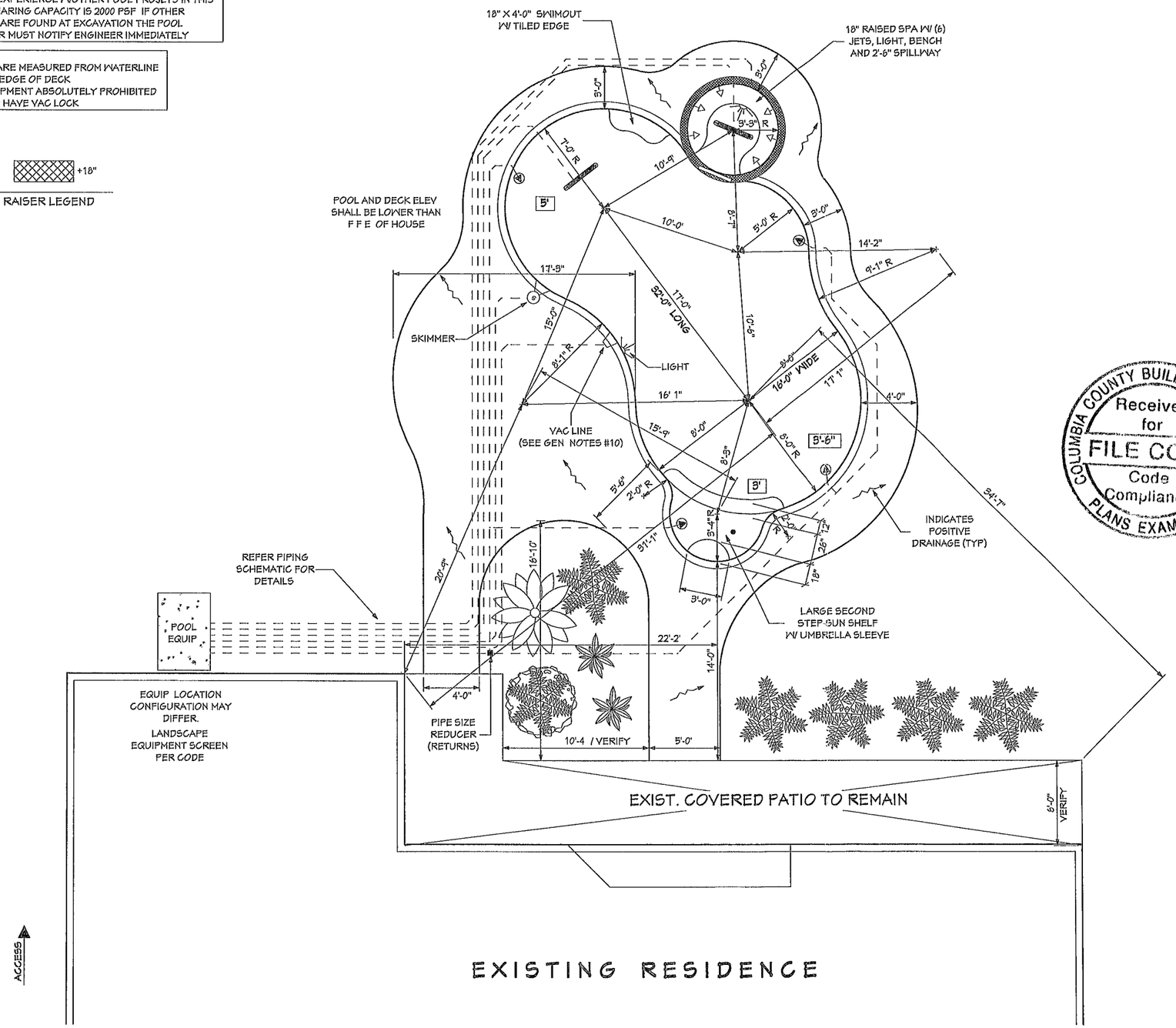
NOTE
BASED OUR EXPERIENCE WOTHER POOL PROJETS IN THIS AREA THE BEARING CAPACITY IS 2000 PSF IF OTHER CONDITIONS ARE FOUND AT EXCAVATION THE POOL CONTRACTOR MUST NOTIFY ENGINEER IMMEDIATELY

NOTES
-ALL DECKS ARE MEASURED FROM WATERLINE OF POOL TO EDGE OF DECK
DIVING EQUIPMENT ABSOLUTELY PROHIBITED
-VAC LINE TO HAVE VAC LOCK

+18"
RAISER LEGEND



POOL PLAN
SCALE 1/ 8" = 1'- 0"

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

POOL SPECIFICATIONS

POOL SIZE	32'-0" X 16'-0"	POOL DEPTH	3'-6" TO 5'
POOL CAPACITY	14,560 GAL	TURNOVER RATE	6 HRS MIN
POOL S F.	458 SF	POOL PERIMETER	90 LF

POOL EQUIPMENT

PUMP SIZE	VARIABLE SPD / PENTAIR	MODEL	VS IntelliFlo I1 011008 (1 0 HP)
FILTER	YES / 200 SF	MODEL	CARTRIDGE - PENTAIR
CHLORINATOR	SALT SYS	MODEL	TBD
POOL RETURNS	4	SKIMMER	1
CLEANING LINE	YES	LIGHT	(1) 12V 100W
HEATER TYPE	HEAT PUMP	MODEL - SIZE	TBD

WATER FEATURES

ROSETTE	NONE	LION HEADS	NONE
SHEER DESCENT	NONE	DECK JETS	NONE
SPRITZER	NONE	JET ON S-O	NONE
FEED LINE(S)	NONE	BUBBLER	NONE

FINISHING ITEMS

COPING	OVERPOUR	HANDHOLD TYPE	NONE
TILE	6"	TYPE OF NEW DECK	KOOL DECK
SWIMOUT SIZE	18" X 4'-0"	NEW DECK SF	650 SF
EXIT RAILINGS	NONE	CAPPING SF	NONE
AUTOMATION	NONE	BENCH SIZE	NONE
INTERIOR FINISH	QUARTZ SCAPE	DECK-O-DRAIN	NONE

ADDITIONAL FEATURES

SCREEN ENCL	NONE	FOOTER	NONE

SPA SPECIFICATIONS

SPA SIZE	6'-6' DIA.	DEPTH	3'-0"
SPA PUMP	NONE	SPA PERIMETER	21 LF
JETS	6	SPA S F	33 SF
SPA CAPACITY·	740 GAL	TURNOVER RATE	6 HRS MAX.
RAISED	18"	LIGHT	(1) 12 V 75 W
GLASS BLOCKS	NONE	BLOWER	NONE
SPILLWAY SIZE	2'-6"	ENTRY STEP	NONE

NOTES

PERIMETER BARRIER CHILD FENCE OR ALARMS BY OWNER PER SAFETY REQUIREMETS PAGE 2

FINAL DRAWING

APPROVED FOR LAYOUT, DIMENSIONS & EQUIPMENT I / WE UNDERSTAND THAT ANY CHANGES WILL INVOLVE AN ADDITIONAL CHARGE OF $350 00 FOR EVERY CHANGE MADE ALSO NO ENGINEERED PLANS WILL BE PROCESSED WITHOUT ORIGINAL SIGNED SALES DRAWING NO EXCEPTIONS

X DATE

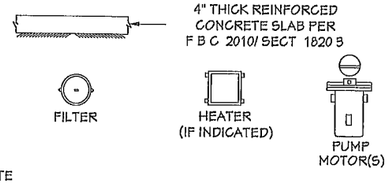
OUTBACK POOLS & WATERFALLS, INC.
931 NW SAVANNAH CIRC
LAKE CITY, FL , 32055
Phon (386) 755-9860-6677 / Fax · (386) 292-9295

STEPHEN JONES
235 SW EVA TERRACE
COLUMBIA COUNTY, FL.

