

EQUIPOTENTITIAL BONDING GRID:

ALL METAL PARTS SPE, PECIFIED IN 680.26(B) MUST BE BONDED TO AN EQUIPOTENTIAL AL BONDING GRID WITH A SOUD COPPER CONDUCTOR NOT 5M, MALL THAN 8 AWG. THE TERMINATION OF THE BONDING CONDUCTOR MUST BE MADE BY EXOTHERMIC WELDING, LISTED FRESURE CONNECTORS, OR LISTED CLAMPS THAT ARE LALABELED AS SUITABLE FOR THE PURPOSE. THE QUIPOTENTIAL BC BONDING GRID MUST EXTEND UNDER PAVED WALKING SURF RACES FOR 3 FEET HORZONTALLY FROM THE WATER (680.26(C).

THE EQUIPOTENTIAL B . BONDING GRID MUST BE FORMED FROM EITHER OR BOTH OF: $\frac{1}{2}$

THE STRUCTURAL AL REINFORCING STEEL OF A CONCERTE PERMANENTLY INSTALLED POOL, OUTDOOR SPA, OR OUTDOOR HOT TUB, TIED TO TOGETHER BY THE USUAL STEEL TIE WIRES.

THE METAL WALLS OF A PERMANENTLY INSTALLED POOL, OUTDOOR SPA, $\tilde{C}_{\rm s}$, or outdoor hot tub

THE EQUIPOTENTIAL B. BONDING GRID CAN BE CONSTRUCTED WITH 8 AWG BARE SOLID C. COPPER CONDUCTORS BONDED TO EA OTHER AT ALL POINTS OF CRURCOSSING BY EXCTHERMIC WELDING, LISTED PRESSURE CONNECTORS OF THE SET SCREW OR COMPRESSION TYPE, LISTED CLAMPS 5, OR OTHER LISTED FITTINGS (250.8).

THE EQUIPOTENTIAL B BONDING GRID MUST COVER THE CONTOUR OF THE PERMANENTLY INS NISTALLED POOL, OUTDOOR SPA OR HOT TUB AND DECK EXTENDING 3 FE FEET HORIZONTALY FROM THE WATER. THE EQUIPOTENTIAL BOND DING GRID MUST BE ARRANGED IN A 1-FOOT BY LEGOT NETWORK OF THE PROPERTY BY 1-FOOT NETWORK K OF 8 AWG CONDUCTORS, WITH A TOLERANCE

EXCEPTION: THE EQUI_NUIPOTENTIAL BONDING GRID SHALL NOT BE REQ'D TO BE INSTALLED UND NOER THE BOTTOM OR VERTICALLY ALONG THE WALLS OF VINYL LINEGIED FOLYMER WALL, FIBERGLASS COMPOSITE, OR OTHER POOLS CONST STRUCTED OF NON-CONDUCTIVE MATERIALS.

ANY METAL PARTS OF JF THE POOL, INCLUDING METAL STRUCTURAL SUPPORTS, SHALL BE BE BONDED IN ACCORDANCE WITH 680.26(B). POURED CONCRETE, F. PNEUMATICALLY-APPLIED CONCRETE, AND CONCRETE BLOCK SHALL BE CON'S NSIDERED CONDUCTIVE MATERIAL

1. ALL WORK IS TO COMPLY WITH ALL APPLICABLE CODES & ORDINANCES. 2. CONSTRUCTED OF 3000 PSI CONCRETE OR EQUAL WITH #3 REBAR 12" O.C. EACH WAY, TIED AT EVERY OTHER INTERSECTION. MIN COVER FOR REBAR IS 2.5" MIN OVERLAP IS 18".

3. POOL SHAPE IS RECTANGLE, ABV SHAPE AND DIMENSIONS ARE APPROXIMATE. 4. ASSUMED SOIL BEARING = 2 KSF 5. CIRCULATION SYSTEMS, COMPONENTS, **♯ EQUIPMENT SHALL COMPLY W/ NSF 50.** 6. INSTALL CONTROL JOINTS @ 20'-0" ON CENTER IN POOL DECKING.

7. PLANS TO CONFORM TO NEC 2005 8. FLORIDA BUILDING CODE 2004 RESIDENTIAL W/ 2006 SUPPLEMENT

9. CONCRETE STAIRS ARE 12" TREAD WIDTH AND 10" MAXIMUM HEIGHT 10. ALL CONSTRUCTION SHALL COMPLY WITH ANSI 5-03, 2005 NEC ARTICLE 680, \$ ANSI-NSPI 3-99 IN-GROUND SPA CONSTR.

* I I . ENGINEERS DESIGN IS FOR STRUCTURAL ONLY. DESIGN OF PIPING/EQUIPMENT ETC. BY POOL CONTRACTOR

FENCE REQUIREMENTS: 1. MINIMUM 48" HEIGHT

2. 2" MAX VERTICAL CLEARANCE BETWEEN GRADE & BARRIER BOTTOM.

3. MAX OPENING SHALL NOT ALLOW PASSAGE OF 4" SPHERE.

4. FENCE POSTS WILL BE LOCATED ON POOL-SIDE OF FENCE.

5. GATE WILL BE SELF-LOCKING WITH APPROVED LOCKING DEVICE.

PAUL D. RIDDLE, P.E.

No. 36989, State of Florida 7-280)

MESH, REFER TO NEC

GROUNDING REQ'MNTS

FOR BONDING \$

WATER LEVEL 8x8 FTG W/ (1) #3 CONT. 6" WALL ₽ FLOOR, 3000-#3 STEEL REBAR 12" O.C. EA WAY~ NOTE: SOIL MUST BE COMPACTED TO 90% IN MAX 12" LIFTS 6x6 #10-10 WIRE TYPICAL

WALL

SECTION

VENT TO ATMOSHPERE SO VENT ANTI ENTRAPIPMENT COVER SUCH WILL NOT BE BLOCKED BY DEBRIS, AS ANTI-HAIRR SNARE PLUS by TRIODYNE SAAFETY SYSTEMS INSECTS, OR MICROBIOLOGICAL CONTAMINATION MODEL NO. 1 TSS-2000 (MUST -(2) 90deg COMPLY WITH ANSWASME ELBOWS A112.19.8MM) 3'-0" MINIMUM FINISHED GRADE 2"T 2"dia SUCTION . VENT COVER MAY BE SUCTION INLET **GUTTER DRAIN SUCH** INLET AS HAYWARD SP-1019 2"dia 2"dia MAXIMUM 5 SUCTION PIPE VELOCITY == 6fps OR 59gpm ATMOSPHERIC VENT PIPE LENGTH - MINIMUM = 16' 2"dia MAXIMUM = 30'TCO PUMP = VENT DETAIL **ALL SUCTION** PIPING = 2"dia NTS

JASON R. RIDDLE Drawing #: 290000



RIDDLE CONSULTING ENGINEERS, Inc.

PAUL D. RIDDLE, P.E. (352) 245-7041 1720 SE CTY F HWY 484 CERTIFICATE of AUTHORIZATION: 00004759 RIDDLE, P.E. 34420

1/4" = unless otherw

POOL DESIGNED FOR: THE SMITH RESIDENCE