



FOR USE IN: CITY OF GAINESVILLE

BY: FUN-STATE POOLS, INC.

TYPICAL PLAN & SECTIONS
FOR RESIDENTIAL POOL/SPA

REV. DATE

DESCRIPTION

CHK BY

MCM

KE-RSTD

3990 SR 64 E
Bradenton, FL 34208
Office: 941-749-0311
C.A. 27189

KIMES
ENGINEERING

©2020 Kimes Engineering and Management Services, Inc.
This drawing is the property of Kimes Engineering and Management Services, Inc. and is not to be reproduced or used in whole or in part without the express written consent of Kimes Engineering and Management Services, Inc. It is to be returned upon request.

REV. DATE

DESCRIPTION

CHK BY

MCM

KE-RSTD

- NOTES:**
- THIS PLAN IS SCHEMATIC & PIPING SHALL BE CONNECTED TO PROVIDE A FUNCTIONING SYSTEM
 - POOL PIPING SHALL HOLD A STATIC WATER OR AIR PRESSURE NOT LESS THAN 35 PSI FOR 15 MINUTES, PER R4501.12.1
 - POOLS SHALL HAVE PUMPS SELECTED TO PROVIDE MINIMUM 12 HR. TURNOVER & DETERMINE PIPE SIZING FROM ATTACHED ANSI WORK SHEETS
 - SPA PIPING DETERMINED FROM ATTACHED ANSI WORK SHEETS
 - ALL CHUTE DRAINS SHALL HAVE A MINIMUM SEPARATION OF 3 FT. UNLESS ONE IS LOCATED ON A VERTICAL WALL OR A SINGLE UNBLOCKABLE DRAIN IS USED
 - ALL SUCTION COVERS SHALL MEET ANS/APSPIC-16 2017
 - ALL PIPING SHALL BE NSF-PW APPROVED & MEET THE REQUIREMENTS OF 7TH ED. (2020) FBC
 - ELECTRICAL EQUIPMENT, WIRING, & INSTALLATION SHALL CONFORM TO THE NFPA 70-2017 EDITION
 - BONDING OF POOL STEEL & LIGHT TO FOOTING STEEL SHALL BE CONTINUED TO & INCLUDE ALL PUMPS & HEATERS. TEMPORARY FENCING SHALL BE PERMANENTLY REMOVED PRIOR TO PERMANENTLY CHILD SAFETY FEATURES ARE INSTALLED
 - THERE SHALL BE A PASSING ELECTRICAL & CHILD SAFETY FINAL INSPECTION PRIOR TO FILLING THE POOL OR SPA WITH WATER
 - POOL SHALL MEET THE APPLICABLE CRITERIA IN ANS/APSP 3.4, 5.6, 7 & 15 STANDARDS ADOPTED IN 7TH ED. (2020) FBC
 - REGARDLESS OF THE CRITERIA HERE, THE PROJECT SHALL COMPLY WITH ALL SECTIONS OF THE 7TH ED. (2020) FBC - RESIDENTIAL BUILDING, MECHANICAL, PLUMBING & GAS CODES, AS APPLICABLE RESPECTIVELY & AMENDED

FOR USE IN: CITY OF GAINESVILLE

BY: FUN-STATE POOLS, INC.

TYPICAL PLAN & SECTIONS
FOR RESIDENTIAL POOL/SPA

REV. DATE

DESCRIPTION

CHK BY

MCM

KE-RSTD

3990 SR 64 E
Bradenton, FL 34208
Office: 941-749-0311
C.A. 27189

KIMES
ENGINEERING

©2020 Kimes Engineering and Management Services, Inc.
This drawing is the property of Kimes Engineering and Management Services, Inc. and is not to be reproduced or used in whole or in part without the express written consent of Kimes Engineering and Management Services, Inc. It is to be returned upon request.

