

BACKFILL AND GRADING NOTES:

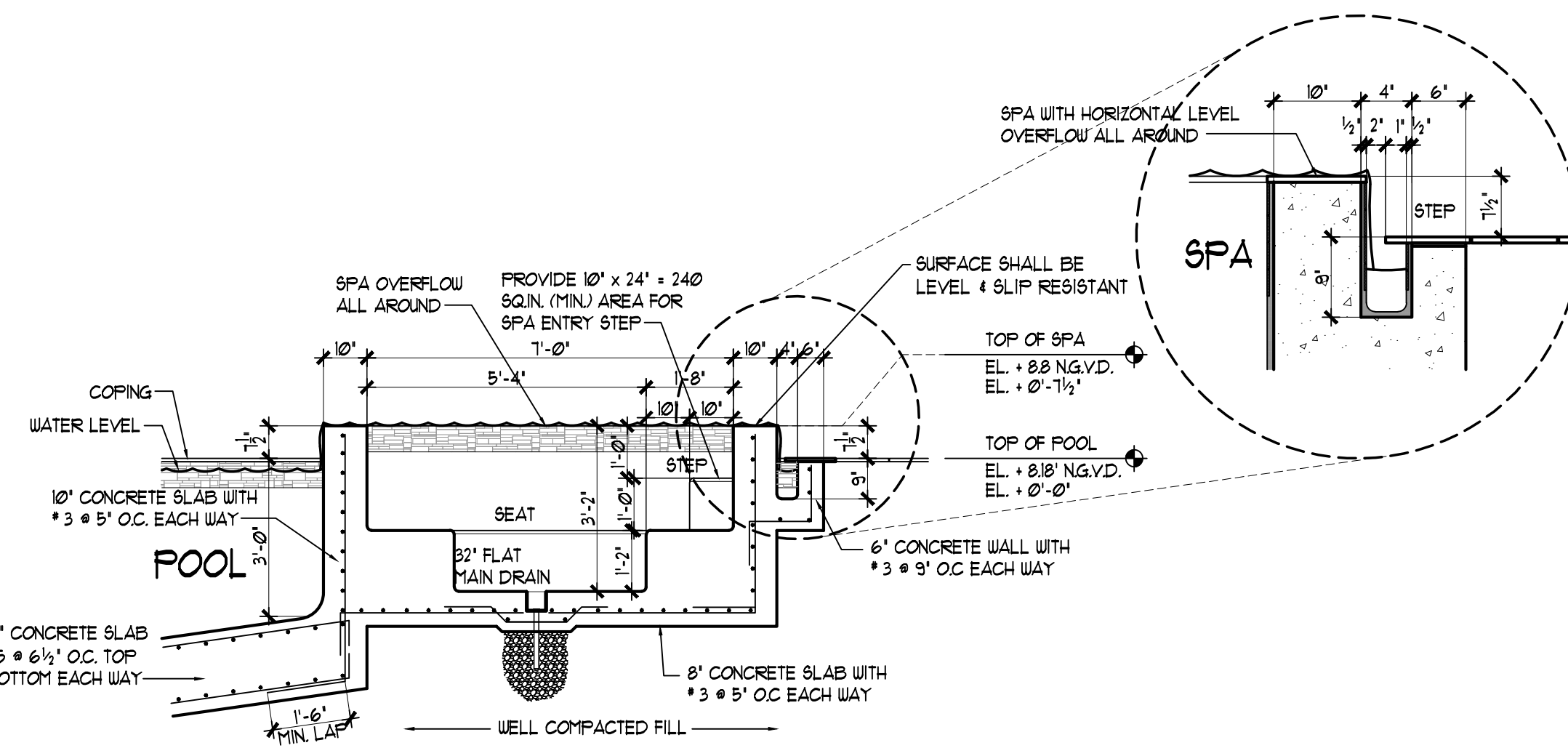
1804.3 Placement of backfill.
The excavation outside the foundation shall be backfilled with soil that is free of organic material, construction debris, cobbles and boulders or with a controlled low-strength material (CLSM). The backfill shall be placed in lifts and compacted in a manner that does not damage the foundation or the waterproofing or damp proofing material.
Exception: CLSM need not be compacted.
1804.4 Site grading.
The ground immediately adjacent to the foundation shall be sloped away from the building at a slope of not less than one unit vertical in 20 units horizontal (5-percent slope) for a minimum distance of 10 feet (3048 mm) measured perpendicular to the face of the wall. If physical obstructions or lot lines prohibit 10 feet (3048 mm) of horizontal distance, a 5-percent slope shall be provided to an approved alternative method of diverting water away from the foundation. Swales used for this purpose shall be sloped a minimum of 2 percent where located within 10 feet (3048 mm) of the building foundation. Impervious surfaces within 10 feet (3048 mm) of the building foundation shall be sloped a minimum of 2 percent away from the building, except as otherwise permitted in Section 1002.15, 1002.3 or 1002.6.1.
Exception: Where climatic or soil conditions warrant, the slope of the ground away from the building foundation shall be permitted to be reduced to not less than one unit vertical in 48 units horizontal (2-percent slope).

