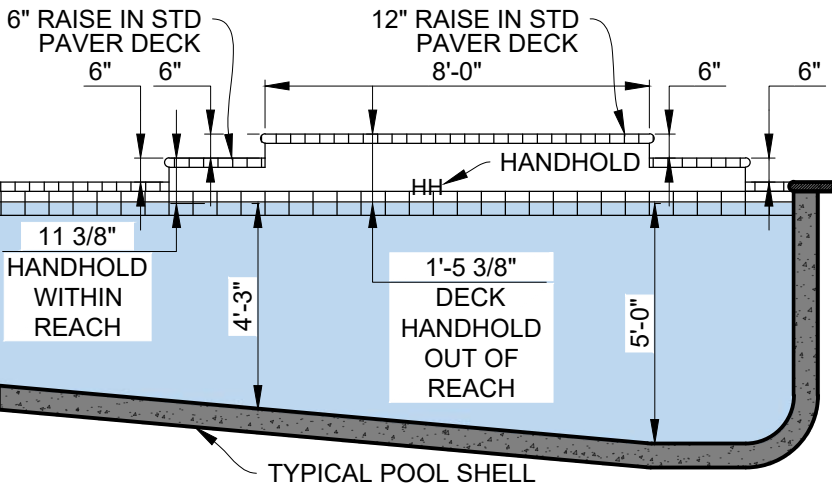


RESIDENTIAL POOL AND SPA PLAN REVIEW CHECKLIST FOR CRITICAL SAFETY CODE REQMTS

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]

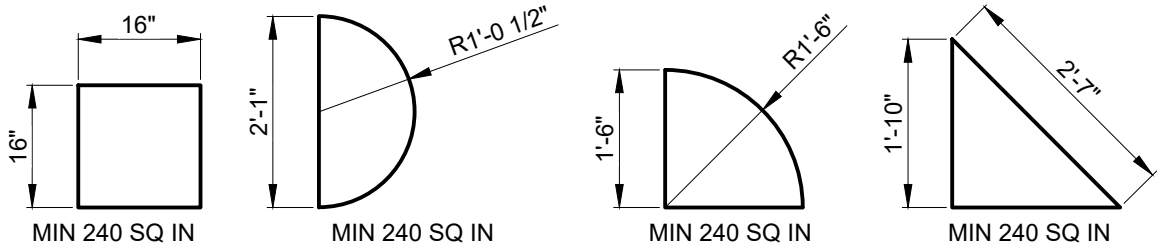


ON PAVER COPING A 6" RISE STILL HAS HANDHOLD

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

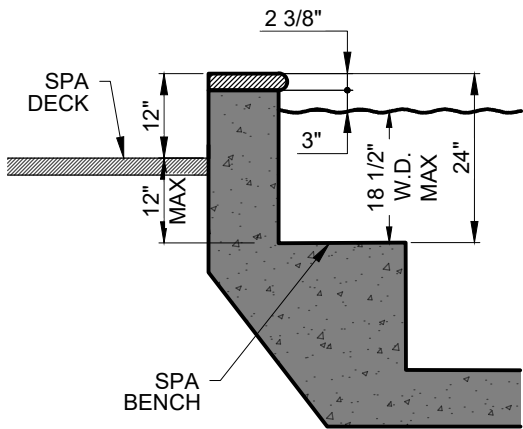
SPA STEP REQUIRED

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]



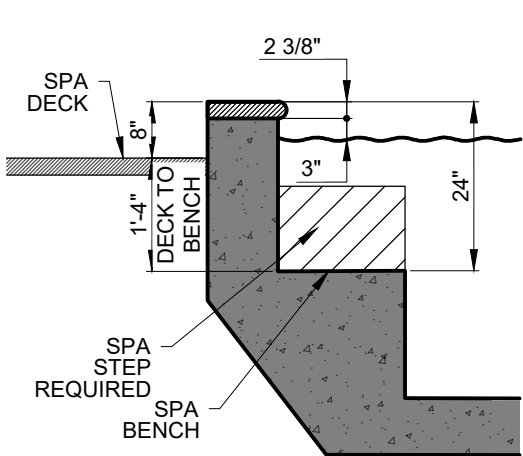
EXAMPLE 240 SQ IN STEP DIMENSIONS

SCALE: N.T.S.