REV. DATE

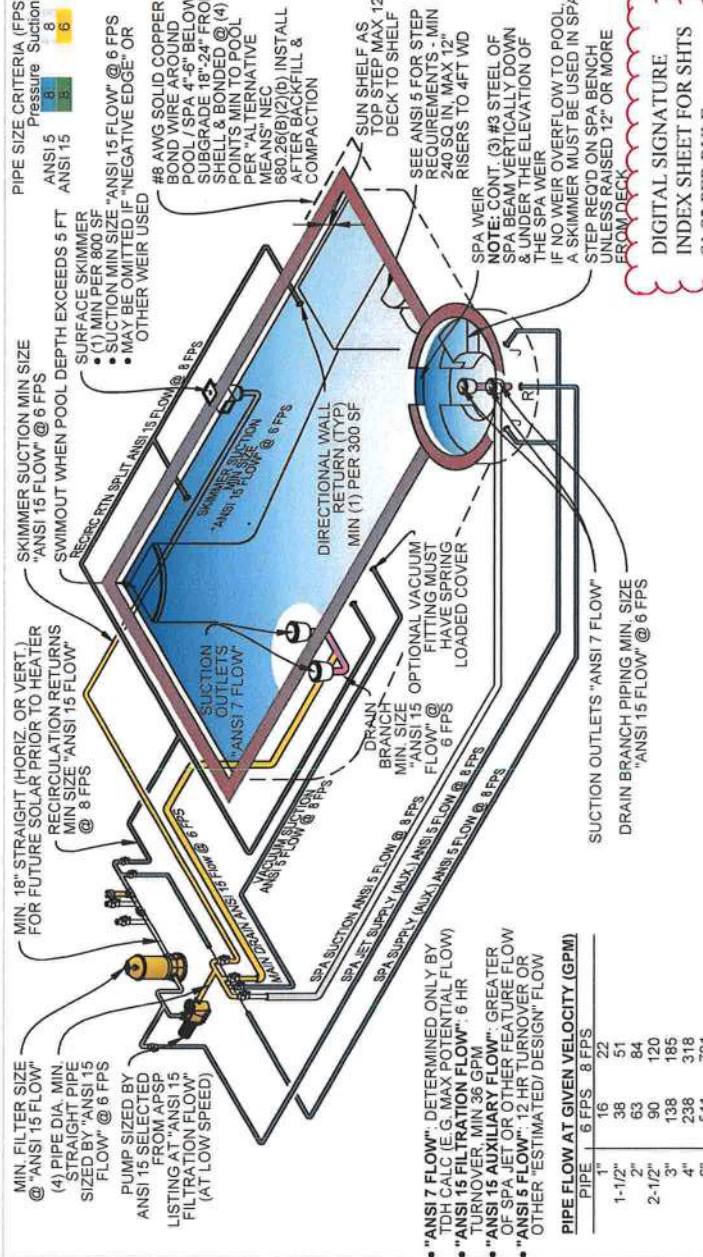
DESCRIPTION

CHK BY

MCM

KE-RSTD

- NOTE TO REVIEWER:**
- DETAILED TDH CALCULATIONS ARE REQUIRED TO DETERMINE ANSI 7-SUCTION ENTRAPMENT COMPLIANCE
- SEE INFORMATION ATTACHED TO THIS PERMIT PACKAGE FOR SITE SPECIFIC DETAILS SHOWING ANS 7 & 15 AND FBC COMPLIANCE



1

TYPICAL RESIDENTIAL POOL / SPA SCHEMATIC PLAN
SCALE: N.T.S.

FBC NO LONGER REQUIRES EXCAVATIONS OUT OF THE "ANGLE OF REPOSE PLUS 1 FT". THE CURRENT REQUIREMENT IN 7TH ED (2020) FBC, SECTION 1804.1 STATES THAT "EXCAVATIONS SHALL NOT REMOVE VERTICAL OR LATERAL SUPPORT FROM ANY FOUNDATION." THEREFORE THE FOLLOWING IS REQUIRED:

- WHEN THE POOL DECK DISTANCE IS EQUAL TO OR GREATER THAN WATER DEPTH, NO MITIGATION OF THE SHELL STRUCTURE IS REQUIRED, AND NO SHORING OR FOUNDATION SUPPORT INITIALLY REQUIRED.
- WHEN THE POOL DECK DISTANCE IS LESS THAN THE WATER DEPTH, THE ENGINEER SHALL PROVIDE A MITIGATION SPECIFICATION, EITHER TO PROTECT THE FOUNDATION DURING EXCAVATION OR STRENGTHEN THE SHELL FROM STRUCTURE LOADS.
- IF DURING EXCAVATION, SOIL CONDITIONS APPEAR TO LEAD TO LOSS OF FOUNDATION SUPPORT, THE CONTRACTOR SHALL CEASE EXCAVATION AND CONTACT THE ENGINEER FOR MITIGATION SPECIFICATIONS.
- IF AFTER EXCAVATION THE CONTRACTOR OR INSPECTOR FIND A LOSS OR THREATENED LOSS OF SOIL SUPPORT AT THE FOUNDATION, CONTACT THE ENGINEER FOR A MITIGATION SPECIFICATION.

2

"ANGLE OF REPOSE" OR SEE CONTRACTOR PLAN
PROXIMITY TO STRUCTURE
SCALE: N.T.S.

FOR USE IN: CITY OF GAINESVILLE

BY: FUN-STATE POOLS, INC.

TYPICAL PLAN & SECTIONS
FOR RESIDENTIAL POOL/SPA

REV. DATE

DESCRIPTION

CHK BY

MCM

KE-RSTD

3990 SR 64 E
Bradenton, FL 34208
Office: 941-749-0311
C.A. 27189

KIMES
ENGINEERING

©2020 Kimes Engineering and Management Services, Inc.
This drawing is the property of Kimes Engineering and Management Services, Inc. and is not to be reproduced or used in whole or in part without the express written consent of Kimes Engineering and Management Services, Inc. It is to be returned upon request.

