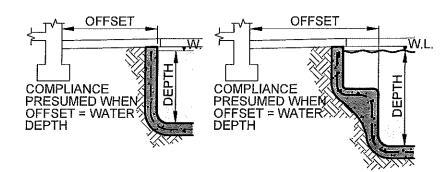


TYPICAL RESIDENTIAL POOL / SPA SCHEMATIC PLAN

SCALE: N.T.S.

721

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:



"ANGLE OF REPOSE" OR SEE CONTRACTOR PLAN

- 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.
- 4. 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.

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 & MAXIMUM 6 HOUR TURNOVER.

DETERMINE PIPE SIZING FROM ATTACHED ANSI WORK SHEETS.

 SPA PIPING DETERMINED FROM ATTACHED WORK SHEETS.

 DUAL MAIN 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

ANSI/APSP/ICC-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 NATIONAL ELECTRICAL CODE 2017 EDITION.

 BONDING OF POOL STEEL & LIGHT TO FOOTING STEEL SHALL BE CONTINUED TO & INCLUDE ALL PUMPS & HEATERS.

 TEMPORARY FENCING SHALL BE INSTALLED & MAINTAINED UNTIL PERMANENT 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 ANSI/APSP 3,4,5,6, 7 & 15 STANDARDS ADOPTED IN 7TH ED. (2020)

• REGARDLESS OF THE CRITERIA HERE, THE PROJECT SHALL COMPLY WITH ALL SECTIONS OF THE 7TH ED. (2020) FBC -RESIDENTIAL, BUILDING, MÈCHANICAL, PLUMBING & GAS CODES, AS APPLICABLE RESPECTIVELY & AMENDED.

SEE INFORMATION ATTACHED TO THIS PERMIT PACKAGE FOR SITE SPECIFIC DETAILS SHOWING ANSI 7 & 15 AND FBC COMPLIANCE

NOTE TO REVIEWER: DETAILED TDH CALCULATIONS ARE **REQUIRED TO DETERMINE ANSI 7-**SUCTION ENTRAPMENT **COMPLIANCE**

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

Francisco STONAL ENGINEER

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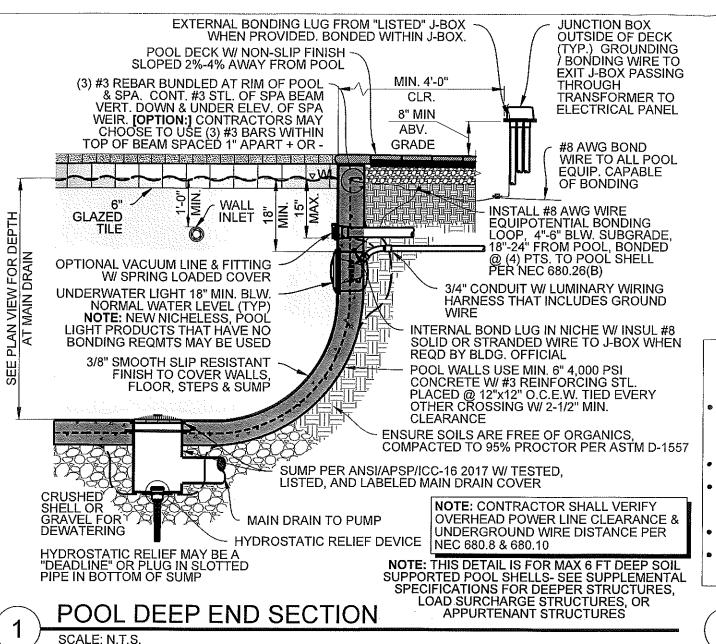
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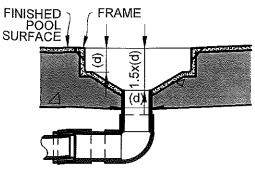
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SHEET 1 OF 2

PROXIMITY TO STRUCTURE

SCALE: N.T.S.





