

GENERAL DESIGN REQUIREMENTS

DESIGN DIMENSIONS SHALL COMPLY WITH SPECIFICATIONS IN NSPI 5 AND NSPI 3 BASED ON THE -SEE NSPI FOR DIVING WATER ENVELOPES. -SLIDES SHALL MEET THE MANUFACTURE'S INSTALLATION REQUIREMENTS. -ENTRY/EXIT: REQUIRED AT THE SHALLOW END AND DEEP 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 DUTS (MAX. 20" BELDW WATER). -CIRCULATION SYSTEMS, COMPONENTS AND EQUIPMENT SHALL COMPLY WITH NSF 50. -THE MAXIMUM TURNOVER RATE IS 12 HOURS. -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 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.

SPECIAL SPA REQUIREMENTS:

MAXIMUM WATER DEPTH 4", MAXIMUM SEAT DEPTH -FLOOR SLOPE 1:12 -STEPS: MIN. TREAD 10' X 12', 7' MIN. RISER, 12' MAX. RISER EXCEPT THE BUTTOM STEP MAY BE 14' IF IT IS THE SEAT. INTERMEDIATE TREADS AND RISERS TO BE UNIFORM. IF THE SPA IS OPERATED INTERMITENTLY IT SHALL HAVE A ONE HOUR TURNOVER, IF CONTINUOUS A SIX HOUR TURN OVER. -MAXIMUM TEMPERATURE 104 DEGREES. -MEET ANSI/NSPI ARTICLE XVII, SAFETY INSTRUCTIONS/SAFETY SIGNS. -PRESSURE TEST PIPING AT 25 PSI FOR 30 MINUTES OR MEET LOCAL CODE IF GREATER.

## ELECTRICAL REQUIREMENTS:

-WIRING AND BONDING AND ALL ELECTRICAL TO NEC ART, 680 OR LOCAL CODE. -NO DUTLET 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 WITH EVER IS FIRST EXCEPT WHERE PVC IS APPROVED.

## FLORIDA BUILDING CODE 424.2

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 PBC, 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 MAY BE PLACED ON DIFFERENT PLANES THE TWO DRAINS SHALL HAY A COMMON SUCTION LINE. SUCTION GRATES MAY BE USED IF APPROVED AT A MAXIMUM OF 1 1/2 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 LINES, SIZED THE SAME AS THE MAIN DRAIN SUCTION LINE AND BROUGHT BACK TO THE FILTER LOCATION, ELBOWED UP AND OVER WITH A GRATE FOR PROTECTION AND LABELED SKIMMERS DO NOT REQUIRE PROTECTION AND MAY BE DESIGNED FOR 30 GPM SUCTION. THE FOLLOWING SHALL BE LABELED WITH RED LABEL MARKER TAPE AT THE FILTER LOCATION: PIPES, VALVES, "SAFETY VENT" DR "SAFETY DEVICE", PUMP(S) DFF SWITCH.

# ENGINEER'S

- 1. ALL WORK TO BE DONE ACCORDING TO THE 2004 FLORIDA BUILDING CODES. 2- MINIMUM DESIGN SOIL BEARING CAPACITY TO BE 2000 PSF. SOIL CAPACITY TO BE VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. FOOTINGS TO BE EXCAVATED TO CLEAN SOIL, FREE OF VEGETATION AND DELETERIOUS MATTER. CONCRETE SHALL BE PLACED ON AN UNDISTURBED BASE.
- 3. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 4. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERIFIED AND SHALL CONFORM TO THE ARCHITECTURAL DRAWINGS.
- 5. CONCRETE:
  MINIMUM COMPRESSIVE CONCRETE STRENGTH TO BE 3000 PSI IN 28 DAYS. ALL
  CONCRETE SHALL BE "READY MIXED" AND IN ACCORDANCE WITH A.S.T.M.
  SPECIFICATION C-94. ALL CONCRETE MODULAR UNITS SHALL HAVE A
  COMPRESSIVE STRENGHT OF 1900 PSI WITH TYPE M OR S MORTAR, 2000 PSI.
- 6. SLAB ON FILL: INTERIOR CONCRETE SLABS POURED ON FILL TO BE POURED OVER WATERPROOF MEMBRANES. ALL SLABS TO BE REINFORCED WITH 6X6 10/10 WELDED WIRE MESH.
- 7. ALL STEEL SHALL BE 40 KSI WITH A MINIMUM CLEAR COVER OF 3" AGAINST SOIL, AND SHALL HAVE A MINIMUM LAP OF 40 TIMES THE DIAMETER OF THE REBAR. 8. BASIC LOADING FOR FACTORED LOADING:
  - 1.2D+1.6L+0.5Lr 1.2D+1.6Lr+0.5L
  - 1.2D+1.6W+0.5L+0.5Lr 1.2D+0.5L 0.9D + 1.6W
  - 1.2D+1.6W+2.0Fa+0.5L+0.5Lr 0.9D+1.6W+2.0Fa