12" RAISED SPA NO STEP

SCALE: N.T.S.



8" RAISED SPA STEP REQD.

SCALE: N.T.S.

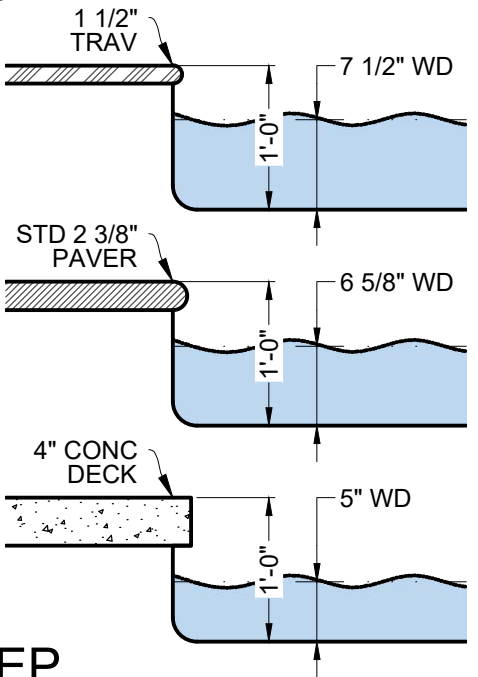
DIGITAL SIGNATURE INDEX SHEET FOR SHEETS S1 S2 S3 PER RULE 61G15-23.001(4)(b),F.A.C.

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.



This item has been electronically signed and sealed by James K. Kimes, PE on date & time stamp shown using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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REV. DATE DESCRIPTION
PROJ. NO.: DWG BY: CKD BY: JKK
KE_RSTD MCM 01-Jan-21 3-Feb-22
VERSION: 3-Feb-22

