GENERAL DESIGN REQUIREMENTS

DESIGN DIMENSIONING SHALL ALL COMPLY WITH SPECIFICATIONS IN NSPI 5

AND NSPI 3: BASED ON THAT POOL TYPE. SEE NSPI FOR DIVING WATER ENVELOPES, SLIDES SHALL MEET THE MANUFACTURE'S INSTALLATION REQUIREMENTS. ENTRY/EXIT: REQUIRED AT THE STAIRS (10" MIN. TREAD END IF OVER 5 FEET DEEP. ACCEPTABLE ARE STAIRS (10" MIN. TREAD WITH 240 SQUARE INCH MIN. AREA, 12" MAX. RISER WITH INTERMEDIATE TREADS AND RISERS UNIFORM). LADDERS, UNDERWATER SEATS, AND SWIM OUTS (MAX. 20" BELOW WATER). CIRCULATION SYSTEMS, COMPONENTS AND EQUIPMENT SHALL COMPLY WITH NSF 50. FILTERS: THE MAXIMUM OUTS (MAX. 20" BELOW WATER). CIRCULATION SYSTEMS, COMPONENTS. FILTERS SHALL HAVE AN AIR RELEASE AND PRESSURE GAGE. PUMPS 3 HP AND LESS SHALL MEET ANSI/UL1081, CORROSION RESISTANT WITH STRAINER AND MEET THE REQUIRED FLOW. SURFACE SKIMMERS SHALL MEET ANSI/UL1081, CORROSION RESISTANT WITH STRAINER AND MILETS SHALL BE ONE FOR EVERY 800 SQUARE FEET OF SURFACE AREA. RETURN INLETS SHALL BE A MINIMUM OF ONE FOR EVERY 600 SQUARE FEET. THE CONSTRUCTION AND REINFORCEMENT SHOWN HERE ON MAY BE USED FOR ALL POOL SHAPES INCLUDING THOSE WITH CONCAVE AND CONVEX WALLS UP TO 8' DEEP AND SPAS UP TO 4' DEEP, HEATERS SHALL MEET ANSI-21.56 OR UL 1261 OR UL559 DISINFECTANT EQUIPMENT SHALL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH STANDARD COMPLY WITH NSF 50. PRESSURE TEST PIPING AT 15 PSI FOR 30 FINANCIAL COMPLY WITH STANDARD COMPLY WITH STANDARD COMPLY WITH STANDARD COMPLY WI

SPECIAL SPA REQUIREMENTS:

MAXIMUM WATER DEPTH 4', MAXIMUM SEAT DEPTH 28", MAX. FLOOR SLOPE 1:12.

STEPS: MIN. TREAD 10" X 12", 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 TURN A ONE
HOUR TURNOVER. IF CONTINUOUS, A SIX HOUR TURN OVER. MAXIMUM TEMPERATURE
104 DEGREES. MEET ANSI/NSPI ARTICLE XVII, SAFETY INSTRUCTION/SAFETY SIGNS.
PRESSURE TEST PIPING AT 25 PSI FOR 30 MINUTES OR MEET LOCAL CODE IF GREATER.

FLOW THRU SPA

TYPICAL GR. FOR #3, ø
W/ #8 CU TO PUMP

υń

,TU

SKIMMER

NO LIMITS
TO SHAPE
SEE NOTES
FOR DEPTHS

SKIMMER

VENT

SAME AS POOL

NO LIMITS

FOR DIVING

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

GENERAL SPECIFICATION NOTE SEE ATTACHED SPECIFICATIONS FOR REQUIRED FITTINGS SCH.40 P.V.C. CAP W/GRATE SUCTION 35 GPM 60 85 135 135 100 145 225 375

VENT

SIZING CHART (MAXIMUM) SEE/ NOTES 184 OPTIONAL 120V LIGHT OR 12V LIGHT W/ TRANS. 3/4" BRASS OR PVC, SEE NOTES (ALT: FIBER OPTICS) Q-DOUBLE DRAINS @
3' MIN. DISTANCE APART
REQUIRED TAMPER PROOF

EN

SEE NOTES

EACH APPLICATION FOR PERMIT SHALL SHOW A PLUMBING PLAN IN ADDITION TO ALL OTHER REQUIREMENTS PLUMBING SHALL BE BASED ON A TOTAL DYNAMIC HEAD OF 60'

SAMPLE ONLY

POOL VOLUME 15,000 GALS.
PUMP: STARITE P4EA5D, 3/4 HP
PUMP: GEOT TURN OVER: 4050= 2400 15,000/2400= 6.2 FILTER: STARITE PTM 50, CAPACITY 6.25 HOURS 50, 50 GPM MAIN DRAIN HAYWARD SP1035AVS CLEANER HAYWARD VAC LOC VENT SCREEN HAYWARD SP1026 M-UN-20 GPM 20 GPM

BOTTOM & SIDE WALL MOUNTED

WATER OPERATING LEVEL

2'-9' MIN, EXCEPT FOR SLOPING ENTRIES 4'-0' MAX.