REV. DATE

DESCRIPTION

CHK BY

MCM

KE-RSTD

FOR USE IN: CITY OF GAINESVILLE

BY: FUN-STATE POOLS, INC.

TYPICAL PLAN & SECTIONS
FOR RESIDENTIAL POOL/SPA

REV. DATE

DESCRIPTION

CHK BY

MCM

KE-RSTD

3990 SR 64 E
Bradenton, FL 34208
Office: 941-749-0311
C.A. 27189

KIMES
ENGINEERING

©2020 Kimes Engineering and Management Services, Inc.
This drawing is the property of Kimes Engineering and Management Services, Inc. and is not to be reproduced or used in whole or in part without the express written consent of Kimes Engineering and Management Services, Inc. It is to be returned upon request.

REV. DATE

DESCRIPTION

CHK BY

MCM

KE-RSTD

FOR USE IN: CITY OF GAINESVILLE

BY: FUN-STATE POOLS, INC.

TYPICAL PLAN & SECTIONS
FOR RESIDENTIAL POOL/SPA

REV. DATE

DESCRIPTION

CHK BY

MCM

KE-RSTD

3990 SR 64 E
Bradenton, FL 34208
Office: 941-749-0311
C.A. 27189

KIMES
ENGINEERING

©2020 Kimes Engineering and Management Services, Inc.
This drawing is the property of Kimes Engineering and Management Services, Inc. and is not to be reproduced or used in whole or in part without the express written consent of Kimes Engineering and Management Services, Inc. It is to be returned upon request.