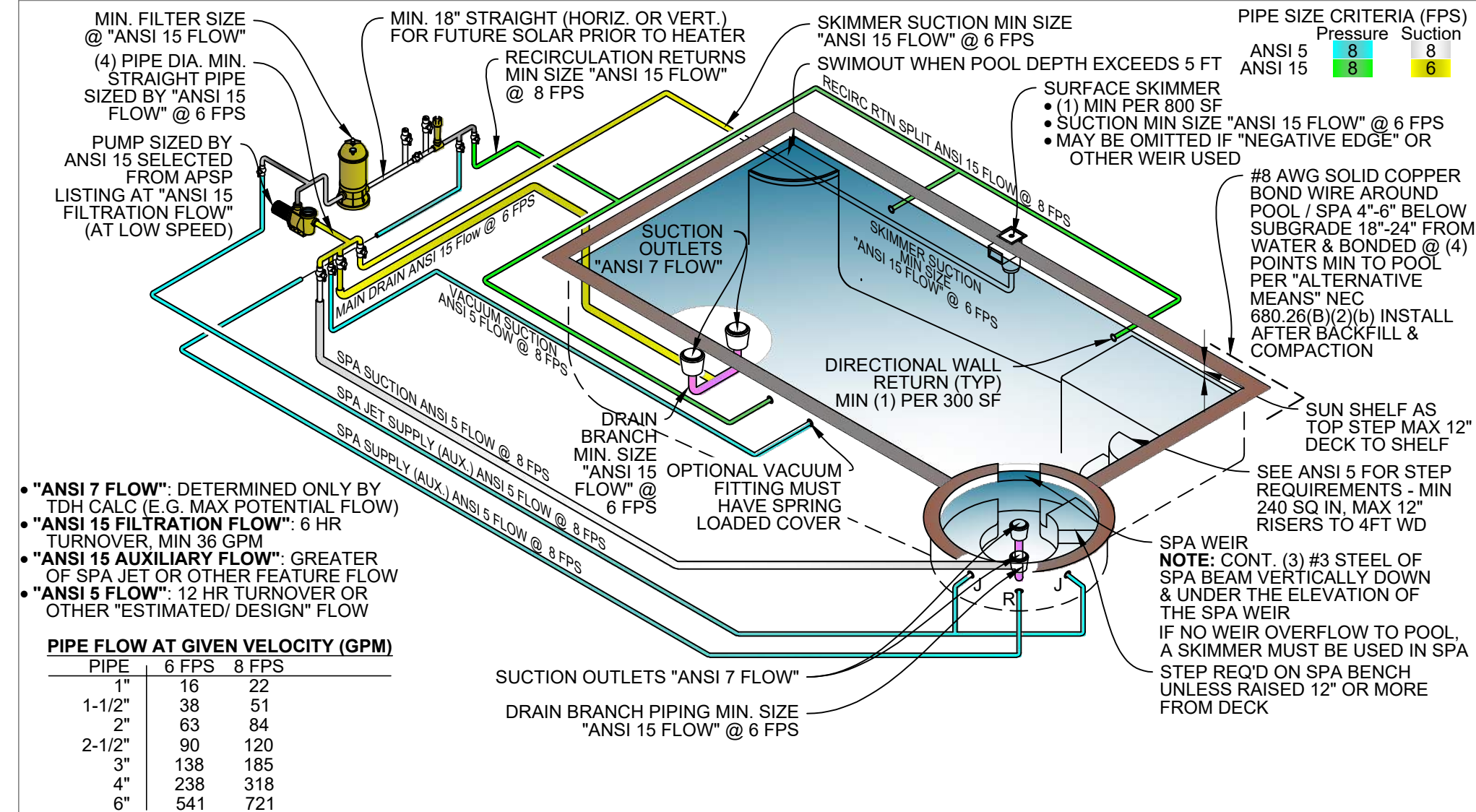
4221 SW COUNTY ROAD 18
FUN STATE POOLS

TYPICAL PLAN & SECTIONS
FOR RESIDENTIAL POOL/SPA

SHEET
S1

SHEET 1 OF 3

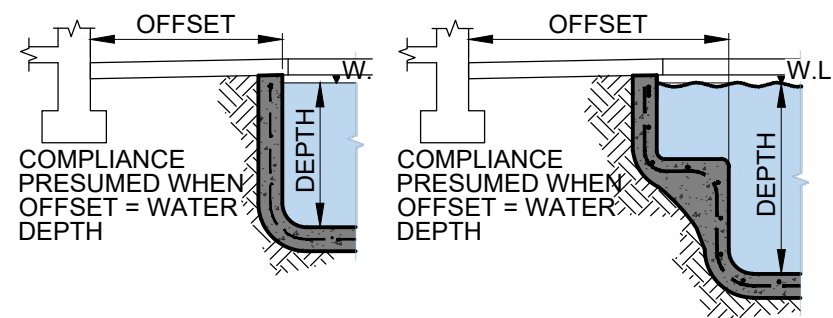
\\KIMES\VD-Drive\COMPANY SHARED TWO\2020 FBC 7TH ED\2020 FBC KE Std Eng - r5.dwg



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:



"ANGLE OF REPOSE" OR SEE CONTRACTOR PLAN

2 PROXIMITY TO STRUCTURE

SCALE: N.T.S.

1. 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.
2. 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.
3. 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 FINDS A LOSS OR THREATENED LOSS OF SOIL SUPPORT AT THE FOUNDATION, CONTACT THE ENGINEER FOR A MITIGATION SPECIFICATION.

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

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2-3-2022 REVISION
VERSION: 3-Feb-22