(d) 1.5x(d)

SPECIFIED PVC PIPE SIZE MIN. SUMP DEPTH MIN. LEDGE DEPTH

FOR FIELD BUILT SUMPS SEE PRODUCT INSTALLATION INSTRUCTIONS

DRAIN COVERS & SUMPS a.k.a. SUCTION OUTLET FITTING

ASSEMBLIES (SOFA)

ANSI/APSP/ICC-16 2017

FOLLOW THE PRODUCT SPECIFICATIONS
AND/OR INSTALLATION INSTRUCTIONS
FOR MIN./MAX. SUMP DIMENSIONS, DRAIN
COVER/GRATE, AND FRAME FASTENING
MEETING MFGR'S SOFA CERTIFICATION,
DO NOT USE POWER TOOLS TO INSTALL
FASTENERS

FIELD MODIFICATIONS TO ANY SOFA NOT AUTHORIZED BY MFGR INSTALLATION INSTRUCTIONS SHALL VOID THE SOFA

CERTIFICATION
HAND CHECK COVER/GRATE SNUGNESS
TO SUMP/FRAME AFTER INSTALLATION

SOFA COMPONENTS HELD IN PLACE BY INTERIOR FINISH OF THE POOL SHALL BE FREE OF DETERIORATION AND VOIDS

SCALE: N.T.S.



NOTES:

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

ADDITIONAL STRUCTURAL NOTES:

 USE MINIMUM ASTM A815 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:
 CONTACT ENGINEER IF POOL NOT

PLACED ON UNDISTURBED AND DE-WATERED EARTH THAT CAN MEET 2,000 PSF BEARING CAPACITY. WHEN BURIED DEBRIS IS

ENCOUNTERED OR QUESTIONABLE CONDITIONS ARE INDICATED AT THE WORK SITE PRIOR / DURING CONSTRUCTION, A SUBSURFACE CONSULTANT 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

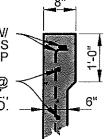
UNDER PERSPECTIVE POOL AREA SHALL MEET A SOIL DENSITY AND **COMPACTION MINIMUM OF 95%** MODIFIED PROCTOR WITHOUT

SETTLEMENT.

3" L VERT. W/ CONT. @ TOP

FIELD BUILT SUMP MIN. (2) #3 BARS

> #3 BARS @ 12"O.C. HORIZ., TYP. U.N.O.



POOL BEAM

SCALE: N.T.S.

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

8"x12" OPTION

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

FOR USE IN: VARIOUS JURISDICTIONS

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TYPICAL SECTIONS RESIDENTIAL POOL/SPA FOR

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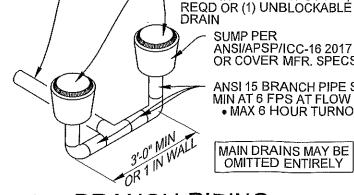
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SHEET 2 OF 2

MIN 12" MAY VARY BENCH OR OTHER METHOD REQUIRED WHEN WATER **DEPTH EXCEEDS 5 FT** MIN. 6" CONCRETE THAN SHELL & STEEL THIS DETAIL ACCORDING TO **COMPLIES WITH** STANDARD -BOTH 7TH ED. **SPECIFICATIONS** (2020) FBC CHAPTER 454.2.1.18 & ANSI / APSP / ICC-5 2011 & SHOOT TO 5 F. OPTIONAL **CONTAINS ALL UNDISTURBED** RELATED EARTH REQD. REQUIREMENTS STATED IN THOSE PLACE FOOTING STRUCTURE CODES. ON UNDISTURBED EARTH MEETING 2,000 PSF OR COMPACTED FILL MEETING 95% MODIFIED PROCTOR

BENCH SECTION

SCALE: N.T.S.



• MAX 6 HOUR TURNOVER MAIN DRAINS MAY BE OMITTED ENTIRELY

ANSI/APSP/ICC-16 2017 OR COVER MFR. SPECS

ANSI 15 BRANCH PIPE SIZE

MIN AT 6 FPS AT FLOW BY:

BRANCH PIPING

SUCTION OUTLETS W/

ANSI/APSP/ICC-16 2017

SUMP PER

ANTI-ENTRAPMENT COVER, (2)

TRUNK SUCTION PIPE SIZE MIN AT 6 FPS ANSI 15 FLOW

SCALE: N.T.S.