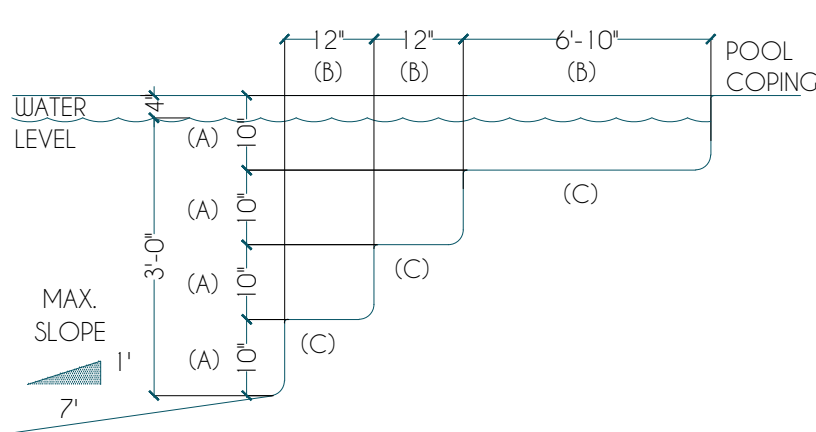
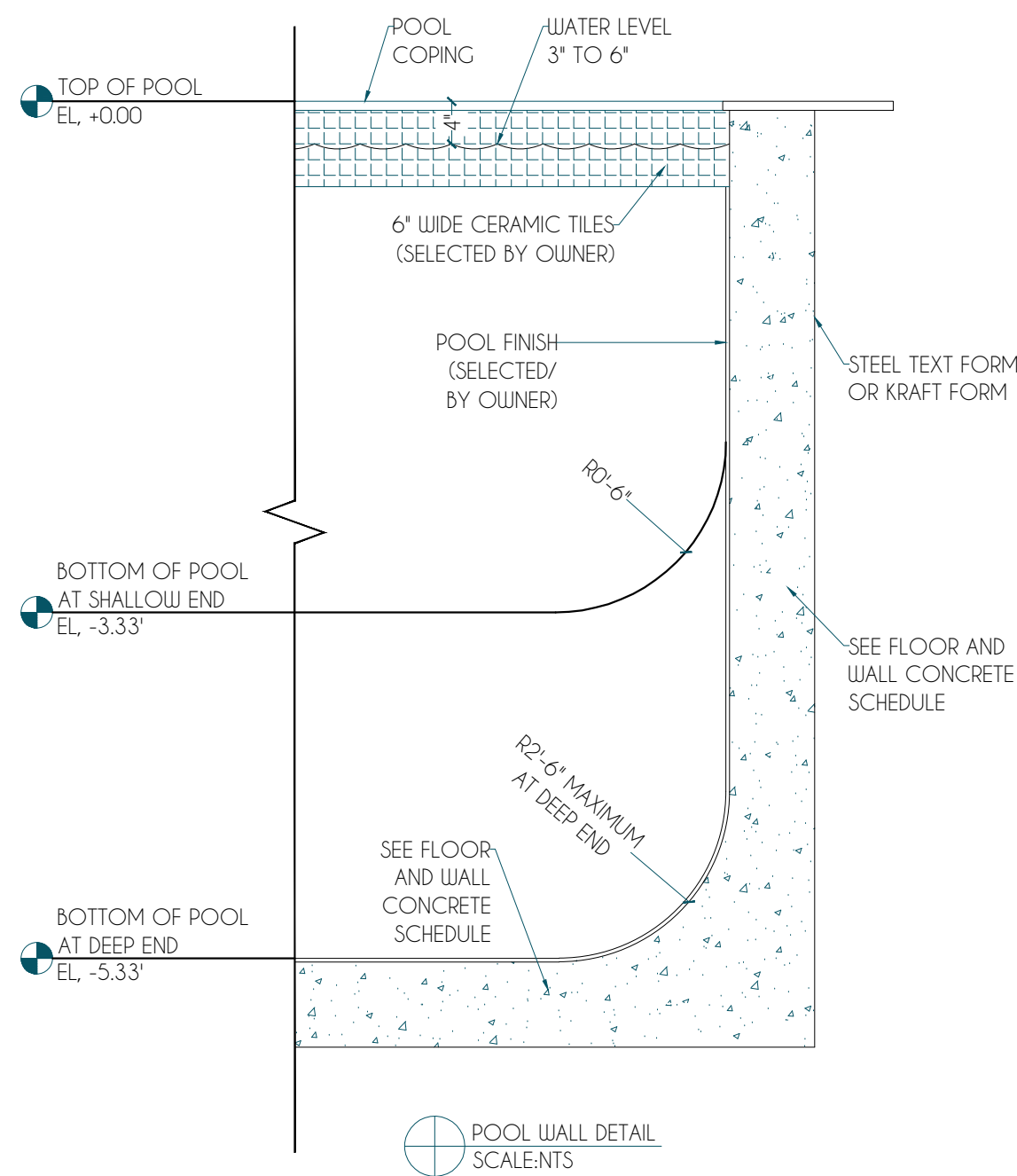


