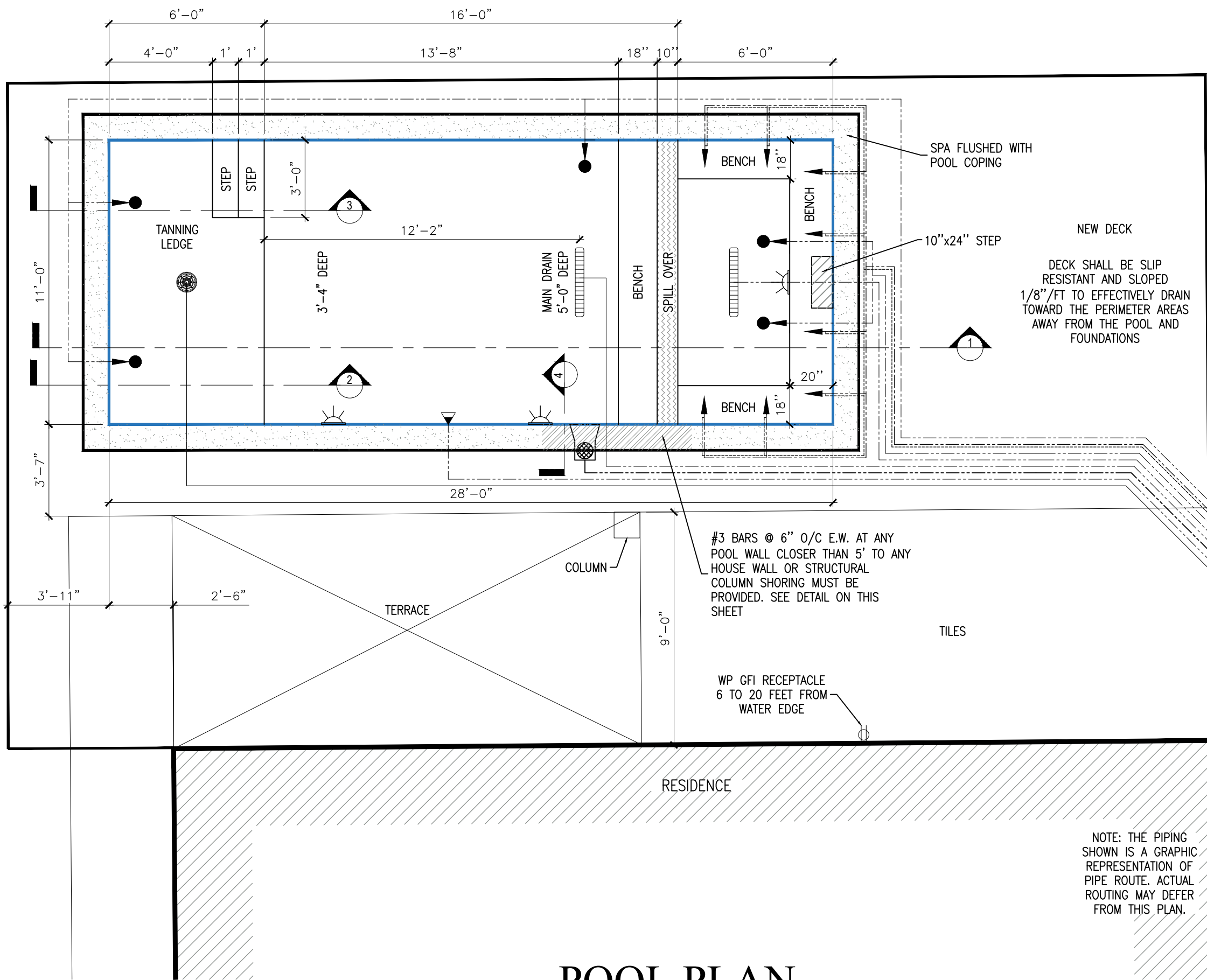




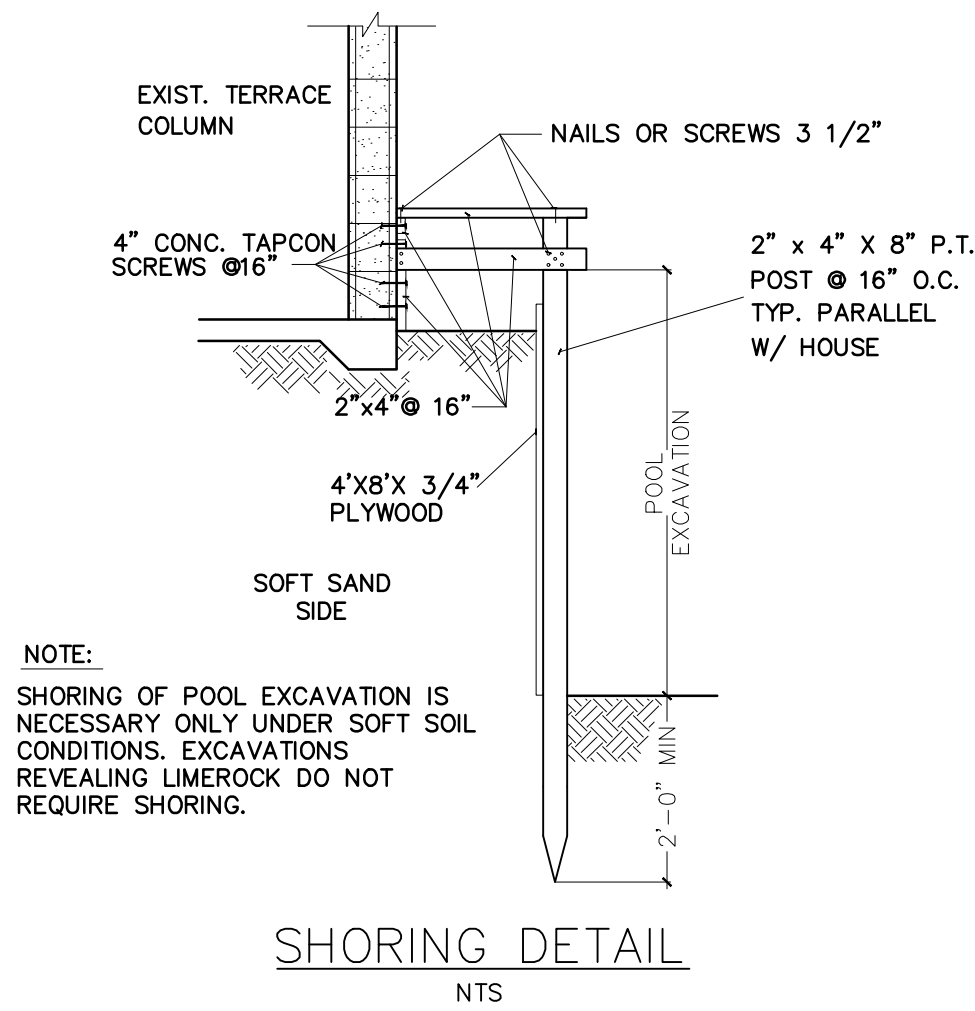
POOL PLAN
SCALE: 1/4"=1'-0"

LEGEND:

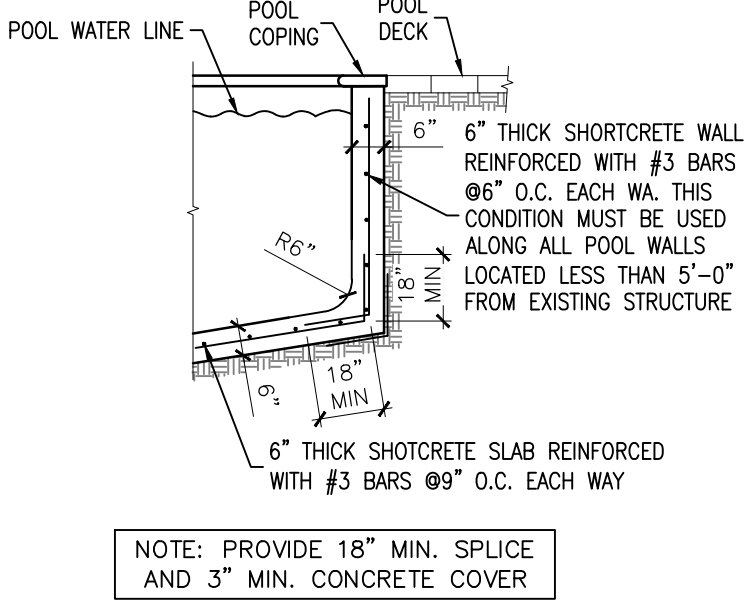
- POOL/SPA CHANNEL MAIN DRAIN
- SKIMMER
- VACUUM
- POOL/SPA RETURN
- NICHELESS LIGHT
- THERAPY JETS WITH BLOWERS
- LED BUBBLER

- 1 1/2" BUBBLER LINE
- 2" VACUUM
- 2" SKIMMER
- 2 1/2" POOL CHANNEL MAIN DRAIN
- 2 1/2" SPA CHANNEL MAIN DRAIN
- 2" SPA RETURN
- 2" BLOWER LINE
- 2" THERAPY RETURN
- 2" POOL RETURN

