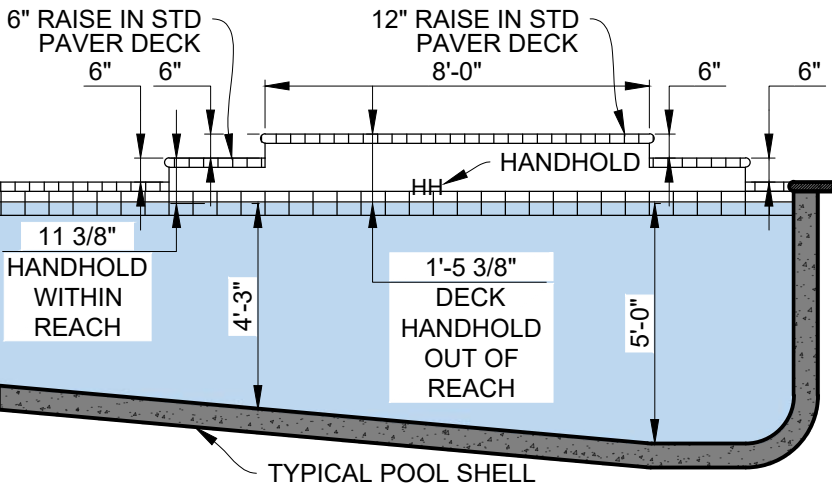


RESIDENTIAL POOL AND SPA PLAN REVIEW CHECKLIST FOR CRITICAL SAFETY CODE REQMTS

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]

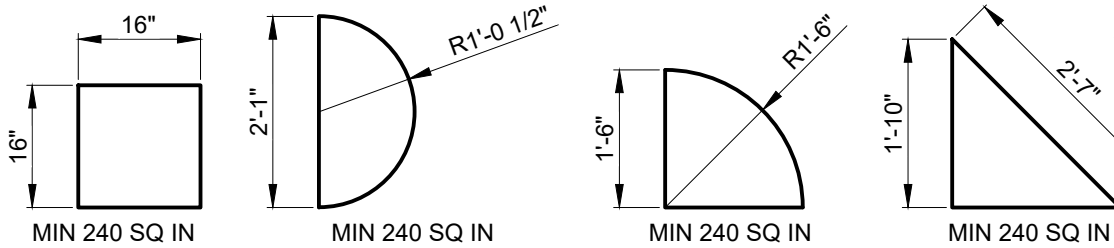


ON PAVER COPING A 6" RISE STILL HAS HANDHOLD

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.

This item has been electronically signed and sealed by J. Kent 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.

James Kent Kimes License No. 33678
Digitally signed by James K Kimes
DN: C=US, O=KIMES ENGINEERING AND MANAGEMENT SERVICES INC., dnQualifier=A0141060000018, 709569400059AC3, cn=James K Kimes
Date: 2023.12.18 15:49:26 -05'00'
Adobe Acrobat version: 2023.006.20380
1925 Worth Ct
Bradenton, FL 34211
Office: 941-749-0311
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PROJ. NO.: DWG BY: CKD BY: JKK
KE_RSTD MCM
DRAWING: VERSION: 01-Jan-21 3-Feb-22

HANDHOLDS REQUIRED

SCALE: N.T.S.

WHEN POOL WATER CLOSER THAN 5 FT

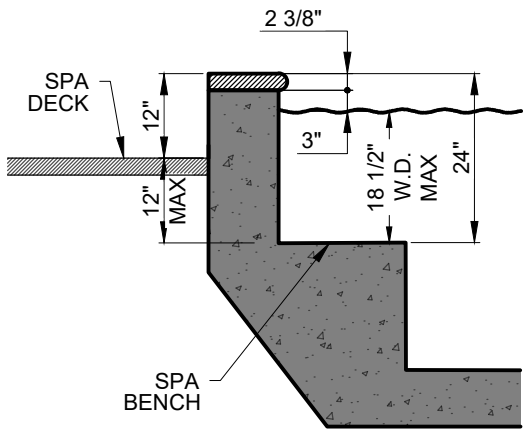
WINDOWS, DOORS OR OTHER GLASS WITHIN 5 FT OF WATER'S EDGE: MUST HAVE MANUFACTURER'S DESIGNATION OF SAFETY GLAZING AND BE VISIBLY MARKED

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:

