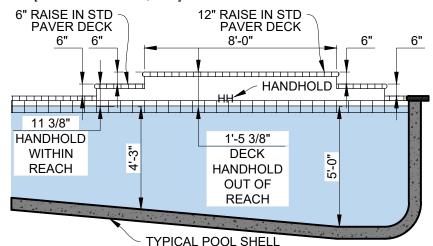
RESIDENTIAL POOL AND SPA PLAN REVIEW CHECKLIST FOR CRITICAL SAFETY CODE REQMTS

HANDHOLDS REQUIRED

HANDHOLD(S) PROVIDED WHEN REQUIRED AT RAISED DECK AREAS MORE THAN 12 INCH FROM WATER LINE AND WATER DEPTH MORE THAN 4 FEET FOR LENGTH OF 8 FEET. [2011 ANSI/APSP-5, 17.1]



ON PAVER COPING 6" A 6" RISE STILL HAS HANDHOLD

> **ON CONCRETE** OVER POUR MORE **THAN 5" RISE IS OUT OF REACH** FOR HANDHOLD.

HANDHOLDS REQUIRED

SCALE: N.T.S.

WHEN POOL WATER CLOSER THAN 5 FT

WINDOWS, DOORS OR OTHER GLASS WITHIN 5 FT OF WATER'S EDGE: MUST HAVE MANUFACTURER'S DESIGNATION OF SAFETY GLAZING AND BE VISIBLY MARKED

ALL FIXED METAL PARTS WITHIN 5 FT HORIZONTAL OR 12 FT **VERTICAL- DOOR AND WINDOW FRAMES, CAGE AND FENCE** STRUCTURES, STATIONARY EQUIPMENT, METAL AWNINGS-SHALL BE BONDED UNLESS PERMANENT BARRIER

ENERGY CODE REQUIREMENTS RESTATED:

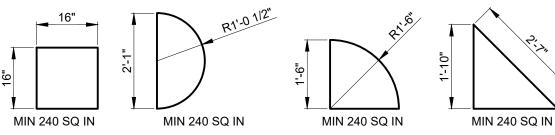
- GAS HEATER ELECTRICAL FEED SHALL BE THROUGH GFCI.
- 2. 4X PIPE DIAMETER STRAIGHT PIPE REQUIRED STRAIGHT INTO PUMP, 8" FOR 2" FITTING, 10" FOR 2.5" FITTING.
- MIN 18" STRAIGHT PIPE REQUIRED AFTER FILTER AN BEFORE HEATER, IF HEATER PROVIDED.

PLAN REVIEWER AND INSPECTOR MUST VERIFY SUCTION OUTLET COVER RATED FLOW GREATER THAN DETAILED TOH CALCULATION AT MAXIMUM PUMP SPEED OR AT LEAST EXCEEDS MAXIMUM FLOW OF PUMP CURVE AND PARTICULARLY VERIFIED FOR SPA SIDEWALL SUCTIONS AND RATED "WALL" FLOWS

(1) "Plans shall meet the mandatory energy consumption requirements of Section R403.10, FBC 7th Edition (2020) - Ene Conservation Code" (2)"Plans shall meet the Residential Swimming Barrier Requirements, in conformance with Section R4501.17, FBC 7th Edition (2020) - Residential (3) Plans shall comply with Sect R4501.FBC 7th Ed 2020-Residential

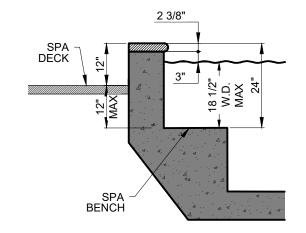
SPA STEP REQUIRED

UNLESS A SPA IS RAISED 12" OR MORE FROM DECK, A SPA STEP IS REQUIRED ON THE BENCH FOR THE MAXIMUM 12" FROM DECK TO ENTRY.[2014 ANSI/APSP-3, 5.6.1]



EXAMPLE 240 SQ IN STEP DIMENSIONS

SCALE: N.T.S.



12" RAISED SPA NO STEP

DIGITAL SIGNATURE INDEX SHEET FOR SHEETS 61G15-23.001(4)(b),F.A.C.

SCALE: N.T.S.

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S1 S2 S3 PER RULE

Plans

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for Code

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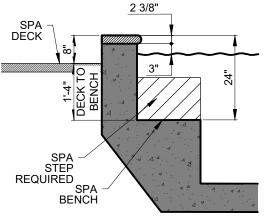
die of Flor

SUN SHELF AS FIRST STEP

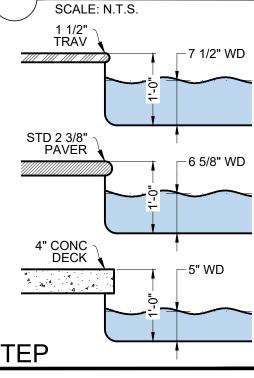
MAXIMUM 12" DECK TO SUN SHELF AS 1ST STEP, LIMITS WATER DEPTH UNLESS ADDED STEP ON SHELF. [2011 ANSI/APSP-5, 6.2.2]

SUN SHELF AS 1ST STEP

SCALE: N.T.S.



8" RAISED SPA STEP REQD.