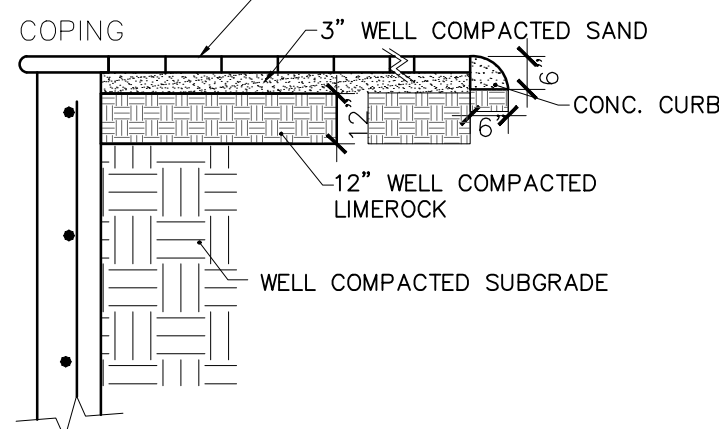
NOTE: THE PIPING SHOWN IS A GRAPHIC REPRESENTATION OF PIPE ROUTE. ACTUAL ROUTING MAY DEFER FROM THIS PLAN.



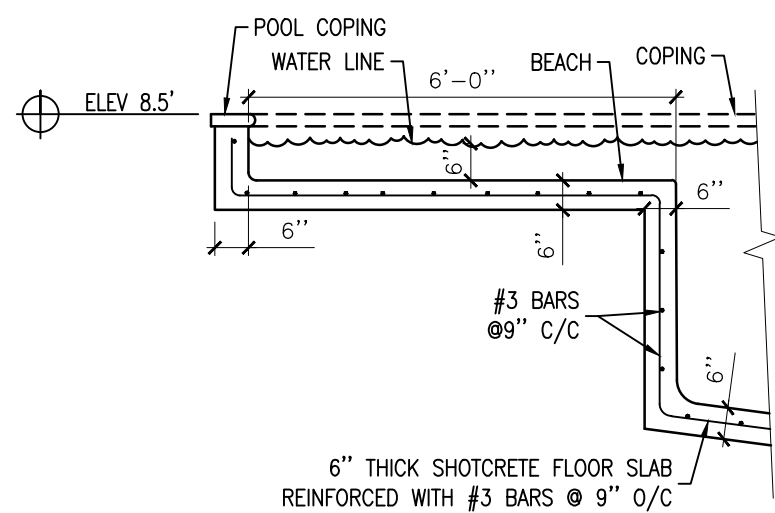
SHORING DETAIL
NTS



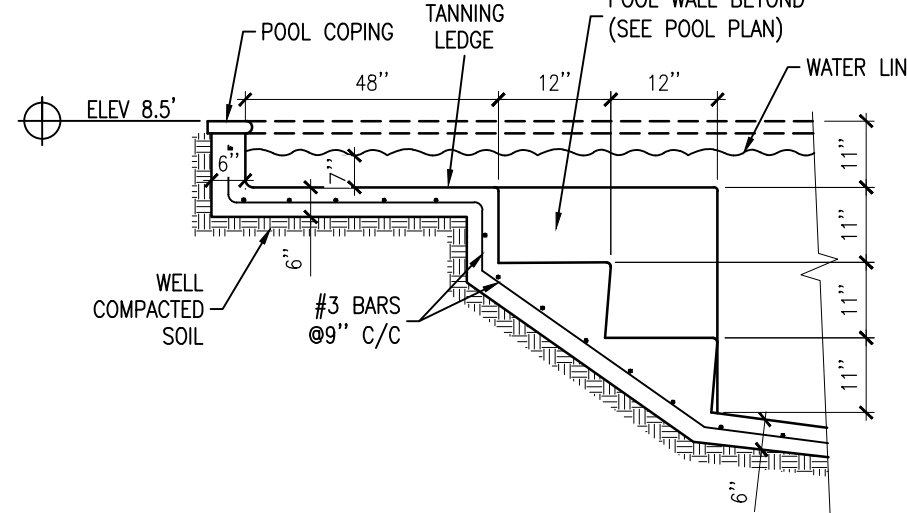
SECTION 4
NTS



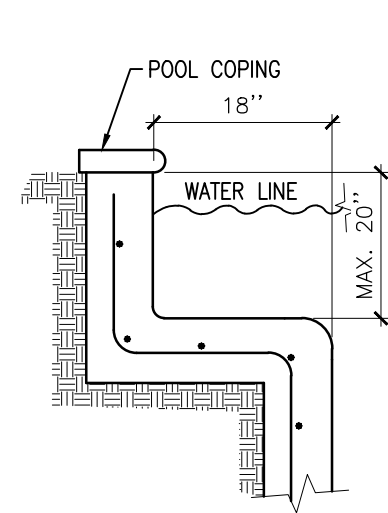
PAVERS DETAIL (TYP.)
NTS



TANNING LEDGE DETAIL (TYP.)
SECTION 2
NTS



STEPS AND TANNING LEDGE DETAIL (TYP.)
SECTION 3
NTS



BENCH DETAIL
NTS

STRUCTURAL NOTES:

STRUCTURAL DESIGN SHALL COMPLY WITH FBC 2023 AND ASCE 7-22.

1. ALL POOL CONCRETE SHALL CONFORM WITH THE LATEST EDITION OF ACI 301 AND ACI 318 AND SHALL DEVELOP A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 4000 PSI. POOL CONCRETE CAN BE APPLIED PNEUMATICALLY AND SHALL COMPLY WITH LATEST EDITION OF ACI 506.2

2. ALL REINFORCEMENT STEEL TO BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. REINFORCING STEEL TO BE DETAILED AND FABRICATED IN ACCORDANCE WITH 'THE MANUAL OF STANDARD PRACTICE OF DETAILING REINFORCING CONCRETE STRUCTURES' AND THE ACI 318. ALL TOP AND BOTTOM BARS SHALL BE CONTINUOUS AND SHALL TERMINATE WITH STANDARD HOOKS AT DISCONTINUOUS ENDS.

3. ALL DECK CONCRETE (WHEN INSTALLED UNDER THESE PLANS) SHALL HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH OF 2500 PSI. REINFORCED STEEL FROM POOL WALL SHALL NOT BE BENT INTO A NEW OR FUTURE CONCRETE DECK. CONCRETE DECK SHALL BE FREE TO FLOAT BEYOND POOL WALL. EXCEPTION: STRUCTURAL DECKS SHALL COMPLY WITH THE DESIGN FOR SUPPORT SHOWN ON THESE PLANS.

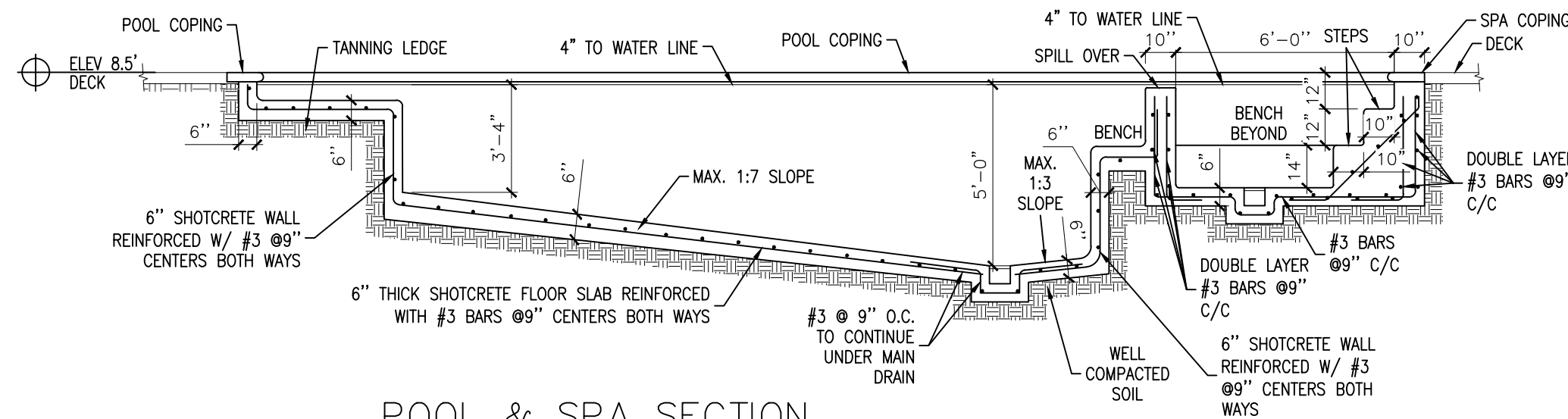
4. SPLICES IN REINFORCING BARS SHALL NOT BE LESS THAN 1'-6" FOR #3 BARS AND 2'-0" FOR #4 BARS AND REINFORCEMENT SHALL BE CONTINUOUS AROUND ALL CORNERS OR CHANGES IN DIRECTION BY BENDING THE LONGITUDINAL STEEL AROUND THE CORNER 48 BAR DIAMETERS OR BY ADDING MATCHING REINFORCEMENT STEEL WHICH SHALL EXTEND 48 BAR DIAMETERS FROM EACH CORNER OR CHANGE IN DIRECTION.