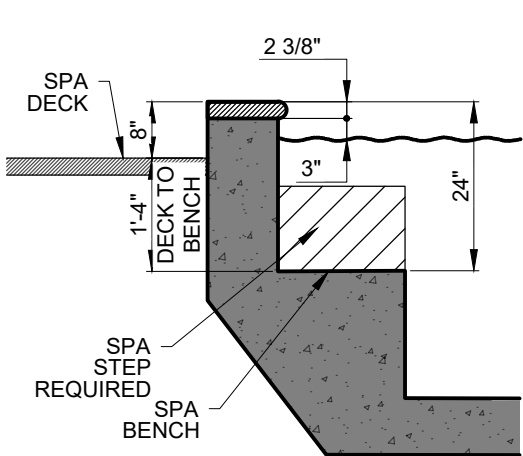
1. GAS HEATER ELECTRICAL FEED SHALL BE THROUGH GFCI.
2. 4X PIPE DIAMETER STRAIGHT PIPE REQUIRED STRAIGHT INTO PUMP, 8" FOR 2" FITTING, 10" FOR 2.5" FITTING.
3. MIN 18" STRAIGHT PIPE REQUIRED AFTER FILTER AN BEFORE HEATER, IF HEATER PROVIDED.

PLAN REVIEWER AND INSPECTOR MUST VERIFY SUCTION OUTLET COVER RATED FLOW GREATER THAN DETAILED TDH 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



12" RAISED SPA NO STEP

SCALE: N.T.S.



8" RAISED SPA STEP REQD.

SCALE: N.T.S.

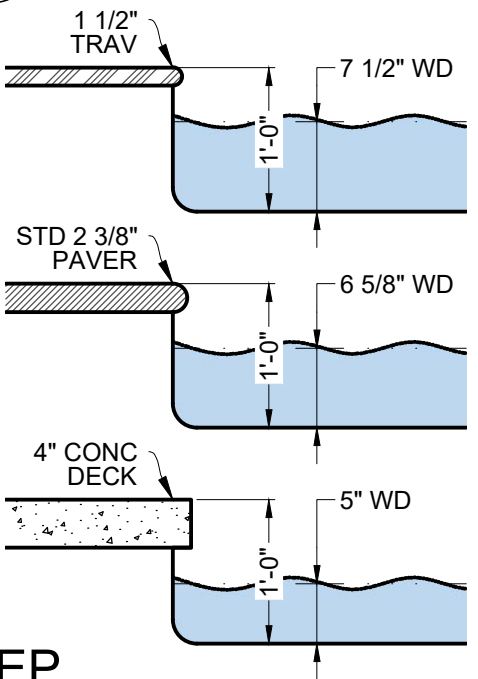
DIGITAL SIGNATURE
INDEX SHEET FOR SHEETS
S1 S2 S3 PER RULE
61G15-23.001(4)(b),F.A.C.

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.