MARK E WEBER LICENSE No 53895 STATE OF FLORIDA PROFESSIONAL ENGINEER

Mark E Weber, P E 53895
MW Engineering, Inc.
6810 North State Road 7
Coconut Creek, Florida, 33073
561-305-0476
4-11-2014

DATE: 4-9-14
SHEET 1 OF 4
ORDER#
B D.D.# 142792-B



NOTE
- •ANCHOR BOLTS THROUGH BASE WITH 1-3/4" x 3/16" TAPCON SCREW FOR POOL PUMP & FILTER
- •HEAT PUMP - (4) ANGLE BRACKETS, EA 2 1/2" IN LENGTH EACH BRACKET SHALL BE ATTACHED TO THE CONC WITH (1) 1-3/4" x 3/16" TAPCON SCREW AND ATTACHED TO THE EQUIP WITH (1) 1/2" SELF TAPPING SHEET METAL SCREW
- •POOL HEATER SHALL BE PROVIDED WITH A THERMOSTATIC OR HIGH PRESSURE CONTROL SWITCH OR OTHER ACCEPTABLE OVER HEATING PROTECTION DEVICE SO POOL WATER DOES NOT EXCEED 104 °F
- •COMPLIANT WITH FBC 2010

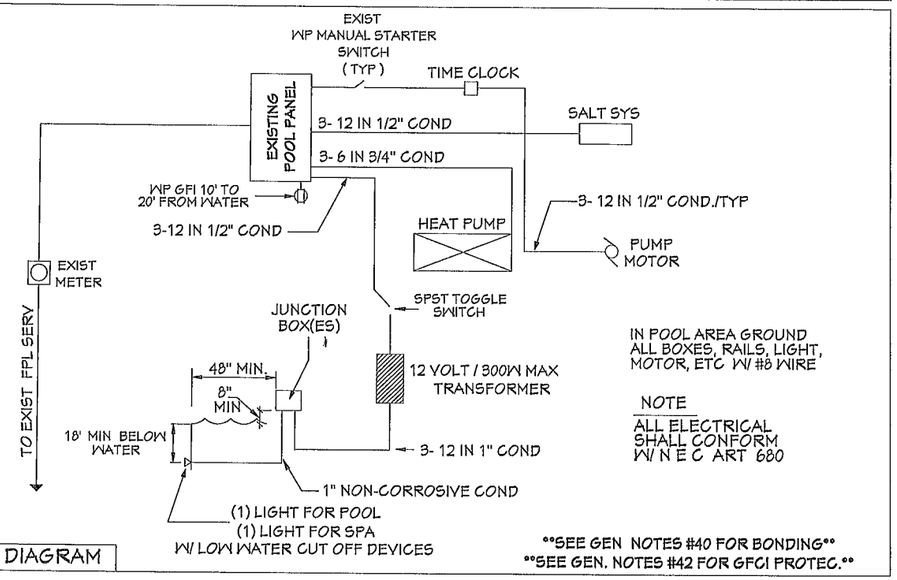
COMPLIANT W/ F B C 2010/301 12

POOL EQUIPMENT ANCHORING

PER FBC 2010 R4101.17.1 THROUGH R4101.17.3 & SECT. 424.2.17.1.1 THROUGH 424.2.17.1.14 RESIDENTIAL SWIMMING POOL MUST MEET ONE OF THE BELOW SAFETY FEATURES :

1. POOL MUST BE ISOLATED FROM ACCESS TO A HOME BY AN ENCLOSURE THAT MEETS THE POOL BARRIER REQ OF S 515 29
2. THE POOL MUST BE EQUIPPED W/ AN APPROVED SAFETY POOL COVER
3. ALL DOOR & WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL MUST BE EQUIPPED WITH AN EXIT ALARM THAT HAS A MIN SOUND PRESSU RATING OF 85dB A AT 10 FEET
4. ALL DOOR & WINDOWS PROVIDING DIRECT ACCESS FROM THE HOME TO THE POOL MUST BE EQUIPPED WITH A SELF CLOSING SELF LATCHING DEVICE WITH A RELEASE MECHANISM PLACED NO LOWER THAN 54 IN ABOVE THE FLOOR

SAFETY REQUIREMENTS



IN POOL AREA GROUND ALL BOXES, RAILS, LIGHT, MOTOR, ETC W/ #8 WIRE

NOTE
ALL ELECTRICAL SHALL CONFORM W/ N E C ART 680

SEE GEN NOTES #40 FOR BONDING
SEE GEN. NOTES #42 FOR GFCI PROTEC.

ELECTRICAL DIAGRAM

ENERGY EFFICIENCY COMPLIANCE ANSI/APSP-15 AND FBC

POOL CAPACITY:	14560	GALLONS
TURNOVER RATE:	41	GPM AT LOW SPEED (MIN. 36)
TURNOVER HOURS:	6.0	HOURS
MAX. FILTR. FLOW RATE:	41	DEFAULT SET
AUX LOAD:	SPA JETS	
FILTER:	CARTRIDGE	

VARIABLE SPEED PUMP CONTROLLER TO BE PROGRAMMED TO DEFAULT (ONE COMPLETE FILTRATION IN 6 HRS MIN.) WHEN NO AUX. POOL LOADS ARE OPERATING WITHIN 24 HRS AND PROGRAMMED WITH TEMPORARY OVERRIDE CAPABILITY FOR SERVICING

MAX SYSTEM FLOW RATE: 112

MFG:	PENTAIR
TYPE.	VARIABLE SPEED
MODEL.	VS IntelliFlo I1 011008 (1.0 HP)
CURVE "A"	33 GPM @ 1750 RPM APSP DATABASE
CURVE 'C":	41 GPM @ 1750 RPM APSP DATABASE

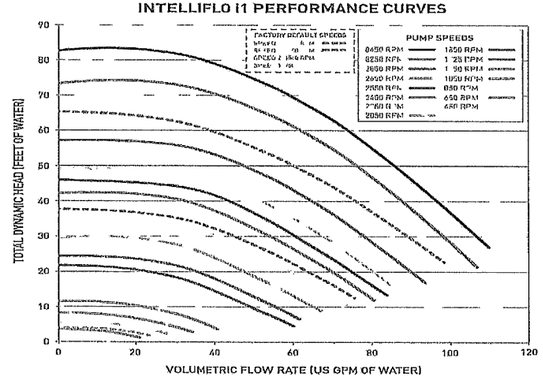
MAX. SYSTEM FLOW RATE DETERMINED FOR MAX. SPEED AND AND LOWEST HEAD ON PUMP CURVE