4221 SW COUNTY ROAD 18
FUN STATE POOLS

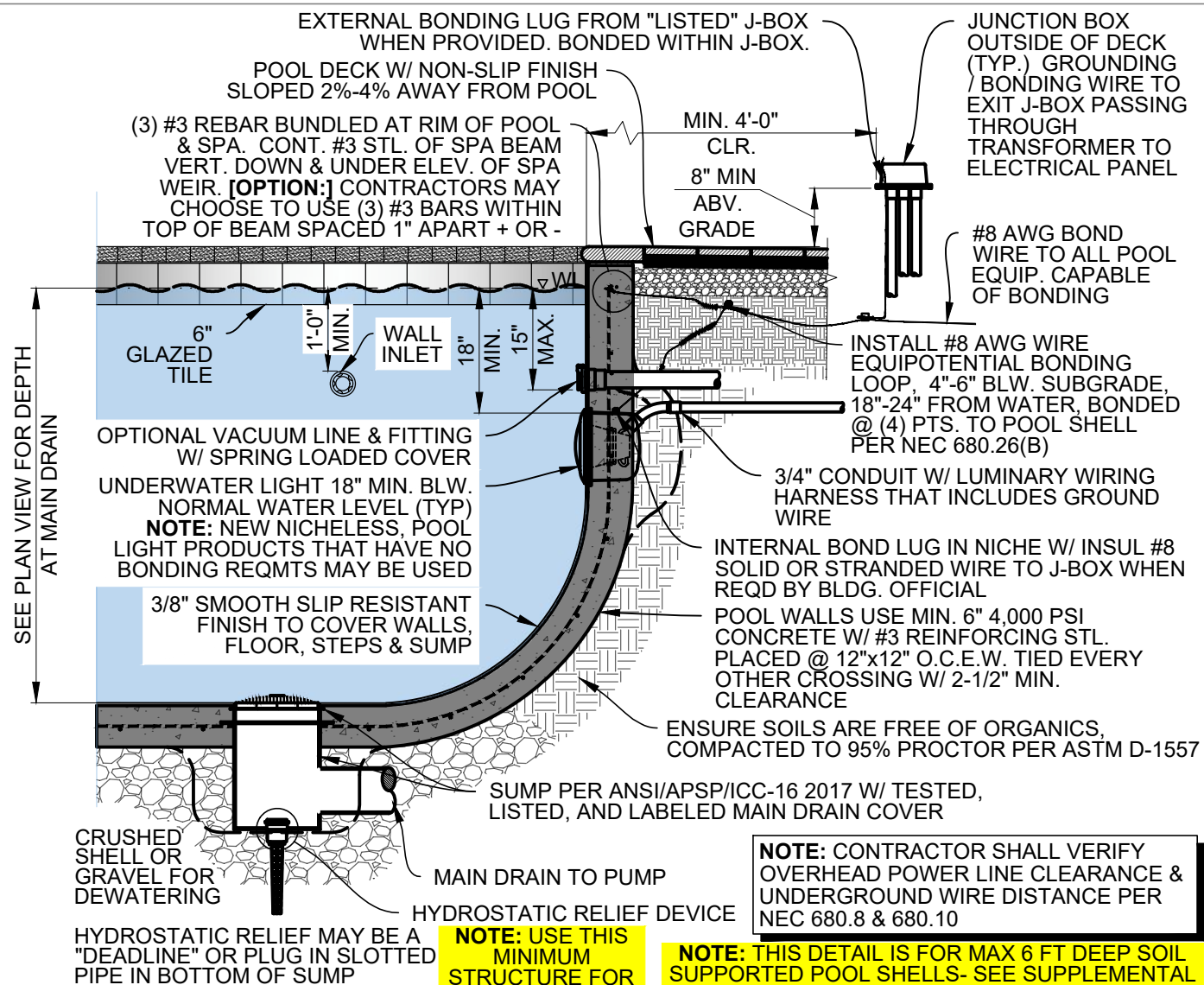
TYPICAL PLAN & SECTIONS
FOR RESIDENTIAL POOL/SPA

ORIG. DWG: 17"x11" (ANSI B)