(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

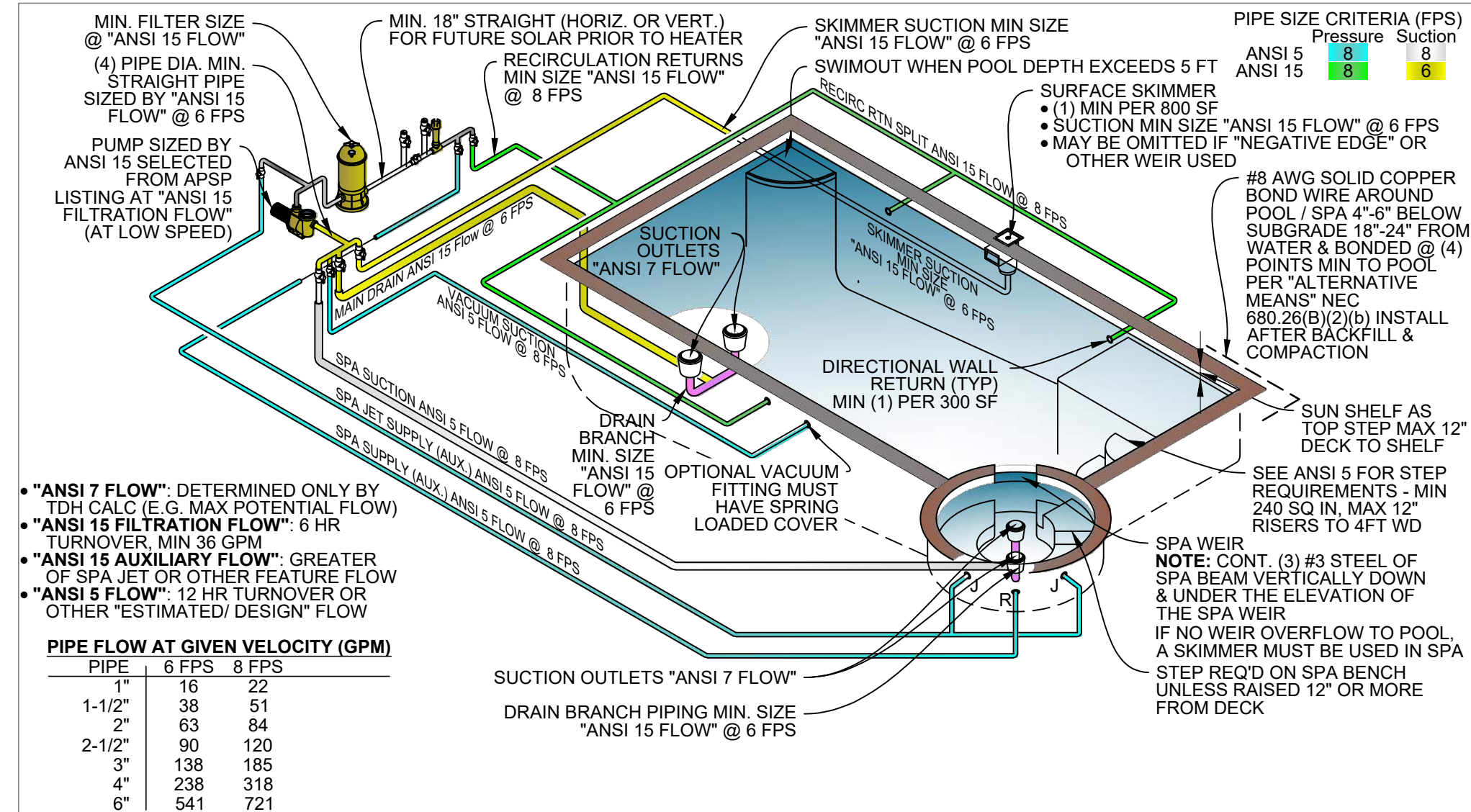
ORIG. DWG: 17"x11" (ANSI B)

132 NW SILVERLEAF LN
SOUTHERN ESCAPES LLC
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



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) 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.

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

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

132 NW SILVERLEAF LN
SOUTHERN ESCAPES LLC

TYPICAL PLAN & SECTIONS
FOR RESIDENTIAL POOL/SPA

SHEET

S2

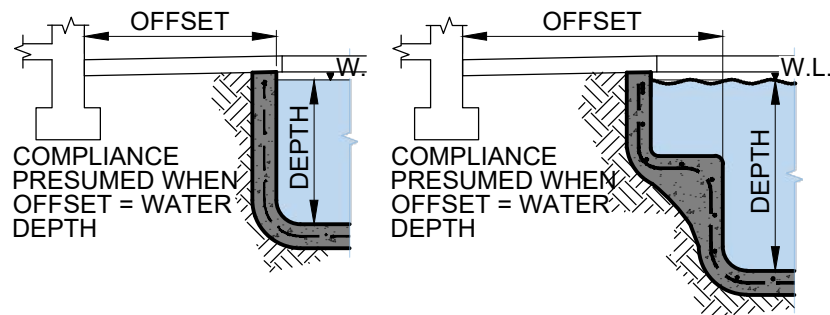
SHEET 2 OF 3

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

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:



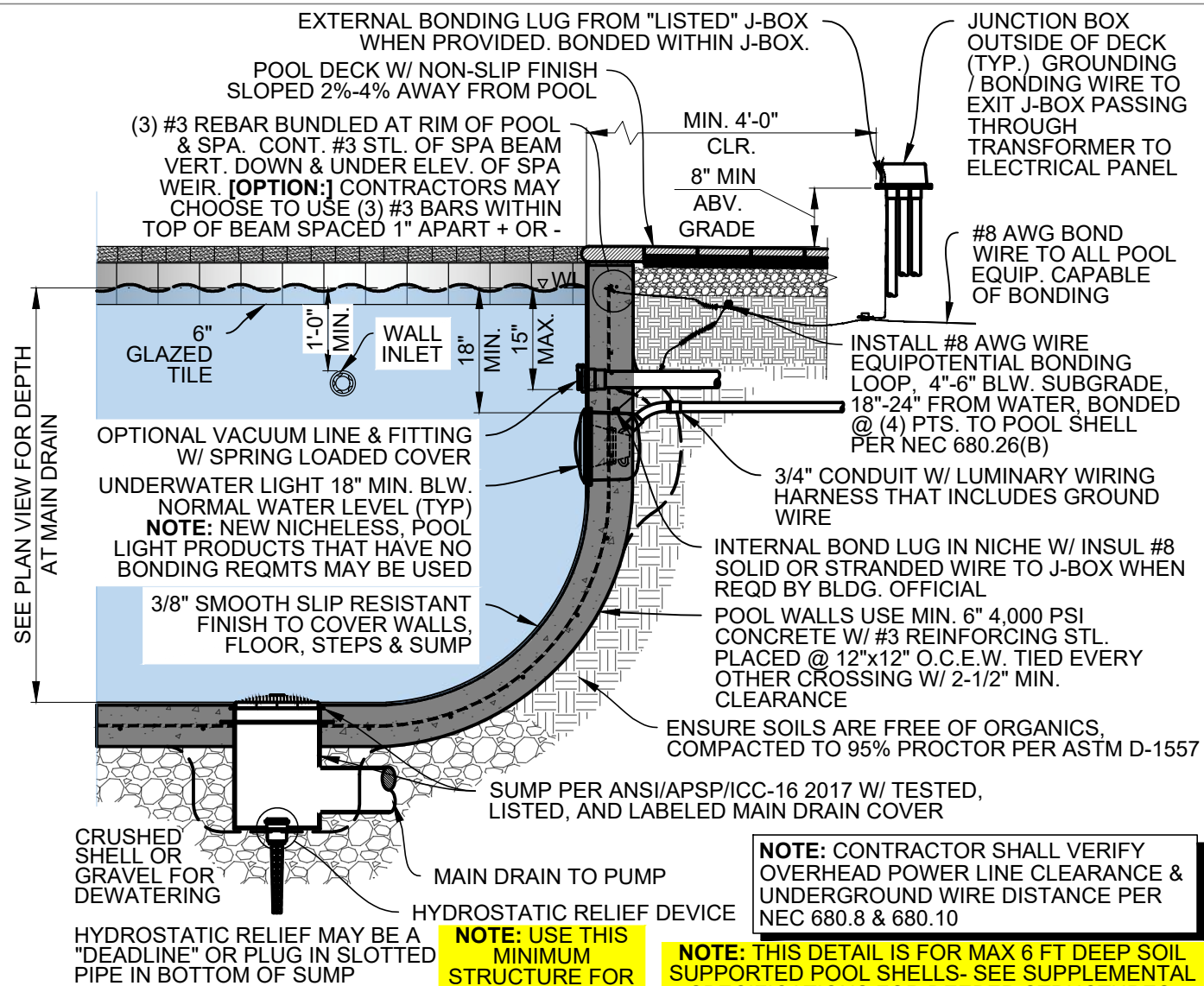
"ANGLE OF REPOSE"
OR SEE CONTRACTOR PLAN

- 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.