5. THE DESIGN OF THIS PROJECT HAS INCORPORATED A RATIONAL DESIGN APPROACH BASED ON ACCEPTED ENGINEERING PRINCIPALS.

6. POOL WALL REINFORCEMENT IS ADEQUATE TO WITHSTAND THE HORIZONTAL WATER LOADS PLACED ON THE POOL WALL FOR UP TO 18" OF EXPOSED POOL WALL ABOVE GRADE.

DATA	POOL (WET AREA)	SPA (WET AREA)	DECK
SURFACE AREA (SQ. FT.)	233	66	800
PERIMETER (FEET)	65	34	—
VOLUME (GALLONS)	7252	1401	—
TURNOVER (HOURS)	1.8	0.4	—

*8653 GALLONS RE-CIRCULATED IN 2.2 HOURS
PUMP RATED AT 68 GPM @ 60' TDH
2.7 HP ENERGY EFFICIENT
VARIABLE SPEED POOL PUMP



POOL & SPA SECTION
SECTION 1
NTS

NOTE:

REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER AS FOLLOWS, U.O.N. IN DRAWINGS:

- >> CONCRETE POURED AGAINST EARTH 3"
- >> CONCRETE EXPOSED TO EARTH OR WEATHER:
5' OR SMALLER 1-1/2"
6' OR LARGER 2"

FLOOD ZONE AE

FLOTATION ANALYSIS	UNITS
TOP OF WALL ELEV.	8.50 FT
DIST. FROM TOP OF WALL TO WATER LEVEL	0.33 FT
WATER DEPTH AT DEEP END	5.00 FT
WATER DEPTH AT SHALLOW END	3.30 FT
AVERAGE POOL WATER DEPTH	4.15 FT
LEVEL @ AVERG DEPTH @ BOTT OF SLAB	3.52 FT
FLOOD CRITERIA	6.00 FT
INITIAL WATER HEAD	2.48 FT
LESS HYDROVERTICAL RELIEF	-2.00 FT
ADJUSTED WATER HEAD	0.48 FT
UP LIFT PRESURE	29.95 PSF

UPLIFT RESISTANCE CALCULATION	UNITS
POOL & SPA AREA A	233.00 SF
WALL PERIMETER P	65.00 LF
AVERAGE WALL HEIGHT	4.15 FT
WATER DENSITY	62.40 PCF
CONCRETE DENSITY	144.00 PCF
SLAB THICKNESS	0.50 FT
WALL THICKNESS	0.50 FT
WALL UPLIFT RESISTING PRESSURE	83.36 PSF
SIAB UPLIFT RESISTING PRESSURE	72.00 PSF
TOTAL UPLIFT RESISTANCE	155.36 PSF
UPLIFT/ UPLIFT RESIST.	0.1927956<1 OK

WARNING:

TO EMPTY THE POOL AFTER CONSTRUCTION FOR AHY REASON, HYDROSTATIC UPLIFT PRESSURES BENEATH THE POOL MUST BE ELIMINATED TO PREVENT POOL FROM FLOATING UPWARD. THE OWNER MUST CONSULT A CONTRACTOR EXPERIENCED IN ELIMINATING PRESSURES.



REVISIONS

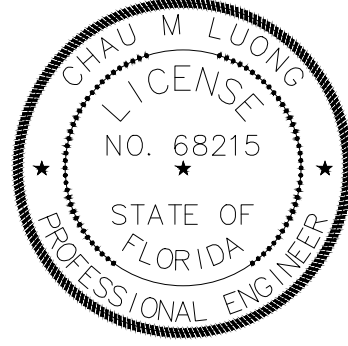
NUMBER	DATE
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CLM Structural Engineering, Corp.

Chau M Luong PE

Structural Engineer
Florida License 68215
6720 NW 174 TER
Hialeah, FL 33015
Ph: (786)547-7921

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY CHAU M. LUONG ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED, AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.



Chau M Luong

Digitally signed by Chau M Luong
DN: c=US, o=Florida, dnQualifier=A01410D00000018DE6
881EEF00081F01, cn=Chau M Luong
Date: 2026.06.29 18:25:45 -04'00'

Project
Proposed Swimming Pool

Project

JOB No:

DESIGNED BY:

CLM

CHECKED BY:

CLM

SCALE:

AS SHOWN

DATE:

06/01/2026

2

2 OF 3