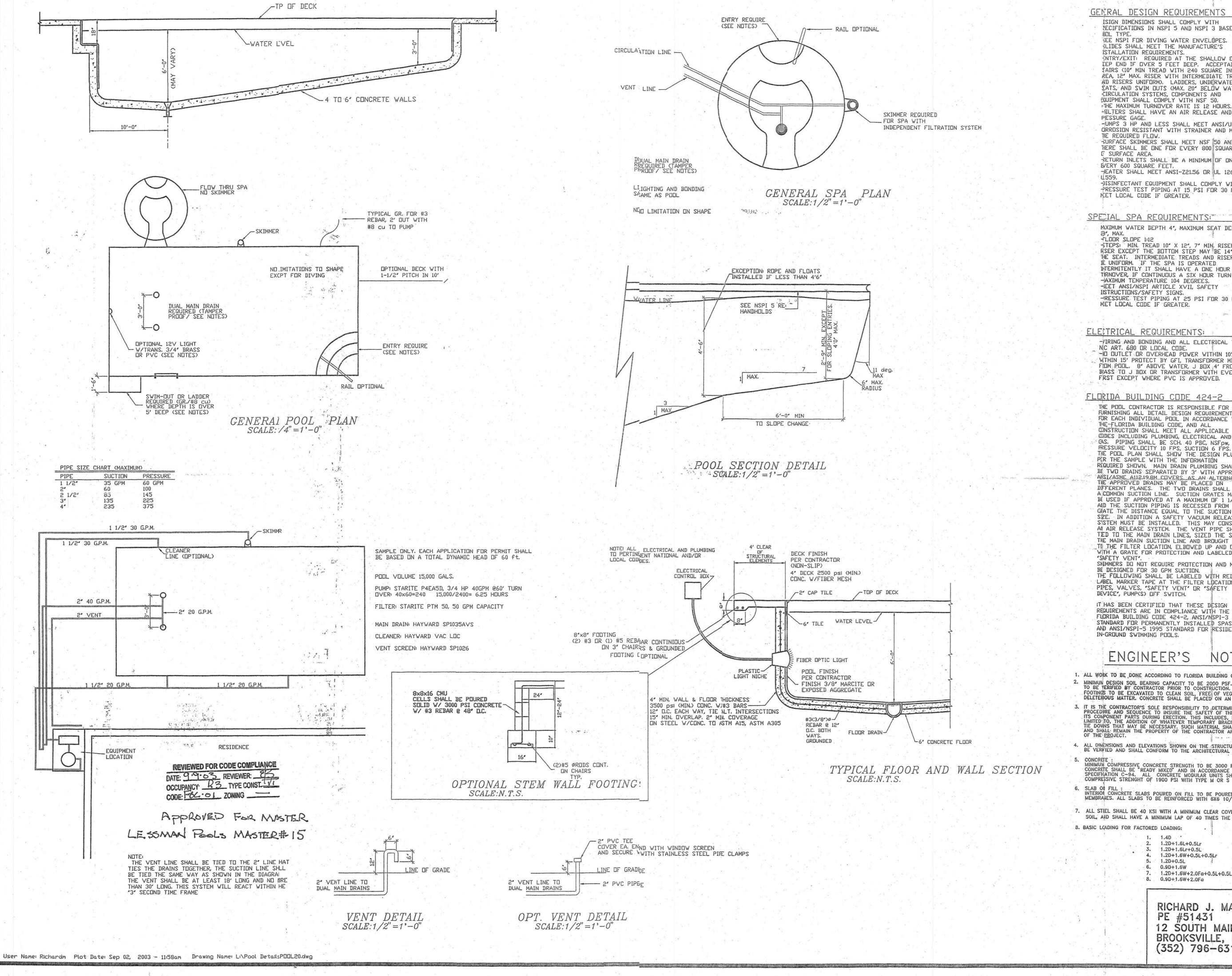
RICHARD J. MATASSA, P.E. PE #51431 12 SOUTH MAIN ST BROOKSVILLE, FL 34601 (352) 796-6319

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SPECIAL SPA REQUIREMENTS:

MXIMUM WATER DEPTH 4", MAXIMUM SEAT DEPTH FLOOR SLOPE 1:12 STEPS: MIN. TREAD 10" X 12", 7" MIN, RISER, 12" MAX. RSER EXCEPT THE BOTTOM STEP MAY BE 14" IF IT IS THE SEAT, INTERMEDIATE TREADS AND RISERS TO BE UNIFORM. IF THE SPA IS OPERATED INTERMITENTLY IT SHALL HAVE A DNE HOUR TIRNOVER, IF CONTINUOUS A SIX HOUR TURN OVER. -AXIMUM TEMPERATURE 104 DEGREES. -IEET ANSI/NSPI ARTICLE XVII, SAFETY INTRUCTIONS/SAFETY SIGNS. HRESSURE TEST PIPING AT 25 PSI FOR 30 MINUTES OR MET LOCAL CODE IF GREATER.