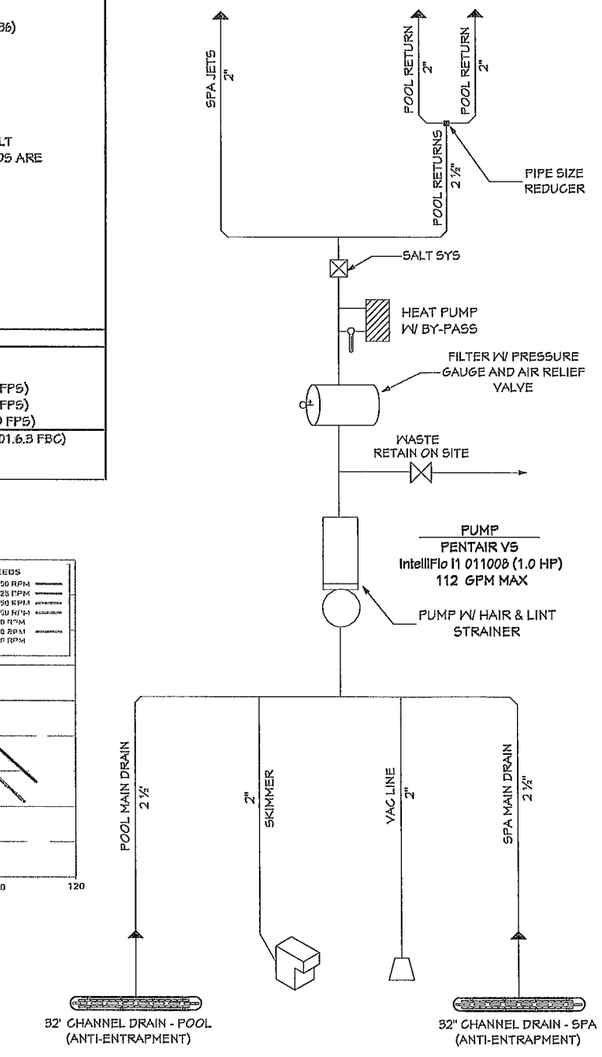
SUC. BRANCH:	N/A	@	N/A	FPS (MAX 6 FPS)
SUC. TRUNK:	2.5	@	7.50	FPS (MAX 8 FPS)
RETURN:	2.5	@	7.50	FPS (MAX 10 FPS)

RETURN (PRESSURE) PIPING SHALL NOT EXCEED 10 FPS (SECTION R4101.6.3 FBC)
SUCTION BRANCH SHALL NOT EXCEED 6 FPS (APSP/ANSI-7)
SUCTION TRUNK SHALL NOT EXCEED 8 FPS (ANSP/ANSI 7)

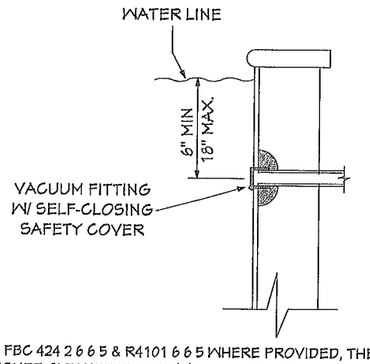
(USED NOMINAL INSIDE DIAMETER OF PIPES)

INTELLIFLO I1 PERFORMANCE CURVES





PIPING SCHEMATIC

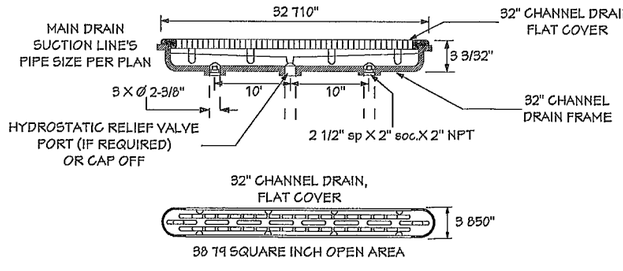


PER FBC 424 2 6 6 5 & R4101 6 6 5 WHERE PROVIDED, THE VACUUM OR PRESSURE CLEANER FITTING(S) SHALL BE LOCATED IN AN ACCESSIBLE POSITION AT LEAST 6 INCHES AND NOT GREATER THAN 12 INCHES BELOW THE MINUMUM OPERATING WATER LEVEL, OR AS AN ATTAHMENT TO THE SKIMMER.ALL CLEANER SUCTION INLETS SHALL BE PROTECTED BY AN APPROVED, PERMANENTLY INSTALLED, SELF CLOSING FLAPPER ASSEMBLY

VAC LINE DETAIL

MODEL
** CUSTOM MOLDED PRODUCTS CMP# 25506-32X-000 32' CHANNEL DRAIN COVER W/ CMP# 25506-320-010 SUMP -3 PORTS**
ONE PORT CENTER 200 GPM- ON FLOOR & 168 GPM-ON WALL W/ 2½" PLUMBING
OUTER 2 PORTS 308 GPM- ON FLOOR & 212 GPM-ON WALL W/ 2½" PLUMBING
OPEN AREA OF SUCTION COVER. 38 79 SQ IN

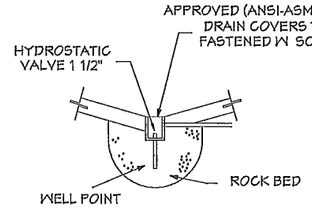
NOT APPROVED FOR THREE PORT CONNECTION
(DO NOT EXCEED MAX. FLOW-SUCTION RATE) CAP OFF UNUSED PORT(S)



32" CHANNEL DRAIN

SEE GEN NOTES #7, 8
PER F B.C 2010/ SECT 424.2.6 6 & ANSI/APSP-7

MAIN DRAIN DETAIL



WELL POINT DETAIL

CONTRACTOR
OUTBACK POOLS & WATERFALLS, INC.
931 NW SAVANNAH CIRC
LAKE CITY, FL., 32055
Phon (386) 755-1960-66TT / Fax (386) 292-4295

CUSTOMER
STEPHEN JONES

DATE	4-10-14
SHEET	2 OF 4
B.D.D #	142792-B
ORDER#	

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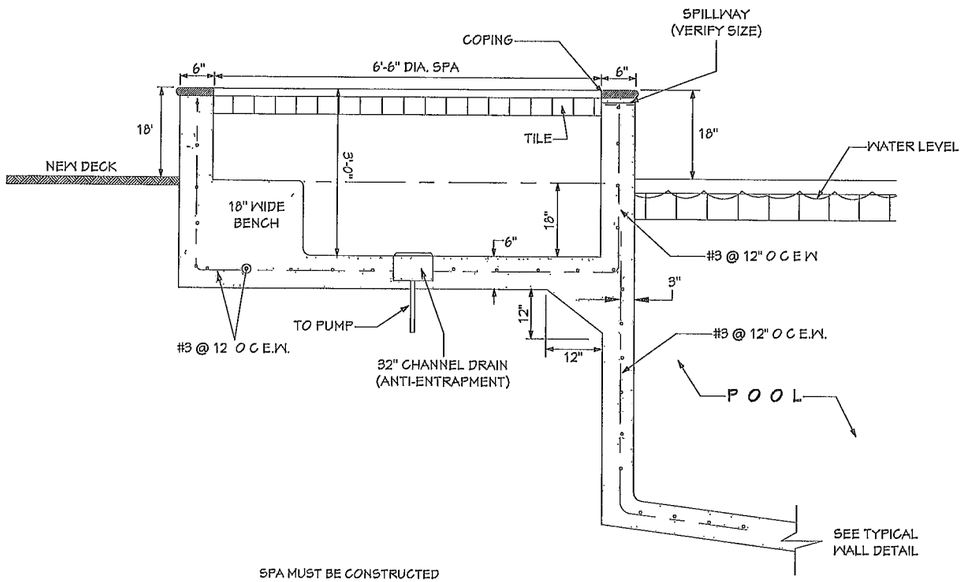
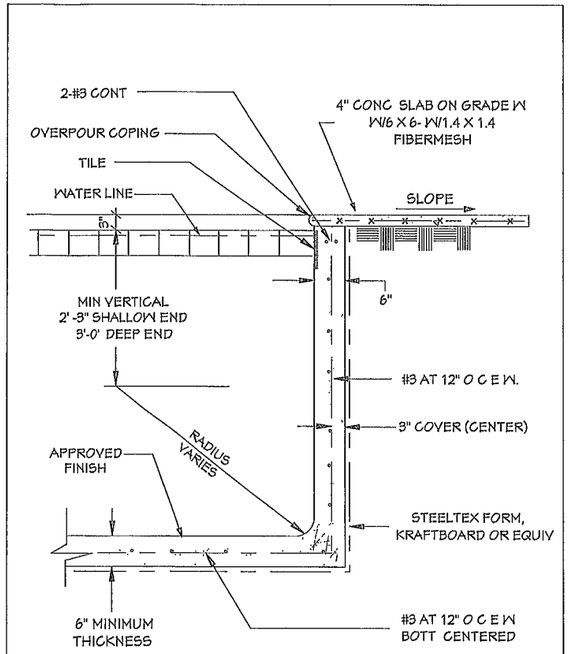
4-11-2014