2 PROXIMITY TO STRUCTURE

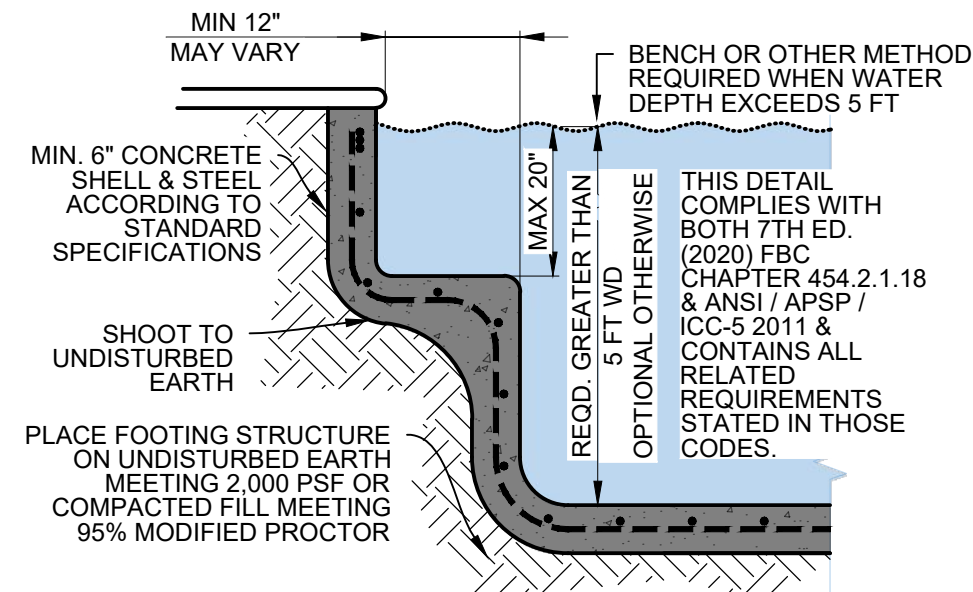
SCALE: N.T.S.

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



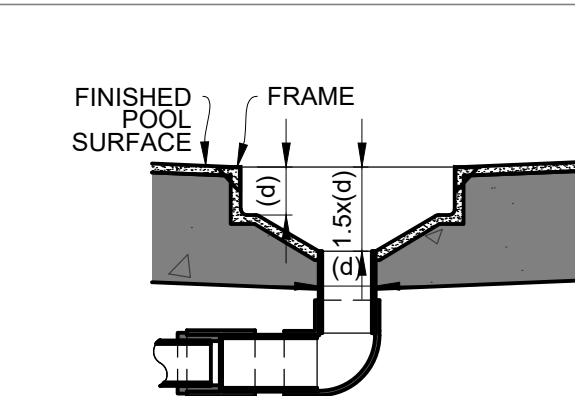
1 POOL DEEP END SECTION

SCALE: N.T.S.



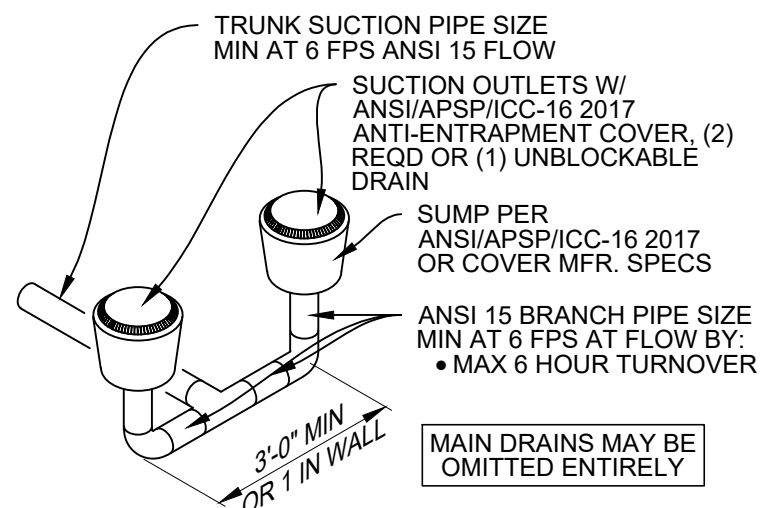
3 BENCH SECTION

SCALE: N.T.S.



2 FIELD BUILT SUMP

SCALE: N.T.S.



4 BRANCH PIPING

SCALE: N.T.S.

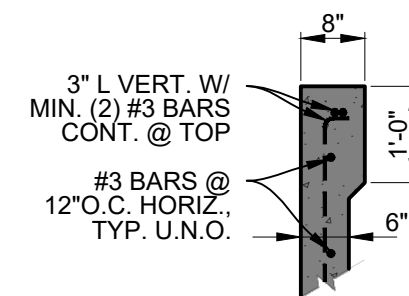


NOTES:

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

ADDITIONAL STRUCTURAL NOTES:

- USE MINIMUM ASTM 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:
 - 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.

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

SEE DIGITAL SIGNATURE ON INDEX SHEET S1

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TYPICAL SECTIONS
FOR RESIDENTIAL POOL/SPA

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

SHEET
S3
SHEET 3 OF 3