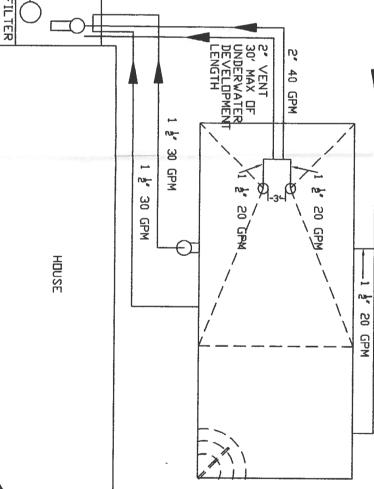
ALTERNATE MAIN DRAIN DETAIL

PIPE

DRAIN

VENT TO PUMP

TYPICAL VENT DETAIL



## FLORIDA BUILDING CODE 424-2

SWIMOUT OR LADDER

(GR/#8 CU)

RAIL OPTIONAL GR/#8 CU

SPA PLAN

PROP

DOUBLE DRAINS REQUIRED TAMPER

POOL

PLAN

THE POOL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DETAIL DESIGN REQUIREMENTS FOR EACH INDIVIDUAL POOL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AND ALL CONSTRUCTION SHALL MEET ALL APPLICABLE CODES INCLUDING PLUMBING, ELECTRICAL AND GAS.
PIPING SHALL BE SCH. 40 PVC, NSFPW, MAX. PRESSURE VELOCITY 10 FPS, SUCTION 6 FPS. THE POOL PLAN SHALL SHOW THE DESIGN PLUMBING AS PER THE SAMPLE WITH THE INFORMATION REQUIRED SHOWN. MAIN DRAIN PLUMBING SHALL BE TWO DRAINS SEPARATED BY 3' WITH APPROVED ANSI/ASME A112, 19.8M COVERS, AS AN ALTERNATE THE APPROVED DRAINS SHALL HAVE A COMMON SUCTION LINE. SUCTION GRATES MAY BE PLACED ON DIFFERENT PLANES. THE TWO DRAINS SHALL HAVE A COMMON SUCTION LINE. SUCTION GRATES MAY BE USED IF APPROVED AT A MAXIMUM OF 1 ½ FPS AND THE SUCTION PIPING IS RECESSED FROM THE GRATE THE DISTANCE EQUAL TO THE SUCTION PIPE SIZE. IN ADDITION A SAFETY VACUUM RELEASE SYSTEM MUST BE INSTALLED. THIS MAY CONSIST OF AN AIR RELEASE SYSTEM. THE VENT PIPE SHALL BE TIED TO THE MAIN DRAIN UNE AND BROUGHT BACK TO THE FILTER LOCATION, ELBOWED UP AND OVER WITH A GRATE FOR PROTECTION AND LABELED "SAFETY VENT". AS AN ALTERNATE THE SAFETY VACUUM RELEASE SYSTEM (SVRS) MAY BE AN APPROVED VALVE MEETING JAPMU IGC 160-2001G.

CLEANER SUCTION FITTINGS SHALL BE PROTECTED BY A PERMANENTLY SELF-CLOSING FLAPPER VALVE MEETING ANSI/ASME A112.19.8M.

SKIMMERS DO NOT REQUIRE PROTECTION AND MAY BE DESIGNED FOR 30 GPM SUCTION.

THE FOLLOWING SHALL BE LABELED AT THE FILTER LOCATION: PIPE, VALVES, "SAFETY VENT" OR "SAFETY DEVICE", PUMP(S) OFF SWITCH.

I HEREBY CERTIFY THAT I HAVE DESIGNED THIS AND IT IS IN COMPLIANCE WITH THE 2004 FLORIDA BUILDING CODE RESIDENTIAL & SECTION R4101.6 FOR CONSTRUCTION & R4101.6.6 FOR ENTRAPMENT PROTECTION, ANSI/NSPI 3-99, FOR INGROUND SPAS AND 5-03 FOR INGROUND SWIMMING

THIS MASTER POOL SPEC DRAWING WILL BE VALID
FOR ONE (1) YEAR AND REQUIRE RE-CERTIFICATION
FOR EACH CONTINUING YEAR TO ENSURE THAT CODE
REQUIREMENTS ARE KEPT

ENGINEER'S CERTIFICATION

MILES CHRISTIAN ANDERSON CONSULTING ENGINEERS, INC. ŝ (352) 629-5591 (352) 629-4402 MILES C.

ANDERSON PROFESSIONAL ENGINEER NO. 200

STANDARD RESIDENTIAL CHECK: MCA ST\_POOL\_DES POOL FILE: SPA DESIGN #: BO₽ 12-09-05 REVISED:

4' DECK W/ 6X6#10 MESH GR. W/ #8 CU WIRE TO PUMP, ALT: PAVERS/MFG, OR FIBER MESH

BEAM AND #7 / REBAR OPTIONAL

DECK.

BEAM.

WALL, & FLOOR SECTION

11-28-05 DATE:

DRAWN:

POOL/SPA

FINISH 3/8' MARCITH OR EXPOSED AGGREGATE

5' MIN. WALL & FLOOR, 3500 PSI CONC. #3 REBAR 12" D.C.E.W. TIE ALT. INTERSECTIONS 15" MIN. OVERLAP, 2" MIN. COVER STEEL TO ASTM A15, A16, ASTM A305

8'x8' SLAB BEAM W/ 2 #3 REBAR OPTIONAL

P001

SECTION

MIN. TO SLOPE CHANGE

MAX

MAX

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MAX.

4'-0" FOR

8'-0" MAX FOR SWIMMING POOL

SPA'S

1 ½" 40 GPM

FIESTA POOL

2300 S.E. 17th STREET, SUITE OCALA, FLORIDA 34471

rice

KNOO