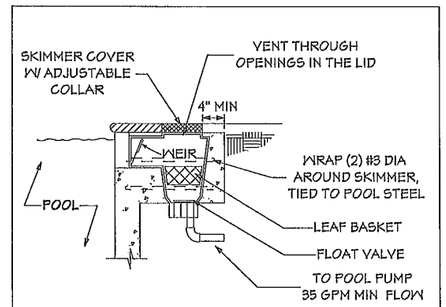


SPA MUST BE CONSTRUCTED
ON CLEAN, UNDISTURBED FILL
SEE GEN NOTES #31 FOR COMPACTION

SPA DETAIL NTS

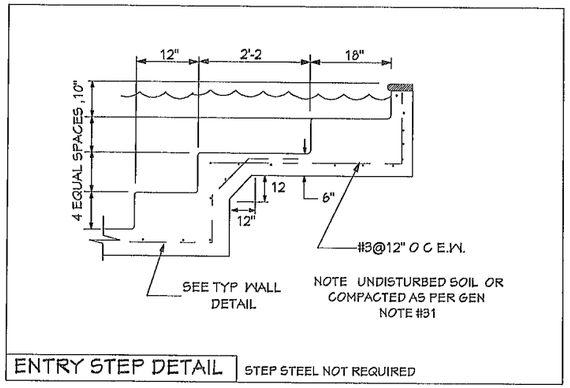


TYPICAL WALL SECTION NTS FOR THE DEPTHS UP TO 6'

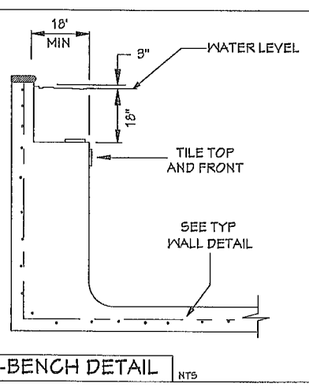


SKIMMERS SHALL BE INSTALLED
ON THE BASIS OF ONE PER 800
SF OF SURFACE AREA OR
FRACTION THEREOF

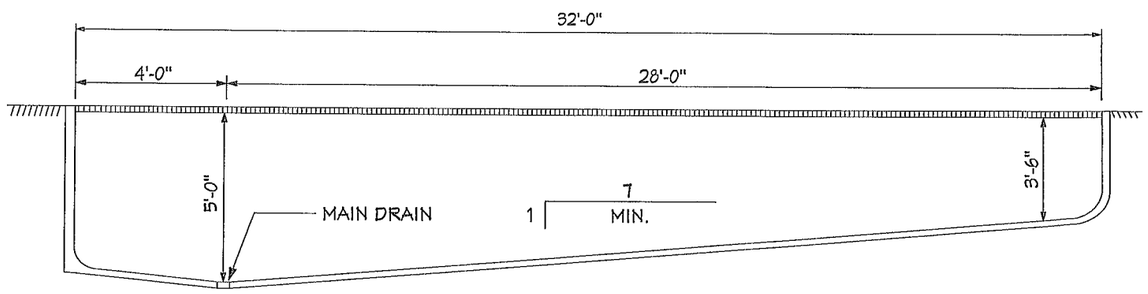
SKIMMER DETAIL



ENTRY STEP DETAIL STEP STEEL NOT REQUIRED

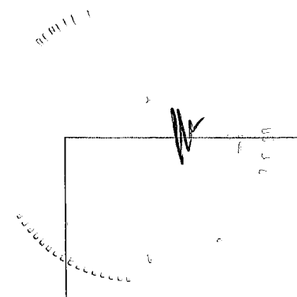


SWIMOUT-BENCH DETAIL NTS



IMPORTANT NOTE:
NO DIVING BOARD AND NO DIVING IS ALLOWED ON ANY POOL
LESS THAN 8'-0" DEEP AND SPECIFICALLY DESIGNED FOR DIVING
THIS POOL IS NOT DESIGNED FOR DIVING.

LONGITUDINAL POOL SECTION



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CUSTOMER
STEPHEN JONES

DATE.	4-10-14
SHEET	3 OF 4
ORDER#	
B D.D.#	142742-B

GENERAL NOTES

1- CODE REQUIREMENTS :
PRIVATE SWIMMING POOL AND SPAS MUST COMPLY WITH CHAPTER 4, SECTION 424 & CHAPTER 41 SECTION R4101 FLORIDA BUILDING CODE 2010

2- MECHANICAL REQUIREMENTS :
ALL PIPING EQUIPMENT AND MATERIALS USED IN THE PLUMBING SYSTEM OF SWIMMING POOLS AND SPAS THAT ARE BUILT IN PLACE SHALL CONFORM TO THE FLORIDA BUILDING CODE 2010 PLUMBING 424.2.3 & R4101.3 ALL PIPING MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION STANDARDS

3- COMPLIANCE :
ALL MATERIALS PIPING VALVES EQUIPMENT OR APPLIANCES ENTERING INTO THE CONSTRUCTION OF SWIMMING POOLS-SPAS OR PORTIONS THEREOF SHALL BE OF A TYPE COMPLYING WITH THE CODE OR OF A TYPE RECOMMENDED AND APPROVED BY A NATIONALLY RECOGNIZED TESTING AGENCY OR CONFORMING TO OTHER RECOGNIZED STANDARDS ACCEPTABLE TO ADMINISTRATIVE AUTHORITY

4- ENGINEERING DESIGN
DESIGN CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMITY WITH FBC-2010 SEC 424.2.6.1 & SECTION R4101.6.1 PRIVATE SWIMMING POOLS, ALSO, ANSI/NSPI 3 4 5 6 AND ANSI/APSP-7 PUBLISHED BY THE INTERNATIONAL AQUATICS FOUNDATION OR OTHER ACCEPTED ENGINEERING PRACTICES.

5- TESTING AND CERTIFICATION :
ALL POOL AND SPA SUCTION INLETS SHALL BE PROVIDED WITH A COVER THAT HAS BEEN TESTED AND ACCEPTED BY A RECOGNIZED TESTING FACILITY AND COMPLY WITH ANSI/ASME A112 19.8M " SUCTION FITTINGS FOR USE IN SWIMMING POOLS SPAS HOT TUBS AND WHIRPOOL BATHTUB APPLIANCES' EXCEPTION SURFACE SKIMMERS.