ELECTRICAL REQUIREMENTS: -VIRING AND BONDING AND ALL ELECTRICAL TO NC ART. 680 DR LOCAL CODE. -10 DUTLET OR OVERHEAD POWER WITHIN 10' IF WITHIN 15' PROTECT BY GFI, TRANSFORMER MIN. 10' FIDM POOL. 8" ABOVE WATER, J BOX 4" FROM POOL, BIASS TO J BOX OR TRANSFORMER WITH EVER IS

FRST EXCEPT WHERE PVC IS APPROVED. FLORIDA BUILDING CODE 424-2 THE POOL CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL DETAIL DESIGN REQUIREMENTS FOR EACH INDIVIDUAL POOL IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, AND ALL CINSTRUCTION SHALL MEET ALL APPLICABLE CAS. PIPING SHALL BE SCH. 40 PBC, NSFpw, MAX.
RESSURE VELOCITY 10 FPS, SUCTION 6 FPS. THE POOL PLAN SHALL SHOW THE DESIGN PLUMBING AS PLR 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
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A COMMON SUCTION LINE. SUCTION GRATES MAY BE USED IF APPROVED AT A MAXIMUM OF 1 1/2 FPS AND THE SUCTION PIPING IS RECESSED FROM THE GRATE THE DISTANCE EQUAL TO THE SUCTION PIPE SIZE. IN ADDITION A SAFETY VACUUM RELEASE SISTEM MUST BE INSTALLED. THIS MAY CONSIST OF AN AIR RELEASE SYSTEM. THE VENT PIPE SHALL BE TED TO THE MAIN DRAIN LINES, SIZED THE SAME AS THE MAIN DRAIN SUCTION LINE AND BROUGHT BACK TO THE FILTER LOCATION, ELBOWED UP AND OVER WITH A GRATE FOR PROTECTION AND LABELED "SAFETY VENT". SKIMMERS DO NOT REQUIRE PROTECTION AND MAY BE DESIGNED FOR 30 GPM SUCTION. THE FOLLOWING SHALL BE LABELED WITH RED LABEL MARKER TAPE AT THE FILTER LOCATION PIPES, VALVES, 'SAFETY VENT' DR 'SAFETY

FUDRIDA BUILDING CODE 424-2, ANSI/NSPI-3 1992, STANDARD FOR PERMANENTLY INSTALLED SPAS AND ANSI/NSPI-5 1995 STANDARD FOR RESIDENTIAL IN-GROUND SWIMMING POOLS.

#### ENGINEER'S NOTES

- 1. ALL WORK TO BE DONE ACCORDING TO FLORIDA BUILDING CODES. 2. MINIMUN DESIGN SOIL BEARING CAPACITY TO BE 2000 PSF. SOIL CAPACITY TO BE YERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION. FOOTINGS TO BE EXCAVATED TO CLEAN SOIL, FREE OF VEGETATION AND DELETERIOUS MATTER. CONCRETE SHALL BE PLACED ON AN UNDISTURBED BASE.
- 3. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS, OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER COMPLETION OF THE PROJECT.
- 4. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE VERFIED AND SHALL CONFORM TO THE ARCHITECTURAL DRAWINGS.
- MINIMUM COMPRESSIVE CONCRETE STRENGTH TO BE 3000 PSI IN 28 DAYS. ALL CONCRETE SHALL BE "READY MIXED" AND IN ACCORDANCE WITH A.S.T.M. SPECIFICATION C-94. ALL CONCRETE MODULAR UNITS SHALL HAVE A COMPRESSIVE STRENGHT OF 1900 PSI WITH TYPE M OR S MORTAR, 2000 PSI.
- SLAB ON FILL: INTERIOR CONCRETE SLABS POURED ON FILL TO BE POURED OVER WATERPROOF MEMBRANES. ALL SLABS TO BE REINFORCED WITH 6X6 10/10 WELDED WIRE MESH.
- 7. ALL STIEL SHALL BE 40 KSI WITH A MINIMUM CLEAR COVER OF 3" AGAINST SOIL, AND SHALL HAVE A MINIMUM LAP OF 40 TIMES THE DIAMETER OF THE REBAR. 8. BASIC LCADING FOR FACTORED LOADING:

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RICHARD J. MATASSA, P.E. PE #51431 12 SOUTH MAIN ST BROOKSVILLE, FL 34601 (352) 796-6319

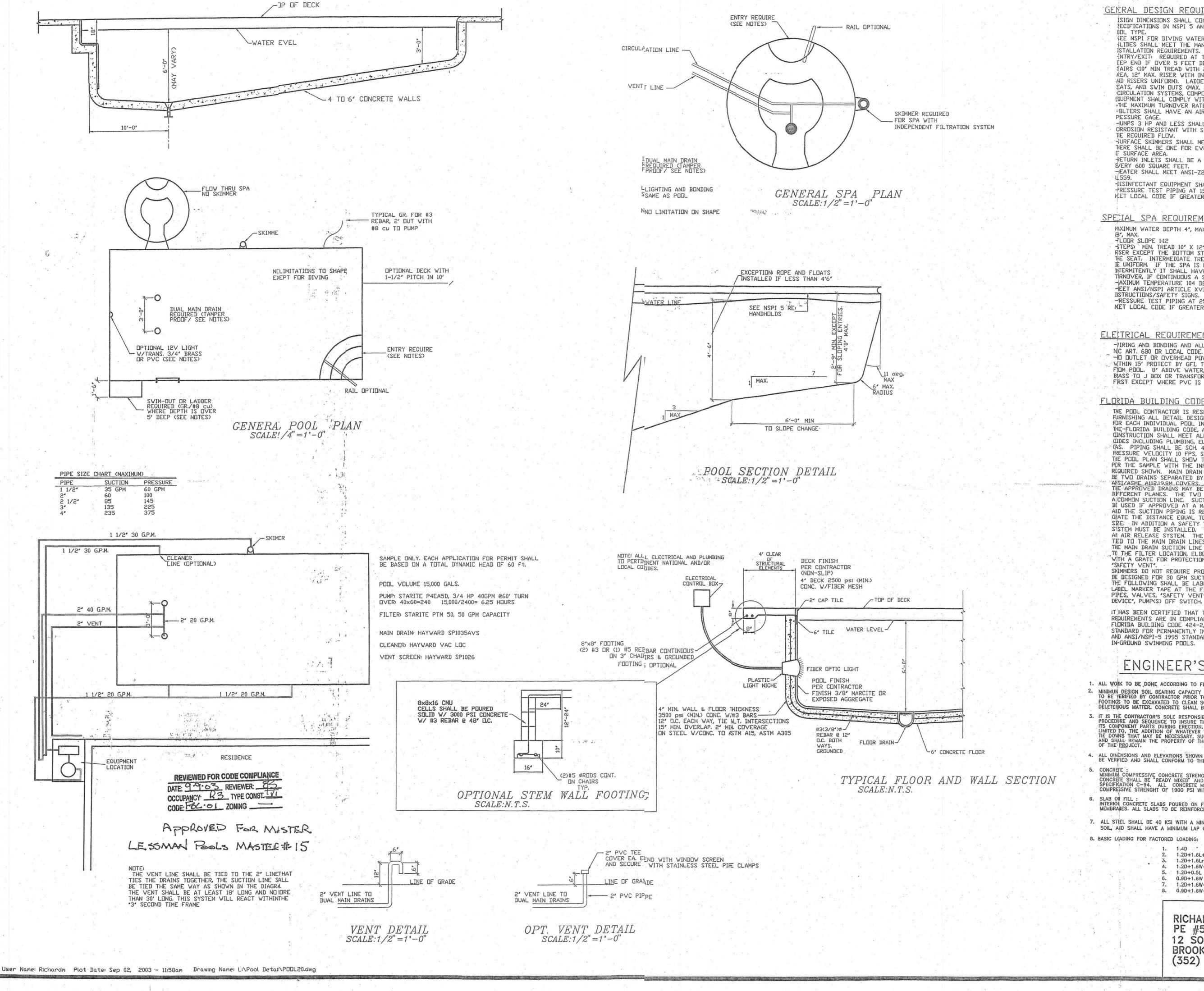
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IT HAS BEEN CERTIFIED THAT THESE DESIGN REQUIREMENTS ARE IN COMPLIANCE WITH THE FLORIDA BUILDING CODE 424-2, ANSI/NSPI-3 1992, STANDARD FOR PERMANENTLY INSTALLED SPAS AND ANSI/NSPI-5 1995 STANDARD FOR RESIDENTIAL IN-GROUND SWIMMING POOLS.

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800 Pool For:
LESSMAN POOLS
8258 225TH ROA
LIVE OAK, FL 32(
To Be Constructed By:
Homeowner 20

CIVIL-TECH CONSULTING ENGINEERS, IN 12 South Main Street Brocksville, Fl. 34605 (352) 796-6319 Fox - (352) 799-9203

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