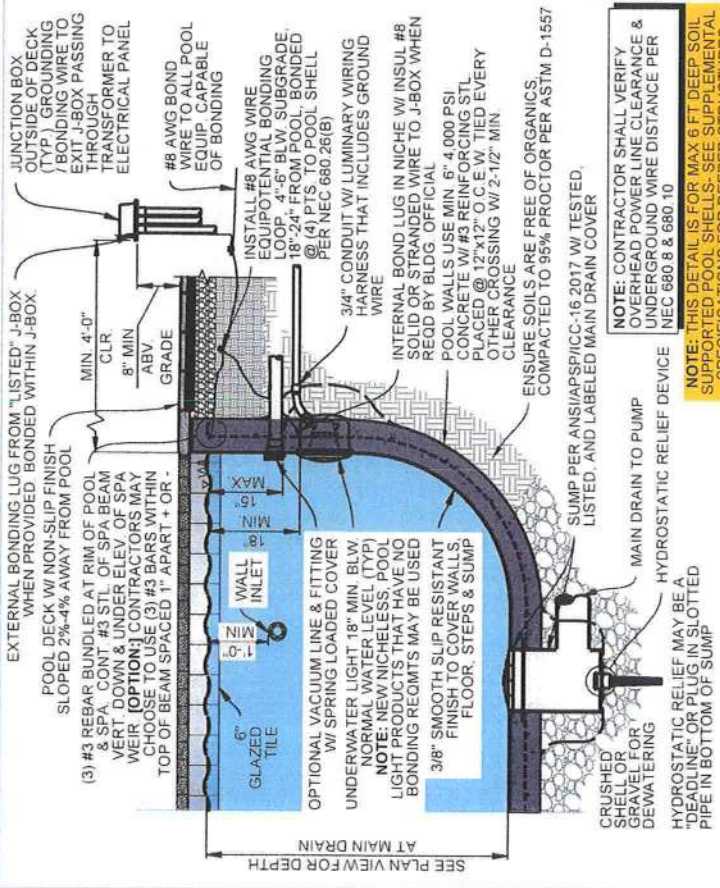
REV. DATE

DESCRIPTION

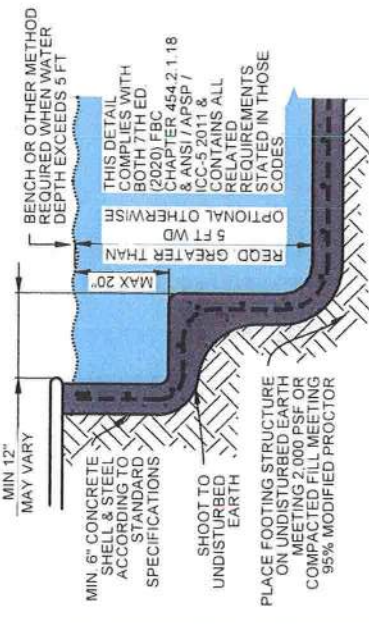
CHK BY

MCM

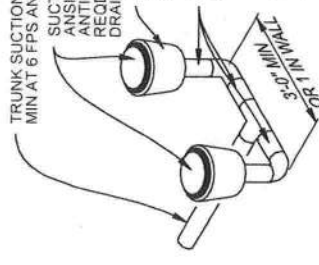
KE-RSTD



1 POOL DEEP END SECTION
SCALE: N.T.S.

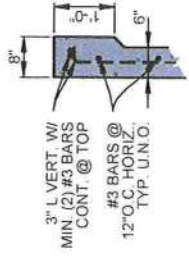


2 POOL BENCH SECTION
SCALE: N.T.S.



3 BRANCH PIPING
SCALE: N.T.S.

2 FIELD BUILT SUMP
SCALE: N.T.S.



4 POOL BEAM
8"x12" OPTION
SCALE: N.T.S.

NOTE: THIS DETAIL IS FOR MAX 6 FT DEEP SOIL SUPPORTED POOL SHELLS. SEE SUPPLEMENTAL SPECIFICATIONS FOR DEEPER STRUCTURES, OR LOAD SURCHARGE STRUCTURES, OR APPURTENANT STRUCTURES.

COMPLIES WITH
7TH ED. (2020) FBC,
ALL VOLUMES



NOTES:
• APPROVED PRODUCT SPECIFICATION MAY DIFFER FROM FIELD BUILT SUMPS SHOWN ON THIS PAGE

- ADDITIONAL STRUCTURAL NOTES:**
- USE MINIMUM ASTM A615 GRADE 40 STEEL
 - LAP #3 BARS MINIMUM 15"
 - LAP #5 BARS MINIMUM 25"
 - 6" SHELL THICKNESS AND 2-1/2" CONCRETE COVERAGE ARE MINIMUMS
 - USE 4,000 PSI CONCRETE
 - CONTRACTOR / OWNER REQUIRED TO PLACE ON UNDISTURBED AND DE-WATERED EARTH THAT CAN MEET 7,000 PSF BEARING CAPACITY.
 - WHEN BRIDGE DEPT. QUESTIONABLE ENCOUNTERED OR INDICATED AT THE WORK-SITE PRIOR / DURING CONSTRUCTION SHALL CONDUCT BORING(S) IN THE AREA OF THE POOL TO CONFIRM SOIL BEARING CAPACITY, CLEAR OF BURIED DEBRIS, & VERIFYING GROUND WATER LEVEL
 - ALL MODIFIED SOILS & EARTH FILL UNDER PERSPECTIVE POOL AREA SHALL MEET A SOIL DENSITY AND COMPACTION MINIMUM OF 95% MODIFIED PROCTOR WITHOUT SETTLEMENT.

- DRAIN COVERS & SUMPS a.k.a. SUCTION OUTLET FITTING ANSIPSP/ICC-16 2017**
- FOLLOW THE PRODUCT SPECIFICATIONS FOR MIN./MAX. SUMP DIMENSIONS, DRAIN COVER/GRATE, AND FRAME FASTENING MEETING MFR'S SOFA CERTIFICATION
 - **FASTENERS - POWER TOOLS TO INSTALL**
 - FIELD MODIFICATIONS TO ANY SOFA NOT AUTHORIZED BY MFR INSTALLATION CERTIFICATION SHALL VOID THE SOFA TO SUMP FRAME AFTER INSTALLATION
 - SOFA COMPONENTS HELD IN PLACE BY INTERFERING WITH THE POOL SHALL BE FREE OF DETEIORATION AND VOIDS

SEE DIGITAL
SIGNATURE ON
INDEX SHT SI

KIMES ENGINEERING
3990 SR 64 E.
Bradenton, FL 34208
Office: 941-749-0311
C.A. 27189

REV. DATE DESCRIPTION
KE_RSTD DWG BY: MCM
CMB BY: JKK
DRAWING VERSION: 21-Dec-20

This drawing is the property of Kimes Engineering and Management Services, Inc. & is not to be reproduced or copied in whole or in part, in any form or by any means, without the written permission of Kimes Engineering and Management Services, Inc. It is to be returned upon request.

FOR USE IN CITY OF GAINESVILLE
BY: FUN-STATE POOLS, INC.
TYPICAL SECTIONS
FOR RESIDENTIAL POOL/SPA

Barrs Residence

2772 SW CR 18
Ft. White FL 32038

- ① 18'6" x 35' pool / 3'6"-8' depth
- ② 1 - C.M.P. 25506-320-000 main drain
- ③ Sta Rite Intellipro VS4SVRS #013002 P-MP
- ④ Sta Rite Plm filter
- ⑤ 1 - Pentair 56 pool light
- ⑥ 1 - Bubbler
- ⑦ Pentair IntelliColor Salt System
- ⑧ No automation