6- SAFETY NOTE .
DO NOT USE OR OPERATE POOL OR SPA IF THE SUCTION INLET FITTING IS BROKEN, MISSING OR LOOSE

7-WATER VELOCITY PER ANSI/APSP-7 2006 #4.4
WATER VELOCITY IN FIELD FABRICATED PIPING IS BASED ON THE MAX. SYSTEM FLOW RATE MAX. WATER VELOCITY IN BRANCH PIPING (THE PIPING BETWEEN THE DRAINS) SHALL BE LIMITED TO 6 FEET PER SECOND IFPS WHEN ONE OF A PAIR IS BLOCKED IN NORMAL OPERATION THEN THE BRANCH SUCTION PIPING VELOCITY IS 9 FEET PER SECOND IFPS. ALL OTHER SUCTION PIPING VELOCITIES SHALL BE 6 FPS FOR PUBLIC POOLS OR 8 FPS FOR RESIDENTIAL POOLS

8-MAX. SYSTEM FLOW RATE PER ANSI/APSP-7 2006 #4.4.1
THE MAXIMUM SYSTEM FLOW RATE SHALL BE DETERMINED BY ONE OF THE FOLLOWING·
- TDH CALCULATION FOR THE CIRCULATION SYSTEM OF EACH PUMP OR
  SIMPLIFIED TDH CALCULATION OR
- THE MAX. FLOW CAPACITY (DETERMINE FROM PUMP FLOW CURVE) OF THE NEW OR REPLACEMENT PUMP WHICH SHALL BE LIMITED BY THE CRITERIA OF ANSI/APSP 7 #4.4

IMPORTANT NOTE IF THE MAX. PUMP FLOW RATE GREATER THAN DRAIN FLOW RATE OR 8 FPS SUCTION FLOW RATE OR 10 FPS DISCHARGE FLOW RATE THEN THE 'MAX. FLOW FROM THE PUMP CURVE' OPTION HAS FAILED
IF SO THE TOTAL DYNAMIC HEAD TDH CALCULATION SHALL BE REQUIRED TO DETERMINE IF THE SYSTEM IS ACCEPTABLE. USING TDH, DETERMINE NEW MAX. FLOW RATE FROM PUMP CURVE, IF IT IS GREATER THAN DRAIN FLOW RATE OR 8 FPS SUCTION FLOW RATE OR 10 FPS DISCHARGE FLOW RATE THE SYSTEM IS NOT ACCEPTABLE.
IF A VARIABLE SPEED PUMP IS USED USE THE MAX. PUMP FLOW IN CALCULATIONS
- FOR SIDE DRAINS USE APPROPRIATE SIDE WALL DRAIN FLOW AS PUBLISHED BY MANUFACTURER
IN-FLOOR SUCTION OUTLET COVER/GRATE MUST CONFIRM TO MOST RECENT EDITION OF ASME/ANSI A112 19.8 AND BE EMBOSSED WITH THAT EDITION
PUMP FILTER & HEATER MAKE AND MODEL CANNOT BE CHANGED AND EQUIPMET LOCATION CANNOT BE MOVED CLOSER TO POOL WITHOUT SUBMITTING A REVISED PLAN AND TDH CALCULATION FOR APPROVAL
- MIN SYSTEM FLOW BASED ON MI FLOW PER SKIMMER OF 35 GPM
SYSTEM FLOW RATE MUST NOT EXCEED APPROVED COVER FLOW RATES
CENTER TO CENTER DISTANCE BETWEEN THE SUCTION PIPE OUTLETS SHALL BE 36 INCH MIN
CHANNEL TYPE (WITH 2 OR 3 OUTLETS IN ONE PORT) SHALL BE AT LEAST 9' WIDE BY 31" LONG

9- PUMP ·
PER FBC 2010 SECTION 424.2.7.1 STRAINER. POOL CIRCULATING PUMPS SHALL BE EQUIPPED ON THE INLET SIDE WITH AN APPROVED TYPE HAIR AND LINT STRAINER WHEN USED WITH A PRESSURE FILTER. PER 424.2.7.2 INSTALLATION TO BE COMPLETED IN ACCORDANCE MANUF'S RECOMMEDATIONS. PER 424.2.7.3 CAPACITY , PUMPS SHALL HAVE DESIGN CAPACITY AT THE FOLLOWING HEADS, 1) PRESSURE DIATOMACEOUS EARTH-A LEAST 60 FEET 2) VACUUM D E 20 INCH VACUUM ON THE SUCTION SIDE AND 40 FEET TOTAL HEAD 3) RAPID SAND - AT LEAST 45 FEET, 4)HIGH RATE SAND- AT LEAST 60 FEET PER 424.21.4 PUMP IMPELLERS SHAFT WEAR RINGS AND OTHER WORKING PARTS SHALL BE CORRISION RESISTANT MATERIALS

10- CLEANER FITTINGS :
PER ANSI/NSPI-3 9.12.10 THE VACUUM OR PRESSURE CLEANER FITTING(S) SHALL BE LOCATED IN AN ACCESSIBLE POSITION AT LEAST 6 INCHES AND NOT GREATER THAN 18 INCHES BELOW THE MINUMUM OPERATING WATER LEVEL, OR AS AN ATTACHMENT TO THE SKIMMER.ALL CLEANER SUCTION INLETS SHALL BE PROTECTED BY AN APPROVED, PERMANENTLY INSTALLED, SELF CLOSING FLAPPER ASSEMBLY

11- VALVE :
PER FBC 2010 SECTION 424.2.8.1 & R4101 8.1 VALVES SHALL BE MADE OF MATERIALS THAT ARE APPROVED IN THE FLORIDA BUILDING CODE PLUMBING VALVES LOCATED UNDER CONCRETE SLABS SHALL BE SET IN A PIT HAVING A LEAST DIMENSION OF FIVE PIPE DIAMETERS MINIMUM 10 INCHES FITTED WITH A SUITABLE COVER

12- WASTE WATER DISPOSAL ·
PER FBC 424.2.10 & R4101.10 DIRECT OR INDIRECT CONNECTIONS CANNOT BE MADE TO EXISTING FACILITIES UNLESS APPROVED BY THE ADMINISTRATIVE AUTHORITY

13- PIPING :
PIPING SHALL BE SCH 40 BEARING NSF APPROVAL PER FBC 2010 R4101 PIPING CAN BE (IF NEEDED) ENCASED IN THE CONCRETE OF THE POOL SHELL

14- TESTS :
ALL POOL PIPING SHALL BE INSPECTED AND APPROVED BEFORE COVER OR CONCEALMENT IT SHALL BE TESTED AND PROVEN TIGHT UNDER A STATIC WATER OR AIR PRESSURE TEST OF NOT LESS THAN 35 PSI FOR 15 MINUTES PER MANUFACTURER'S RECOMMENDATIONS NO AIR TEST SHALL BE APPROVED FOR PVC PIPE AND FITTINGS SECTION 424.2.12.1 & R4101 12.1 & R4101 12.2 PRESSURE TESTS

15- WATER HEATING EQUIPMENT :
SWIMMING POOL WATER HEATING EQUIPMENT SHALL CONFORM TO THE DESIGN CONSTRUCTION AND INSTALLATION REQUIREMENTS IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICES AND SHALL BEAR THE LABEL OF A RECOGNIZEDTESTING AGENCY, AND SHALL INCLUDE A CONSIDERATION OF COMBUSTION AIR, VENTING AND GAS SUPPLY REQUIREMENTS FOR WATER HEATERS SEC. 424.2.14.1 & R4101 14.1 IT MUST CONTAIN A THERMOSTATIC OR HIGH PRESSURE CONTROL SWITCH SO THE POOL WATER DOES NOT EXCEED 104 DEGREES F SEC. 424.2.14.4 & R4101 14.4 WATER HEATING EQUIPMENT SHALL BE INSTALLED WITH FLANGES OR UNION CONNECTIONS ADJACENT TO THE HEATER. WATER HEATING EQUIPMENT-SWIMMING POOL WATER HEATING EQUIPMENT SHALL COMPLY WITH FBC 2010 SECTION 412.1 ALL HEATERS MUST HAVE AN INTERNAL CHECK VALE PER FBC 13-612 1.ABC.2.9.2 THE POOL AND SPA SHALL BE PROVIDED WITH A COVER TO REDUCE HEAT LOSS (IF REQUIRED BY THE CITY). HEATER EFFICIENCY GAS/OIL FIRED 78% MIN HEAT PUMP COP 4.0 MIN

16- GAS PIPING :
GAS PIPING SHALL COMPLY WITH FBC 2010 SECTION 424.2.15 & R4101 15 FUEL GAS

17- ELECTRICAL :
POOL LOCATION AND ELECTRICAL WIRING AND EQUIPMENT SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE 2008 SPECIFICALLY SECTION 680