1. ALL POOL CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF $f_c = 3,500$ PSI.
2. ALL PILE CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF $f_c = 5,000$ PSI.
3. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF $F_y = 60,000$ PSI.
4. ALL REINFORCING CONCRETE WHEN INSTALLED UNDER THESE PLANS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF $f_c = 2,500$ PSI.
5. THE DESIGN OF THIS PROJECT HAS INCORPORATED A RATIONAL DESIGN APPROACH BASED ON ACCEPTED ENGINEERING PRINCIPLES.
6. ALL REINFORCING STEEL SPICES SHALL BE 24" IN LENGTH FOR #3 BARS AND 30" FOR #4 UNLESS OTHERWISE NOTED ON PLANS.
7. ALL REINFORCING STEEL HOOKS SHALL DEVELOP A LENGTH OF 9" FOR #3 BARS AND 11" FOR #4 BARS UNLESS OTHERWISE NOTED ON PLANS.
8. DEVELOPMENT FOR REINFORCING STEEL SHALL BE 18" FOR #3 BARS AND 24" FOR #4 BARS UNLESS OTHERWISE NOTED ON PLANS.
9. A 3" MINIMUM CLEAR CONCRETE COVER SHALL BE PROVIDED.

FLOOR AND WALL CONCRETE SCHEDULE FOR SWIMMING POOL		
	THICKNESS	REINFORCEMENT
WALL	6"	#3@9" VERTICAL & HORIZONTAL
FLOOR	8"	#3@6" BOTTOM EACH WAY

FLOOR AND WALL CONCRETE SCHEDULE FOR SPA		
	THICKNESS	REINFORCEMENT
WALL	10"	#3@6" VERTICAL & HORIZONTAL BOTH FACES
FLOOR	8"	#3@6" BOTTOM EACH WAY



- COMPLYING WITH ANSI/NSPI 5.6 FLOOR SLOPES
- (A) RISER HEIGHT MUST BE UNIFORM (TOP & BOTTOM MAY VARY) (12" MAX)
 - (B) CONTRASTING TILE AT EDGE (OPTIONAL)
 - (C) TREADS SHALL HAVE SLIP-RESISTANT SURFACES-ANSI/ASAP-ICC-5 6.1.5



