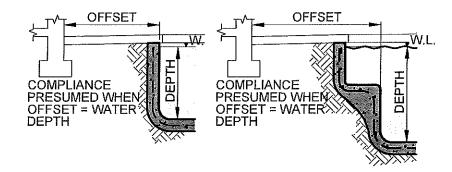
TYPICAL RESIDENTIAL POOL / SPA SCHEMATIC PLAN

SCALE: N.T.S.

ere of Floris FBC NO LONGER REQUIRES EXCAVATIONS OUT OF THE "ANGLE OF REPOSE PLUS 1 FT". THE CURF 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.
- 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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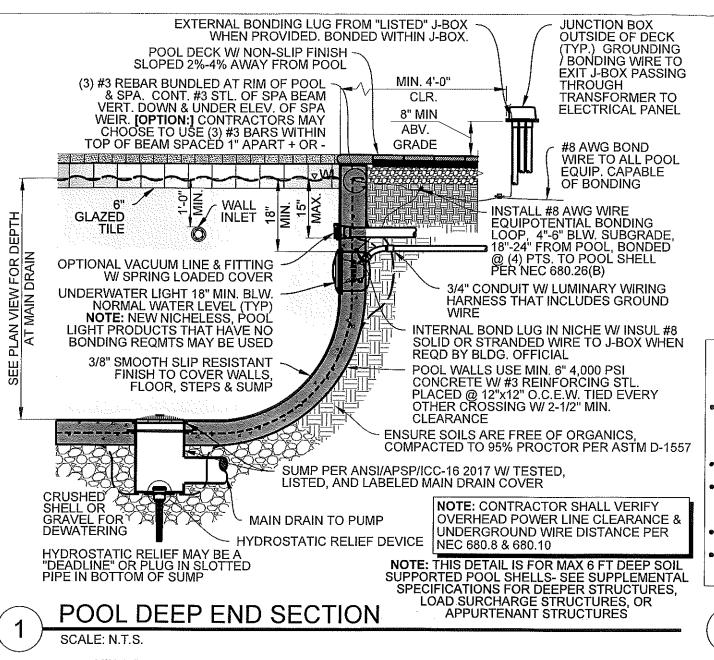
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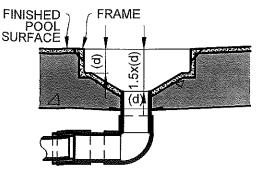
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SHEET 1 OF 2

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

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

SCALE: N.T.S.

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

FIELD BUILT SUMP



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/ MIN. (2) #3 BARS CONT. @ TOP #3 BARS @ 12"O.C. HORIZ.,

**POOL BEAM** 8"x12" OPTION

SCALE: N.T.S.

SUPPORTED POOL SHELLS- SEE SUPPLEMENTAL SPECIFICATIONS FOR DEEPER STRUCTURES. LOAD SURCHARGE STRUCTURES, OR APPURTENANT STRUCTURES

TYP. U.N.O.

**NOTE:** THIS DETAIL IS FOR MAX 6 FT DEEP SOIL

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



FOR USE IN: VARIOUS JURISDICTIONS

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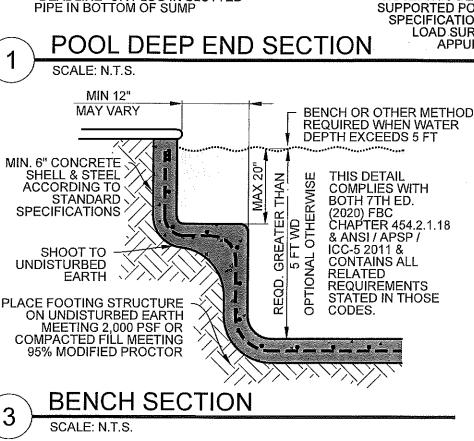
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SHEET 2 OF 2



TRUNK SUCTION PIPE SIZE MIN AT 6 FPS ANSI 15 FLOW SUCTION OUTLETS W ANSI/APSP/ICC-16 2017 ANTI-ENTRAPMENT COVER, (2)

REQD OR (1) UNBLOCKABLE DRAIN SUMP PER ANSI/APSP/ICC-16 2017 OR COVER MFR. SPECS ANSI 15 BRANCH PIPE SIZE

MIN AT 6 FPS AT FLOW BY:

• MAX 6 HOUR TURNOVER

MAIN DRAINS MAY BE OMITTED ENTIRELY

**BRANCH PIPING** 

SCALE: N.T.S.