18- LADDERS AND STEPS .
PER FBC 2010 SECTION 424.2.18 & R4101 18 ALL POOLS SHALL BE PROVIDED WITH A LADDER OR STEPS INTHE SHALLOW END WHERE WATER EXCEEDS 24 INCHES. WHERE WATER DEPTH EXCEEDS 5 FEET THERE SHALL BE LADDERS STAIRS OR UNDERWATER BENCHES/SWIMOUTS IN THE DEEP END

19- FILTERS :
PER FBC 2010 SECTION 424.2.20 & R4101.20 THE ENTIRE DESIGN OF MATCHED COMPONENTS SHALL HAVE SUFFICENT CAPACITY TO PROVIDE A COMPLETE TURNOVER OF POOL WATER IN 12 HOURS OR LESS

20- POOL FITTINGS ·
PER FBC 2010, SECTION 424.2.21 & R4101.21 POOL FITTINGS SHALL BE OF AN APPROVED TYPE AND DESIGN AS TO BE APPROPRIATE FOR THE SPECIFIC APPLICATION PER FBC 2010, SECTION 424.2.13.2 JOINTS AND C CONNECTIONS, FBC PLUMBING SEC 605.21, PURPLE PRIMER REQUIRED ON PVC PIPING

21- SKIMMERS ·
PER FBC 2010 SECTION 424.2.21.2 & R4101.21.2 SKIMMERS SHALL BE INSTALLED ON THE BASIS OF ONE PER 800 SF OF SURFACE AREA OR FRACTION THEREOF

22- HYDROSTATIC RELIEF DEVICE ·
PER FBC 2010 SECTION 424.2.21.4 & R4101.21.4 IN AREAS OF ANTICIPATED WATER TABLE, AN APPROVED HYDROSTATIC RELIEF DEVICE SHALL BE INSTALLED EXCEPTION IS PLASTIC LINER POOLS.

23- CONCRETE / STEEL :
CONCRETE IS TO BE A MIX DESIGNED IN ACCORDENCE WITH ASTM C-94 BY A RECOGNIZED TESTING LABORATORY TO ACHIEVE A STRENGTH OF 4000 PSI, AT 28 DAYS (UNLESS OTHERWISE NOTED) WITH A PLASTIC AND WORKABLE MIX. PNEUMATICALLY APPLIED CONCRETE AND/OR SHOTCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304.2R-04 AND ACI 506.2-04, RESPECTIVELY ALL OTHER CONCRETE SHALL BE PLACED IN ACCORDANCE WITH ACI 304R-04. A CERTIFICATE OF MANUFACTURER'S MIX AND STRENGTH IS TO BE PROVIDED NO WATER IS TO BE ADDED AFTER TRUCK LEAVES PLANT WITHOUT APPROVAL OF ENGINEER. PLANT CONTROL IS REQUIRED MAXIMUM MIX TIME AT POINT OF DEPOSIT IS 90 MINUTES CONCRETE WORK SHALL BE AS PER REQUIREMENTS AND RECOMMENDATIONS OF ACI 301-04 REINFORCING DEFORMED STEEL BARS SHALL BE A615 GRADE 60 (UNLESS OTHERWISE NOTED), FREE FROM OIL, LOOSE SCALE AND LOOSE RUST REINFORCING, DEFORMED STEEL BARS SHALL BE BENT LAPPED, PLACED, SUPPORTED AND FASTENED ACCORDING TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES (ACI 315-04) AND THE BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE (ACI 318-04). IN CASE OF CONFLICT, THE MORE CONSERVATIVE VALUE(S) SHALL BE USED

24- SOIL STATEMENT ·
IN ACCORDANCE WITH FBC SECTION 1818, HVHZ BEARING CAPACITY OF SOIL , BASED UPON RATIONAL ANALYSIS AND KNOWN VALUES IN THE VICINITY, THE IN-PLACE BEARING CAPACITY OF THE SOIL BENEATH THE POOL AND RELATED STRUCTURES SHOWN WITHIN THESE PLANS IS 2000 PSF AFTER EXCAVATION AND COMPACTION IN ACCORDANCE WITH CURRENT EDITION OF FBC. SHOULD ANY MUCK, MARL OR OTHER ORGANIC SOILS BE DISCOVERED ON EXCAVATION, THEY SHOULD BE REMOVED IN THEIR ENTIRETY ALL CONSTRUCTION SHALL STOP AND THE ENGINEER OF RECORD SHALL BE CONTACTED TO CONDUCT AN INSPECTION STRUCTURAL ELEMENTS ARE DESIGNED WITH A REQUIRED BEARING CAPACITY OF 2000 PSF, UNLESS OTHERWISE SPECIFIED CONTRACTOR SHALL PROVIDE BUILDING DEPARTMENT SOIL REPORT TO VERIFY BEARING CAPACITY FOR ALL STRUCTURES BUILT WITHIN 15 FEET OF CANAL, LAKES OR OTHER BODIES OF WATER.

25- POOL STAKING :
THIS DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR POOL CONSTRUCTION IN EASEMENT OR REQUIRED SETBACKS AREAS. PLOT PLANS NOT PREPARED FROM LEGAL SURVEYS OF THE EXISTING LOT AND RESIDENCE ARE SO INDICATED THE POOL CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD AND ESTABLISH LOT LINES & LOCATION OF UTILITIES AT THE SITE AND CONTACT THE H O E IF DIFFERENT THAN INDICATED ON PLAN MINIMUM CLEARENCE DIMENSIONS SHALL BE HELD AS REQUIRED BY THE LOCAL REGULATORY AGENCY

26- EXISTING STRUCTURES ·
THE POOL CONTRACTOR SHALL ALWAYS TAKE ALL PRECAUTIONS TO PROTECT EXISTING STRUCTURES FROM FAILURE BY SHEETING AND/OR SHORING OR OTHER METHODS. THE DESIGN ENGINEER ACCEPTS NO RESPONSIBILITY FOR THE SAFETY OF EXISTING STRUCTURES.
IN CASE OF FOOTINGS UNDERMINING, CONTRACTOR SHALL POUR CONCRETE BETWEEN POOL AND FOOTING TOP OF CONCRETE SHALL BE BOTTOM OF FOOTING WIDTH OF POURED CONCRETE SHALL BE FOOTING WIDTH AT A MINUMUM

27- WATER SERVICE :
PER FBC 2010 SECTION 424.2.9 & R4101 9 UNLESS AN APPROVED TYPE OF FILLING SYSTEM IS INSTALLED ANY WATER SUPPLY WHICH IN THE JUDGMENT OF THE ADMINISTRATIVE AUTHORITY MAY BE USED TO FILL THE POOL, SHALL BE EQUIPPED WITH BACKFLOW PROTECTION NO OVER THE RIM FILL SPOUT SHALL BE ACCEPTED UNLESS LOCATED UNDER A DIVING BOARD OR PROPERLY GUARDED

28- CONCRETE SLABS :
ALL POOL EQUIPMENT SLABS SHALL COMPLY WITH SECTION 1820.3 OF FBC 2010

29- HANDHOLD
ANSI-NSPI-5 ARTICLE XV SECTION 15 13 A SECURED ROPE OR CERAMIC HANDHOLDS MUST BE PLACED AT OR NO MORE THAN 12' ABOVE THE NORMAL WATERLINE OF THE POOL

30- POWER LINE :
OVERHEAD ELECTRIC LINES MUST BE LOCATED 10 FEET AND UNDERGROUND ELECTRIC LINES MUST BE LOCATED 5 FEET FROM POOL WATER EDGE

31- BACKFILL & COMPACTION
REMOVE FROM EXCAVATION ALL FORMS, WOOD DEBRIS AND OTHER DELETERIOUS MATERIALS BACKFILL CONSTRUCTION AREAS TO PROPER ELEVATION, AS NEEDED USING PROPERLY COMPACTED CLEAN GRANULAR MATERIAL FREE OF ORGANICS AND OTHER DELETERIOUS MATERIALS.