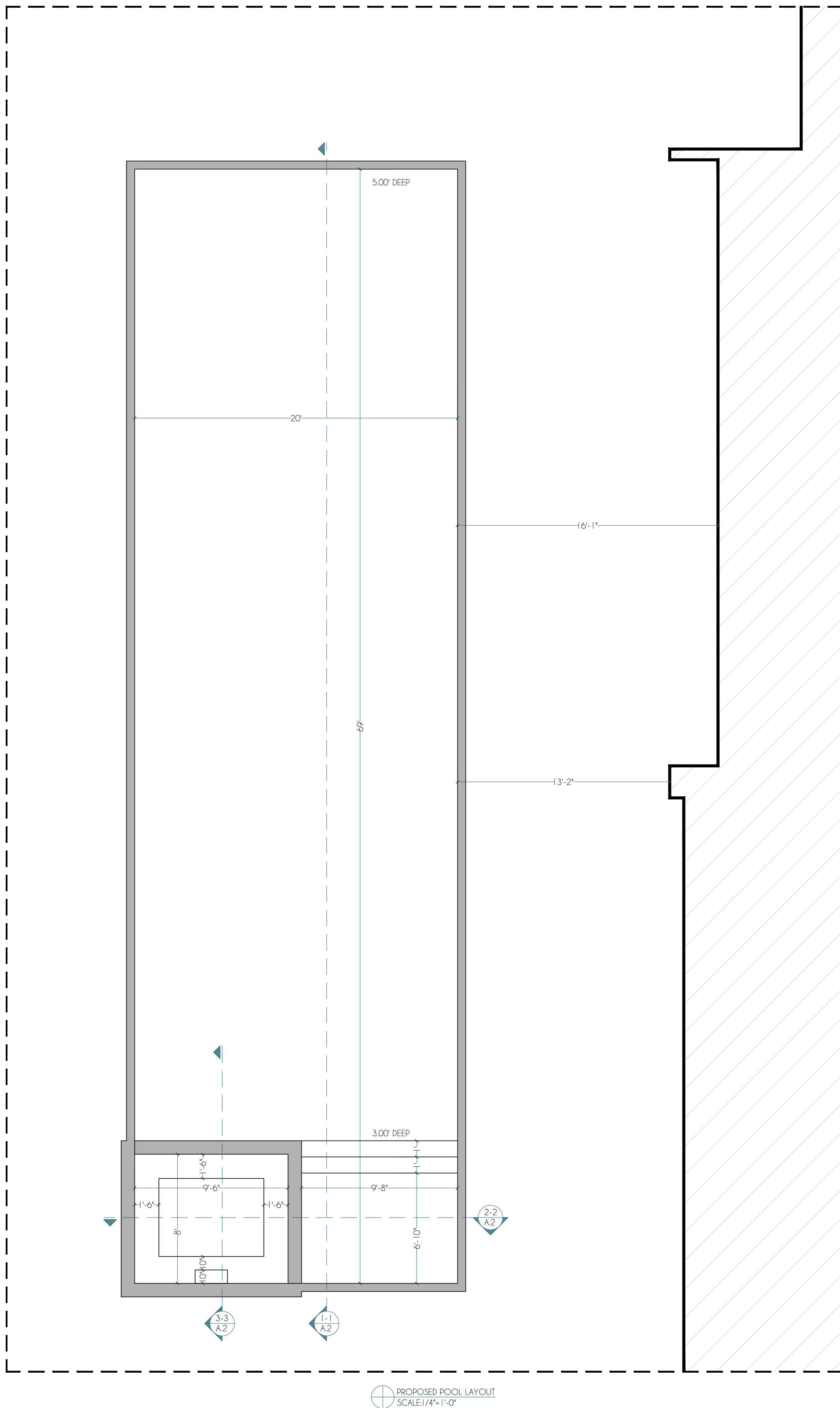
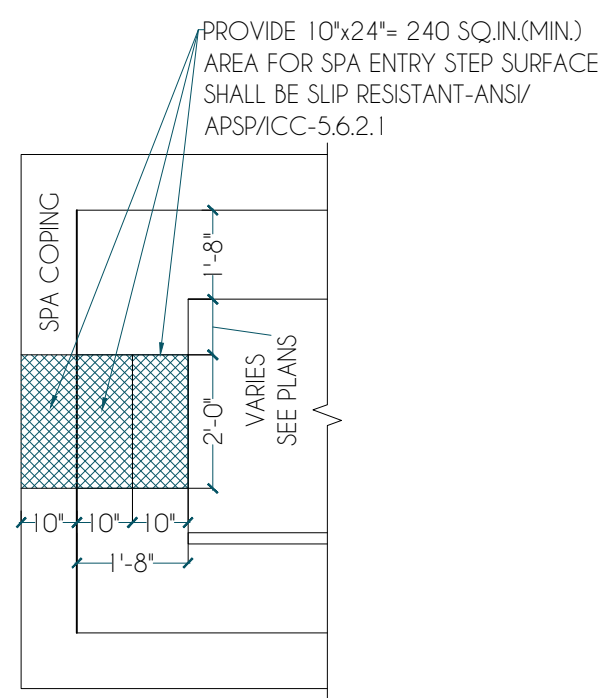
ITEM	ROTATION ANALYSIS CALCULATION	ELEVATION	UNITS
A	TOP OF POOL WALL ELEVATION (INGVD)	11.37	FT
B	DISTANCE FROM TOP OF POOL TO WATER LEVEL	0.33	FT
C	DEPTH OF POOL AT SHALLOW END	3	FT
D	DEPTH OF POOL AT DEEP END	5	FT
E	SLAB THICKNESS	0.67	FT
F	ELEVATION OF POOL BOTTOM	5.37	FT
G	FLOOD CRITERIA (INGVD) ZONE X (ELEV.=N/A)	8	FT
H	INITIAL WATER HEAD= G-F	2.63	FT
I	LESS HYDROSTATIC RELIEF VALVE (FBC 1618.24)	2	FT
J	ADJUSTABLE WATER HEAD H-I	0.63	FT
K	WATER WEIGHT	62.4 LB/FT ³	
L	UPLIFT PRESSURE= J x K	39.104	PSF
(UP)	POOL UPLIFT PRESSURE AREA = L x M	53,963.52	POUND

M	POOL AREA	1380.00	SQ.FT
N	CONCRETE'S VOLUME OF SIDE WALL (BOTH)	276.00	FT3
O	CONCRETE'S VOLUME OF SHALLOW END WALL	30.00	FT3
P	CONCRETE'S VOLUME OF DEEP END WALL	50.00	FT3
Q	CONCRETE'S VOLUME OF BOTTOM SLAB	920.00	FT3
R	CONCRETE'S VOLUME OF SWIMOUT	0.00	FT3
S	CONCRETE'S VOLUME OF SPA	190.06	FT3
T	CONCRETE WEIGHT	150.00	LB/FT3
(DOWN) TOTAL POOL WEIGHT=(N + O + P + Q + R + S) x T		219,909.10	POUND