CB, cn=James K Kin 111113199121 F04'00'8

SECTIONS L POOL/SPA TYPICAL PLAN & S FOR RESIDENTIAL

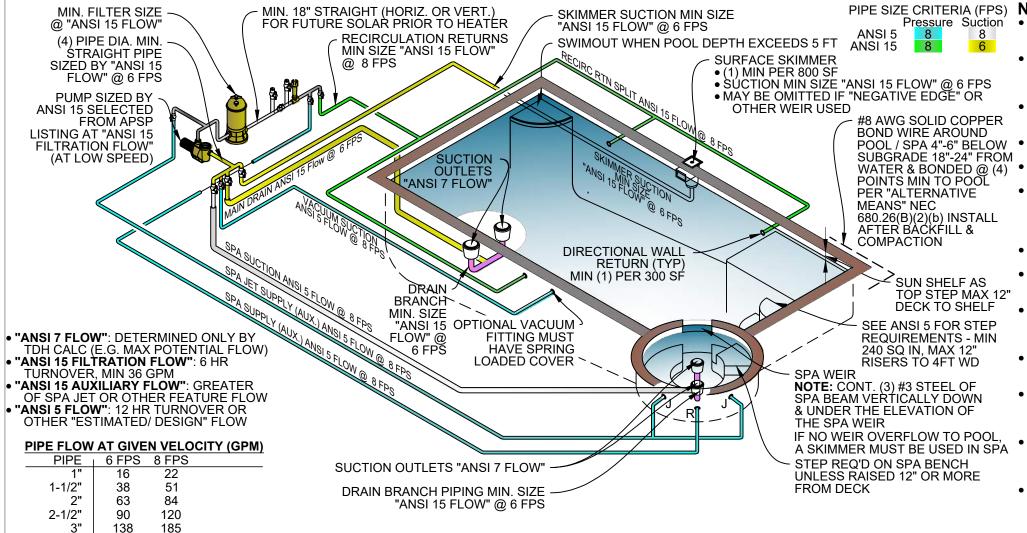
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SHEET 1 OF 3



TYPICAL RESIDENTIAL POOL / SPA SCHEMATIC PLAN

SCALE: N.T.S.

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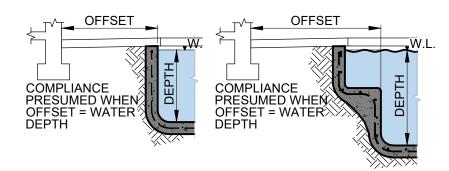
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6"

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.
- IF AFTER EXCAVATION THE CONTRACTOR FINDS 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

SEE DIGITAL SIGNATURE ON INDEX SHEET S1

DRAWING: 01-Jan-21

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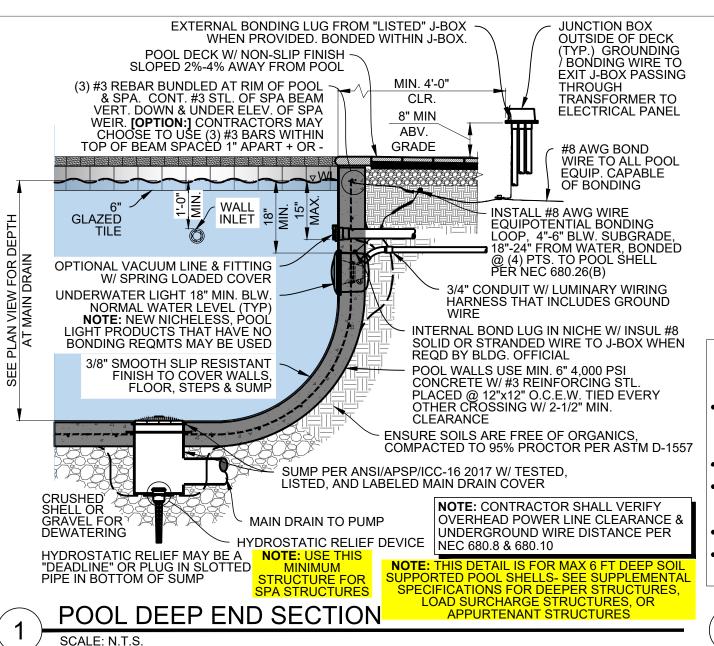
SECTIONS L POOL/SPA TYPICAL PLAN & S FOR RESIDENTIAL

SHEET

SHEET 2 OF 3

PROXIMITY TO STRUCTURE

SCALE: N.T.S.



BENCH OR OTHER METHOD REQUIRED WHEN WATER **DEPTH EXCEEDS 5 FT**

THIS DETAIL

(2020) FBC

COMPLIES WITH

CHAPTER 454.2.1.18

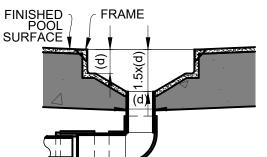
BOTH 7TH ED.

& ANSI / APSP /

CONTAINS ALL

ICC-5 2011 &

RELATED



(d) 1.5x(d)

(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.

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 MEETING

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



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., TYP. U.N.O.

FIELD BUILT SUMP

SCALE: N.T.S.

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, LOAD SURCHARGE STRUCTURES, OR APPURTENANT STRUCTURES

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

SEE DIGITAL SIGNATURE ON INDEX SHEET SI

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2-3-2022 REVISED

TYPICAL SECTIONS FOR RESIDENTIAL POOL/SPA

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SHEET 3 OF 3

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POOL

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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) UNBLOCKABLÉ 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 3'-0" MIN WALL MAIN DRAINS MAY BE **OMITTED ENTIRELY**

BRANCH PIPING

SCALE: N.T.S.

5 F1 OPTIONAL REQD. REQUIREMENTS STATED IN THOSE PLACE FOOTING STRUCTURE CODES MEETING 2,000 PSF OR

ON UNDISTURBED EARTH COMPACTED FILL MEETING 95% MODIFIED PROCTOR

MIN 12"

MAY VARY

MIN. 6" CONCRETE

SHELL & STEEL

ACCORDING TO

SPECIFICATIONS

SHOOT TO

EARTH

UNDISTURBED

STANDARD

BENCH SECTION

SCALE: N.T.S.