32- WARNING
TO EMPTY POOL AFTER CONSTRUCTION FOR REPAIRS OR ANY OTHER REASON THE HYDROSTATIC UPLIFT PRESSURES BENEATH THE POOL MUST BE ELIMINATED TO PREVENT THE POOL FROM FLOATING UPWARD THE OWNER MUST CONSULT A POOL CONTRACTOR OR POOL REPAIR CONTRACTOR EXPERIENCED IN ELIMINATING UPLIFT PRESSURES.

33- NOTE 1
THIS PLAN IS NOT TRANSFERABLE FROM ONE CONTRACTOR TO ANOTHER

34- NOTE 2 :
UNLESS OTHERWISE SPECIFIED ALL DETAILS SHOWN ARE NOT TO SCALE

35- NOTE 3 :
POOL WALL SHALL BE REINFORCED WITH #3@6" O.C.E.W. WHERE LESS THAN 5 FEET FROM ANY EXISTING STRUCTURE OR PATIO (SEE SHEETING & SHORING DETAIL)

36- NOTE 4 :
POOL AND DECK ELEVATION SHALL BE LOWER THAN FINISH FLOOR ELEVATION OF THE HOUSE

37- NOTE 5
THERE IS ALWAYS THE POSSIBILITY THAT CONDITIONS IN THE FIELD MAY BE DIFFERENT FROM THOSE INDICATED IN AN ENGINEERING PERMIT DRAWINGS; THEREFORE, IF DIFFERENT CONDITIONS ARE ENCOUNTERED BEFORE OR DURING CONSTRUCTION THE ENGINEER OF RECORD SHALL BE NOTIFIED TO REVIEW THE FINDINGS AND MAKE RECOMMENDATIONS AS NEEDED

38- NOTE 6 :
STRUCTURAL ENGINEER MUST CERTIFY OR DESIGN REPLACEMENT ANCHOR AND DEADMAN SYSTEM FOR SEAWALL WITH IN 15 FEET OF POOL.SEAWALL ANCHOR SYSTEM INSTALLATION MUST BE COMPLETE PRIOR TO START OF POOL CONSTRUCTION

39- NOTE 7 ·
NO DIVING BOARD AND NO DIVING IS ALLOW ON ANY POOL LESS THAN 8 FEET DEEP AND SPECIFIALLY DESIGN FOR DIVING

40- BONDING
CONTINUOUS SINGLE #8 AWG BARE COPPER WIRE SHALL BE BURIED TO A MIN 4 TO 6" BELOW SUBGRADE, 18" TO 24" FROM INSIDE THE WALL OF SWIMMING POOL- SPA AROUND THE SWIMMING POOL-SPA PERIMETER, AND SHALL BE CONNECTED TO THE POOL STEEL REINFORCEMENT AT A MIN 4 DIFFERENT LOCATIONS, EQUALLY SPACED

41- NOTE 8 :
THIS LAYOUT HAS BEEN REPRODUCED USING A LEGAL SURVEY PROVIDED BY POOL CONTRACTOR. POOL AND SPA DESIGNS SHALL NOT BE HELD RESPONSIBLE FOR INACCURATE OR ILLEGIBLE INFORMATION REPRESENTED ON THE SURVEY PROVIDED BY THE POOL CONTRACTOR. ALL LOT LINES AND EASEMENT LINES SHALL BE LOCATED IN FIELD PRIOR TO CONSTRUCTION THE DIMENSIONS SHOWN IN THIS LAYOUT SHALL ALSO BE CONFIRMED FOR ACCURACY POOL AND SPA DESIGNS INC SHALL NOT BE HELD LIABLE FOR ANY CONSTRUCTION ERRORS RESULTING IN FAILURE TO COMPLY WITH THIS RECOMMENDATION

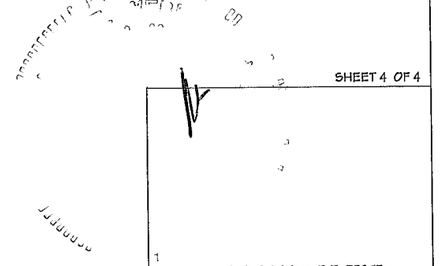
42- GFCI PROTECTION
GFCI PROTECTION , OUTLETS SUPPLYING POOL PUMP MOTORS FROM BRANCH CIRCUITS WITH SHORT-CIRCUIT AND GROUND -FAULT PROTECTION RATED 15 OR 20 AMPERES 125 VOLT OR 240 VOLT SINGLE PHASE, WHETHER BY RECEPTACLE OR DIRECT CONNECTION SHALL BE PROVIDED WITH GROUND-FAULT CIRCUIT-INTERRUPTER PROTECTION FOR PERSONNEL PER NEC 2008 680.22 (B)

43-ENERGY EFFICIENCY COMPLIANCE
THE ENERGY REQUIREMENTS FOR RESIDENTIAL POOLS AND INGROUND SPAS SHALL BE AS SPECIFIED IN FBC 2010 SECTIONS 403.9.1 THROUGH 403 9.4 AND ANSI/APSP-15

44-BARRIER NOTE
OUTDOOR SWIMMING POOLS AND SPAS SHALL BE PROVIDED WITH A PERMANENT BARRIER THAT SHALL BE INSTALLED INSPECTED &APPROVED PRIOR TO PLASTERING OR FILING WITH WATER. SUCH PERMANENT BARRIER SHALL BE IN ACCORDANCE WITH THE 2010 FLORIDA BUILDING CODE SECT R4101 17.1

45-EXISTING STRUCTURES
CONTRACTOR MUST APPLY PROPER MEANS AND METHODS OF CONSTRUCTION TO PROTECT ALL EXISTING STRUCTURES UNLESS OTHERWISE NOTED, THE DESIGN ENGINEER HAS NOT BEEN ENGAGED TO CONDUCT, NOR HAS HE CONDUCTED ANY FIELD TESTS EVALUATIONS OR SITE VISITS WITH RESPECT TO CONDITIONS AS THEY MAY EXIST AT THE SITE. THEREFORE, THE DESIGN ENGINEER IS NOT RESPONSIBLE FOR, AND ASSUMES NOT LIABILITY FOR, EXISTING STRUCTURES INCLUDING THE CONDITION OF EXISTING SEAWALLS AND APPLICABILITY FOR EXCAVATION IN ITS PROXIMITY SHOULD ANY EXISTING STRUCTURE BE ENCOUNTERED STOP CONSTRUCTION AND IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND BUILDING OFFICIAL PRIOR TO PROCEEDING THIS INCLUDES BUT IS NOT LIMITED TO ENCOUNTERING THE FOLLOWING
- *WALL ANCHOR RODS
- *FOUNDATIONS OF SEAWALLS BUILDINGS, POWER POLES
- *BURIED VAULTS AND DRAINAGE STRUCTURES, AND OTHER BELOW GROUND STRUCTURES

SHOULD THE CONTRACTOR COMPROMISE THE INTEGRITY OF A SEAWALL, THE CONTRACTOR SHALL IMMEDIATELY ENGAGE IN CORRECTIVE MEASURES AS DIRECTED BY A LICENSED QUALIFIED SEAWALL CONTRACTING SPECIALIST THESE PROCEDURES SHALL BE IN FULL COMPLIANCE WITH ALL RECOMMENDATIONS MADE BY THE DESIGN ENGINEER AND LOCAL BUILDING OFFICIAL. THE CONTRACTOR SHALL SECURE THE STRUCTURE WITHIN 48 HOURS BASED ON SAID RECOMMENDATIONS, TO INCLUDE BUT NOT LIMITED TO, THE EMERGENCY INSTALLATION OF HELICAL PILES OR BATTER PILES.