TOTAL POOL WEIGHT CONCRETE > POOL UPLIFT PRESSURE (OK)	
PROPOSED THICKNESS FOR POOL WALLS =	6 INCHES
PROPOSED THICKNESS FOR POOL SLAB =	8 INCHES

POOL SPECIFICATION TABLE			
SIZE		20 X 69	FT
SHALLOW END		3.00	FT
BOTTOM OF POOL		5.00	FT
PERIMETER		178	LF
AREA		1380	SQFT
CAPACITY		41,290	GLS
PUMP*		2.7	HP
FILTER		300	SQ.FT
TILE		6" (BY OWLINER)	
TYPE OF PATIO		SLIP RESISTANT	
BLOWER		N/A	HP
WATER HEATER (GAS)		400,000	BTU
TURNOVER RATE		5.93	HRS
*RESIDENTIAL POOL FILTER PUMP MOTORS WITH A CAPACITY OF 1 HP OR GREATER SHALL HAVE THE CAPABILITY OF OPERATING AT TWO OR MORE SPEEDS PER FBC RE R403.12			

SPA SPECIFICATION TABLE			
SIZE	8 X 9.5	FT	
DEPTH	3.00	FT	
PERIMETER	35.00	LF	
AREA	76	SQFT	
CAPACITY	1706	GLS	
PUMP*	1.50	HP	
FILTER	SAME AS POOL		SQ_FT
TILE	6" (BY OWNER)		
TYPE OF PATIO	SLIP RESISTANT		
BLUOIER	2	HP	
WATER HEATER (GAS)	400000	BTU	
TURN OVER RATE	0.52	HRS	
*RESIDENTIAL POOL FILTER PUMP MOTORS WITH A CAPACITY OF 1 HP OR GREATER SHALL HAVE THE CAPABILITY OF OPERATING AT TWO OR MORE SPEEDS PER FBC RE 1403.12			

 PROPOSED POOL LAYOUT
SCALE: 1/4" = 1'-0"

REVISION: _____

NO.	DESCRIPTION
-----	-------------

ENGINEER _____

VICTOR RAMOS P.E.LIC No: 87496
7700 N KENDALL DR, SUITE 706, MIAMI FL 33156
(786) 830-3551

Victor Ramos
 Digitally signed by Victor Ramos
 Date: 2025.07.03 11:06:55 -04'00'

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED
AND SEALED BY VICTOR RAMOS, P.E. ON THE
DATE AND/OR TIME STAMP SHOWN USING A
DIGITAL SIGNATURE. PRINTED COPIES OF THIS
DOCUMENT ARE NOT CONSIDERED SIGNED AND
SEALED AND THE SIGNATURE MUST BE VERIFIED BY
A 3RD PARTY CERTIFICATE AUTHORITY ON ANY
ELECTRONIC COPY.

DESIGNER: _____



TERRA
ENGINEERING
CONSULTING

PROJECT: _____

NEW CONCRETE SWIMMING POOL & SPA

ADDRESS: _____

6200 SW 123RD TERRACE, MIAMI, FL 33156

PROJECT DATE: 5.9.2025

DRAWING BY: MR

CHECKED: FD

SHEET TITLE: _____

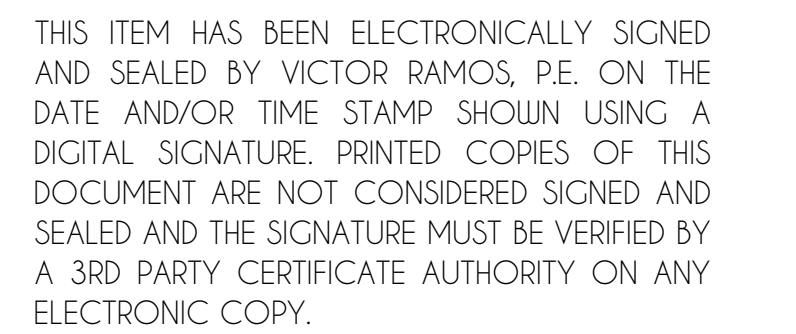
STRUCTURAL PLAN

SHEET No: _____

A.1



VICTOR RAMOS P.E.LIC No: 87496
7700 N KENDALL DR, SUITE 706, MIAMI FL 33156
(786) 830-3551



PROJECT: _____

ADDRESS: _____

PROJECT DATE: 5.9.2025
DRAWING BY: MR
CHECKED: FD

STRUCTURAL PLAN

A.2