SHEET
S2

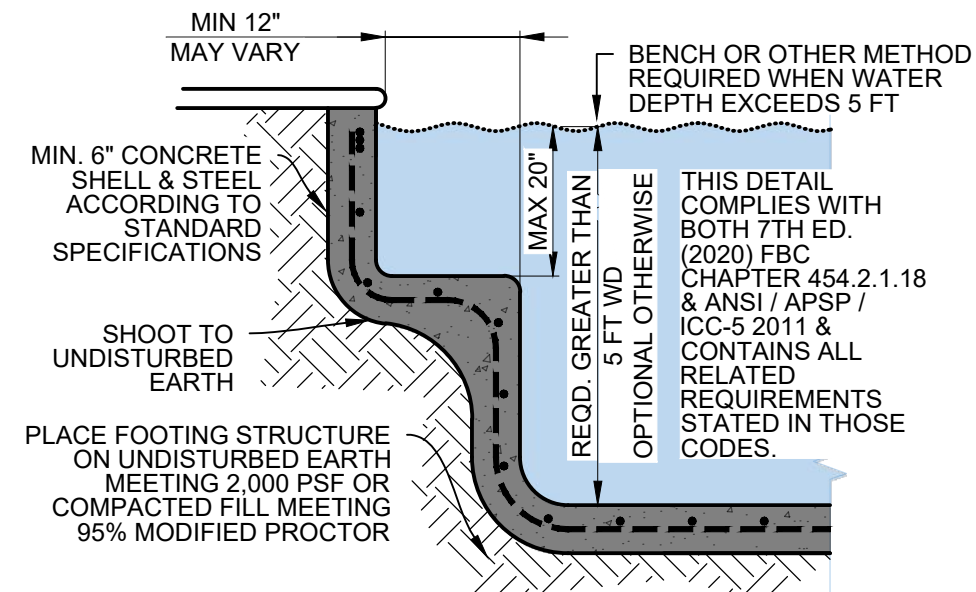
SHEET 2 OF 3

\\KIMES\SRV-Drive\COMPANY SHARED\TWO\2020 FBC 7TH ED\2020 FBC KE Std Eng - r5.dwg



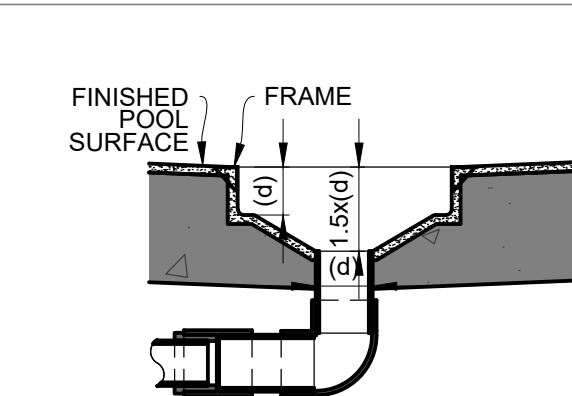
1 POOL DEEP END SECTION

SCALE: N.T.S.



3 BENCH SECTION

SCALE: N.T.S.



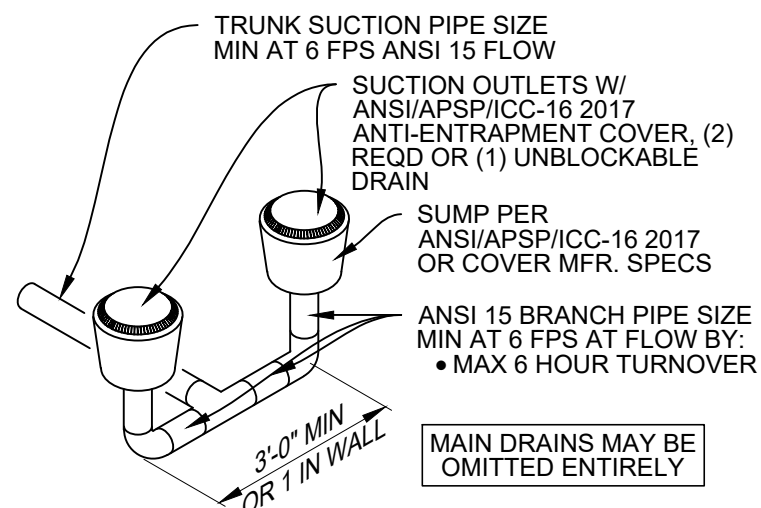
SPECIFIED PVC PIPE SIZE (d)
MIN. SUMP DEPTH 1.5x(d)
MIN. LEDGE DEPTH (d)
- OR -
FOR FIELD BUILT SUMPS SEE PRODUCT INSTALLATION INSTRUCTIONS

2 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

2 FIELD BUILT SUMP

SCALE: N.T.S.



4 BRANCH PIPING

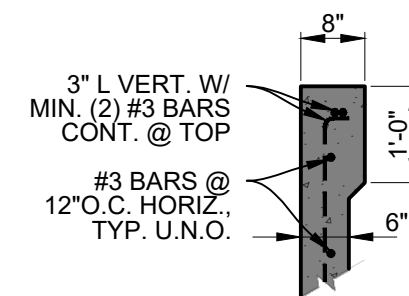
SCALE: N.T.S.



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.



5 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 S1



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FUN STATE POOLS

TYPICAL SECTIONS
FOR RESIDENTIAL POOL/SPA

ORIG. DWG: 17"x11" (ANSI B)

SHEET
S3

SHEET 3 OF 3