SHEET 4 OF 4

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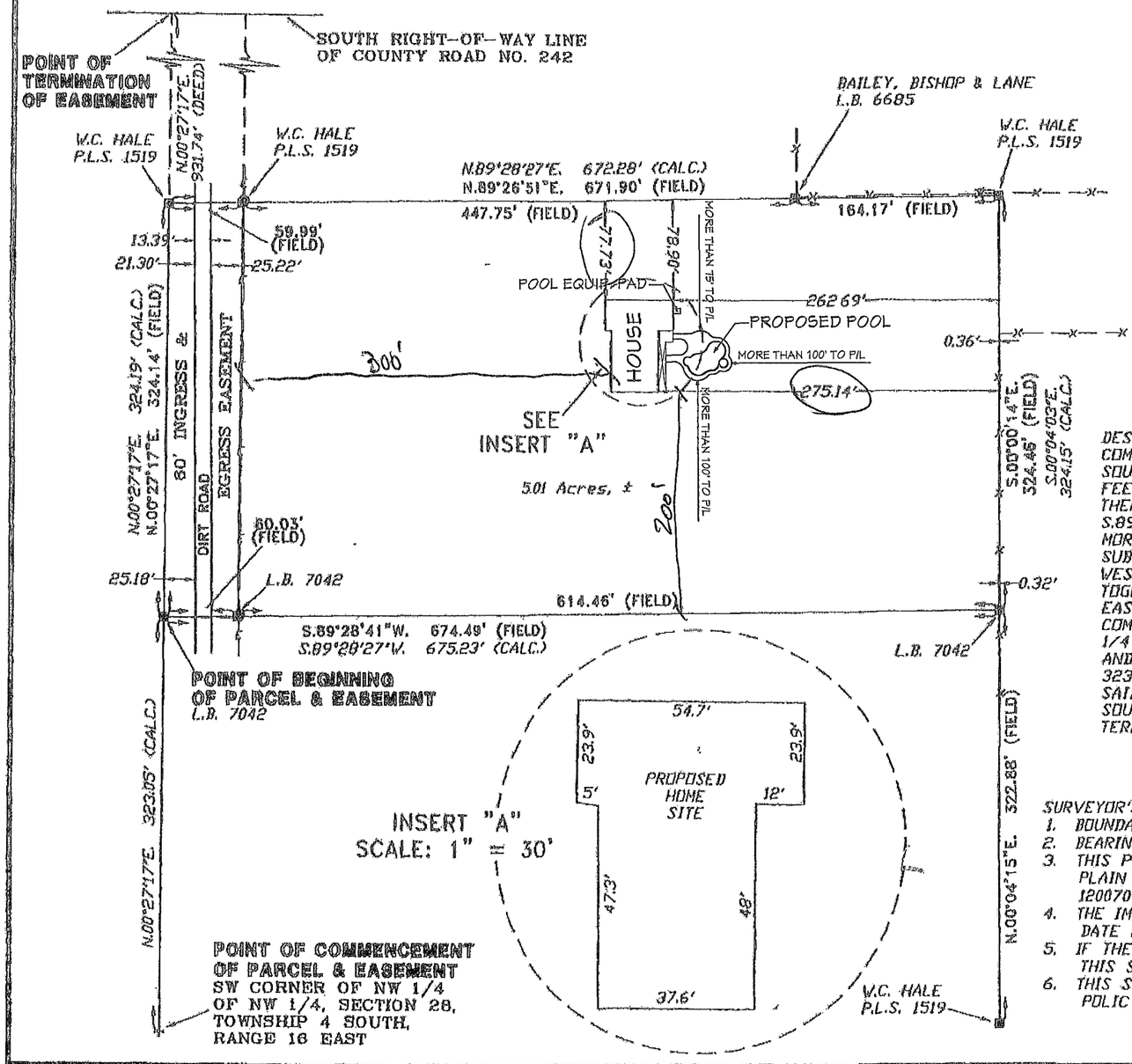
4-11-2014

BOUNDARY SURVEY IN SECTION 28, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA.



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SCALE: 1" = 100'

SYMBOL LEGEND:

- 4"X4" CONCRETE MONUMENT FOUND
- 4"X4" CONCRETE MONUMENT SET
- IRON PIPE FOUND
- IRON PIN AND CAP SET
- POWER POLE
- WATER METER
- CENTERLINE
- WELL
- SATELLITE DISH
- TELEPHONE BOX
- ELECTRIC LINES
- WIRE FENCE
- CHAIN LINK FENCE
- WOODEN FENCE

DESCRIPTION:
COMMENCE AT THE SW CORNER OF NW 1/4 OF NW 1/4 OF SECTION 28, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN N.00°27'17"E., 323.05 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N.00°27'17"E., 324.19 FEET; THENCE N.89°28'27"E., 672.28 FEET; THENCE S.00°04'03"E., 324.15 FEET; S.89°28'27"W., 675.23 FEET TO THE POINT OF BEGINNING. CONTAINING 5.01 ACRES, MORE OR LESS.
SUBJECT TO AN EASEMENT FOR INGRESS AND EGRESS PURPOSES ACROSS THE WESTERLY 60 FEET THEREOF.
TOGETHER WITH AN EASEMENT FOR INGRESS AND EGRESS PURPOSES, BEING 60 FEET EAST OF AND ADJACENT TO THE FOLLOWING DESCRIBED LINE:
COMMENCE AT THE SOUTHWEST CORNER OF THE NORTHWEST 1/4 OF THE NORTHWEST 1/4 OF SECTION 28, TOWNSHIP 4 SOUTH, RANGE 16 EAST, COLUMBIA COUNTY, FLORIDA AND RUN N.00°27'17"E., ALONG THE WEST LINE OF SAID SECTION 28 A DISTANCE OF 323.05 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N.00°27'17"E., ALONG SAID WEST LINE OF SECTION 28, A DISTANCE OF 931.74 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF COUNTY ROAD 242, SAOD POINT ALSO BEING THE TERMINAL POINT OF HEREIN DESCRIBED LINE AND EASEMENT.

SURVEYOR'S NOTES:
1. BOUNDARY BASED ON MONUMENTATION FOUND.
2. BEARINGS ARE BASED ON A DEED OF RECORD AS PROVIDED THIS OFFICE.
3. THIS PARCEL IS IN ZONE "X" AND IS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN AS PER FLOOD RATE MAP, DATED 6 JANUARY, 1988 COMMUNITY PANEL NUMBER 120070 0175 B. HOWEVER, THE FLOOD INSURANCE RATE MAPS ARE SUBJECT TO CHANGE.
4. THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
5. IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
6. THIS SURVEY WAS COMPLETED WITHOUT THE BENEFIT OF A TITLE COMMITMENT OR A TITLE POLICY.

REVISED ON 04/18/08.

CERTIFIED TO:

KRISTY BAKER
FIRST FEDERAL BANK OF FLORIDA

FIELD BOOK: 305 PAGE(S): 28

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY RESPONSIBLE CHARGE AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

04/14/08 FIELD SURVEY DATE
04/15/08 DRAWING DATE
L. SCOTT BRITT, P.S.M. CERTIFICATION # 5757

NOTE: UNLESS IT BEARS THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER THIS DRAWING, SKETCH, PLAT OR MAP IS FOR INFORMATIONAL PURPOSES ONLY AND IS NOT VALID.

BRITT SURVEYING & ASSOCIATES, INC.
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WORK ORDER # L-19237