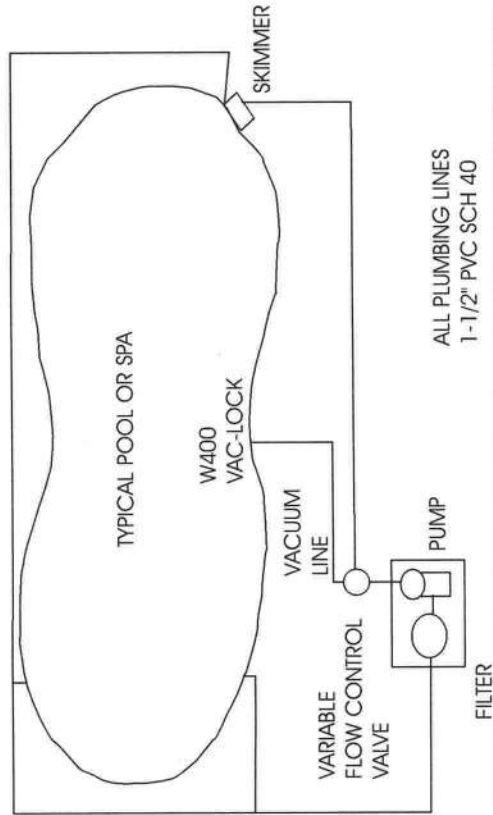
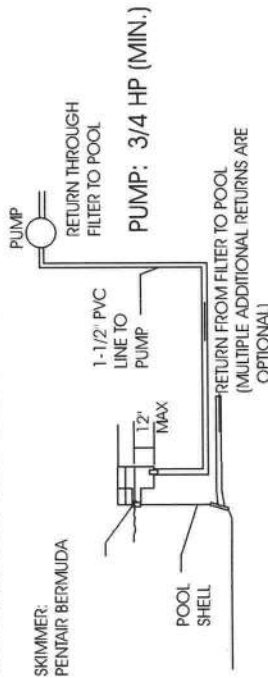
CONSTRUCTION NOTES:

SLAB & FOOTING: 2500 PSI CONCRETE
STEEL REBAR: GRADE 40

PIPING SIZING CHART (MAXIMUM)

PIPE	SUCTION	PRESSURE
1 1/2"	35 GPM	60 GPM
2"	60 GPM	100 GPM

SUCTION PIPEWORK DIAGRAM FOR SKIMMER MAIN RETURN SYSTEM

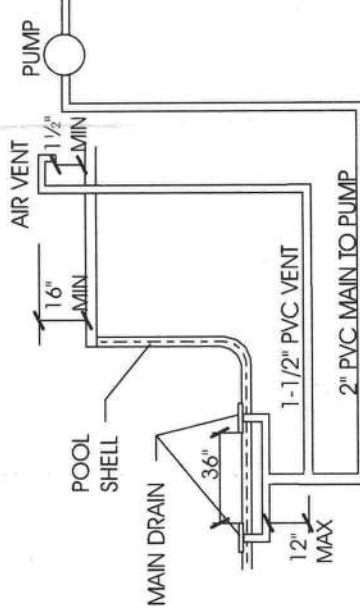


ADDITIONAL NOTES:

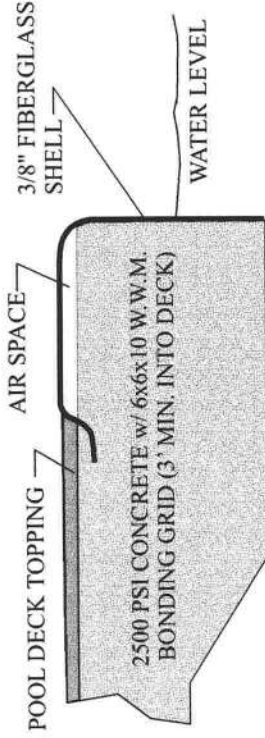
- POOL INSTALLATION SHALL BE BY A QUALIFIED AND LICENSED (APPROVED BY LOCAL BUILDING DEPARTMENT) POOL CONTRACTOR. THE INSTALLATION SHALL CONFORM TO ALL LOCAL BUILDING CODES, IE. PERMITS, SPECIFICATIONS, CODES, RULES, INSPECTIONS, WORKMANSHIP, ETC.
- TYPICAL PROPERTIES OF A REINFORCED FIBERGLASS POOL:
BARCOL HARDNESS OF 30 MIL GEL COAT 30-40
GLASS CONTENT BY WEIGHT 37%
TENSILE STRENGTH, PSI AT 77°F 13,400
TENSILE ELONGATION 1-2%
FLEXURAL STRENGTH, PSI AT 77°F 900,000 - 1,000,000
FLEXURAL MODULUS, PSI X 10 AT 77°F 0.72 - 0.77
1200 IMPACT FT-LBS/ INCH OF NOTCH 5.9
COMPRESSIVE STRENGTH, PSI 25000 - 38000
TYPICAL THICKNESS, INCHES 1/4" TO 3/8" AVG.
- POOL SHELL SHALL BEAR ON UNDISTURBED SOIL FREE OF PEAT, MUCK, OR OTHER DELETERIOUS MATERIAL OF ANY SIGNIFICANT AMOUNT.
- BACKFILL MATERIAL MUST NOT CONTAIN ROCKS OR OTHER MATERIALS THAT COULD DAMAGE POOL WALLS.
- POOL TURNOVER SHALL BE 12 HOURS, MAXIMUM WITH CARTRIDGE FILTER. APPROVED PUMP (MIN 1/4 H.P. W/ 29 GPM 60 TDH).
- STEPS SHALL BE PROVIDED AT THE SHALLOW END OF THE POOL. CONVENIENCE GRAB BAR SHALL BE PROVIDED PER INSTALLATION PLAN
- LADDERS ARE TO BE PROVIDED IN POOLS WITH GREATER THAN 5' DEPTH WITHOUT SWIM OUTS.
- INSTALL LOW VOLTAGE LIGHT AS PER N.E.C. 680.
- DIVING PLATFORMS OR DIVING BOARDS ARE NOT TO BE INSTALLED ON POOLS.
- DURING A HURRICANE WARNING OR ALERT, THIS POOL SHALL BE FILLED WITH WATER.
- THESE POOL PLANS MEET OR EXCEED THE ANSINSP1 5 2002 RESIDENTIAL IN-GROUND SWIMMING POOL AND ANSINSP1 3 1992 PERMANENTLY INSTALLED RESIDENTIAL SPA STANDARDS.
- ALL GLASS WITHING 5' OF WATERS EDGE SHALL COMPLY WITH R308.4(9) FOR SAFETY GLAZING.

MAIN DRAINS ARE NOT REQUIRED. POOL MAY BE DRAINED USING VACUUM LINE WITH SKIMMER.

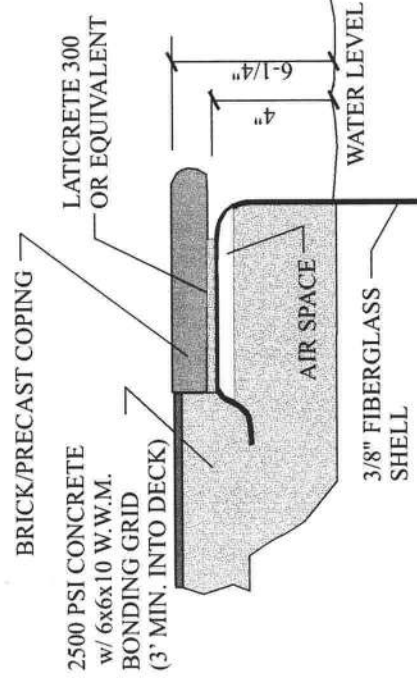
MAIN DRAINS WITH AIR VENT



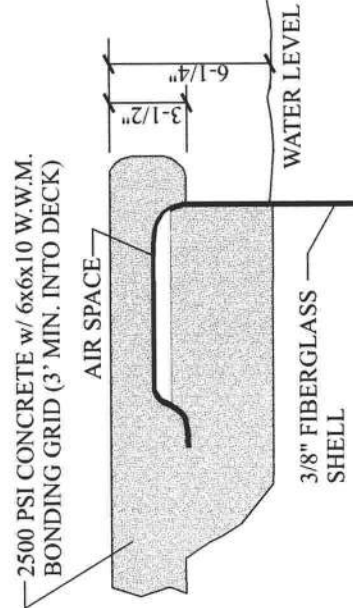
- NOTES:
- MAIN SUCTION LINE IS TO BE 2"
 - VENT LINE IS TO BE 1-1/2"
 - VENT LINE IS TO HAVE SCREENED CAP TO PREVENT CLOGGING WITH DEBRIS OR BUGS.
 - LABEL VENT: HANDS OFF. POOL SAFETY DEVICE.
 - MAXIMUM UNDERWATER LENGTH OF VENT PIPE IS 30 FEET. 90 DEGREE BENDS SHOULD BE COUNTED AS 3 FT OF PIPE. 45 DEGREE BENDS AS 2 FT.
 - MINIMUM PUMP FLOW REQUIRED IS 42 gpm; TEST FLOW RATE OF 60 gpm CLEARED VENT LINE IN LESS THAN 3 SEC.



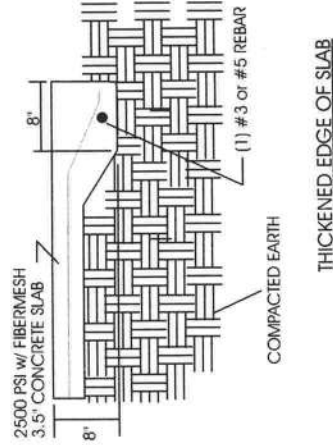
PERIMETER DECK AT POOLSIDE



OPTIONAL BRICK/PRECAST AT POOLSIDE



OPTIONAL CANTILEVER DECK AT POOLSIDE



OWNER:

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