STRUCTURAL NOTES:

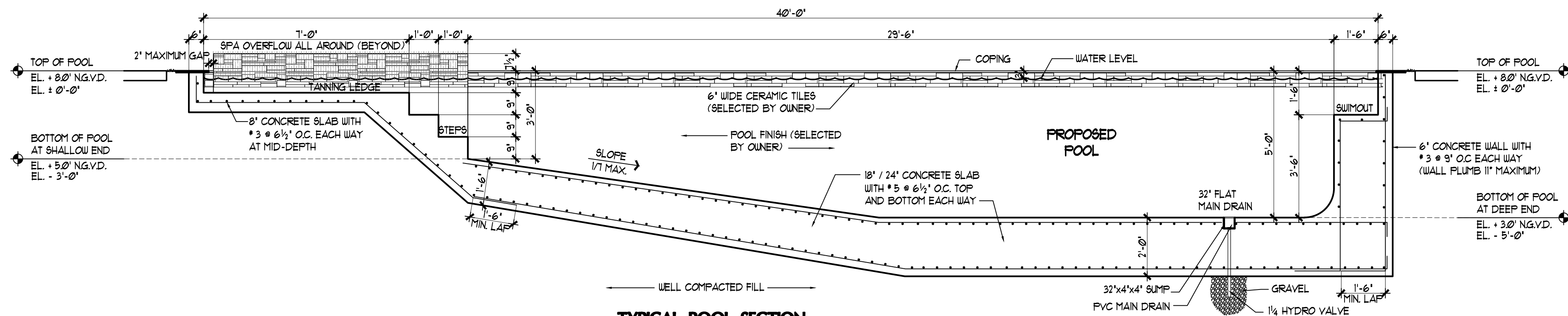
1. ALL POOL CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF $f'_c=4,000$ PSI.
2. ALL CONCRETE SHALL BE IN CONFORMANCE WITH 2020 FBC 7th EDITION AND ACI 308, 301, 341, 2011 EDITION, AND ASTM C94-18A AND PROPORTIONED FOR STRENGTH AND QUALITY REQUIREMENTS IN ACCORDANCE WITH ACI 308, SECTION 4.3 *PROPORTIONING ON THE BASIS OF FIELD EXPERIENCE
3. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF $F_y=60,000$ PSI.
4. ALL DECK CONCRETE (WHEN INSTALLED UNDER THESE PLANS) SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF $f'_c=2500$ PSI.
5. THE DESIGN OF THIS PROJECT HAS INCORPORATED A RATIONAL DESIGN APPROACH BASED ON ACCEPTED ENGINEERING PRINCIPLES.
6. ALL REINFORCING SPICES SHALL BE 18" IN LENGTH UNLESS OTHERWISE INDICATED ON THESE PLANS.

SOIL STATEMENT

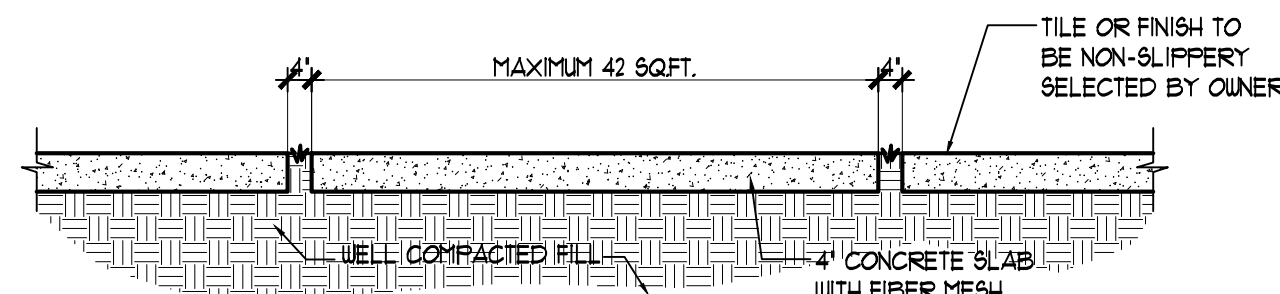
SOIL CONDITION AT SITE BY VISUAL INSPECTION INDICATES AN ALLOWABLE BEARING CAPACITY OF 2,000 P.S.F. (UNDISTURBED SAND AND/OR ROCK.)
UPON EXCAVATION OF POOL, PRIOR TO THE INSTALLATION OF POOL FOUNDATION SYSTEM THE BUILDING OFFICIAL SHALL BE PROVIDED WITH A STATEMENT FROM AN ARCHITECT OR ENGINEER TO CERTIFY THE PRESUMPTIVE SOIL BEARING CAPACITY.



TYPICAL POOL SECTION THRU SPA



TYPICAL POOL SECTION



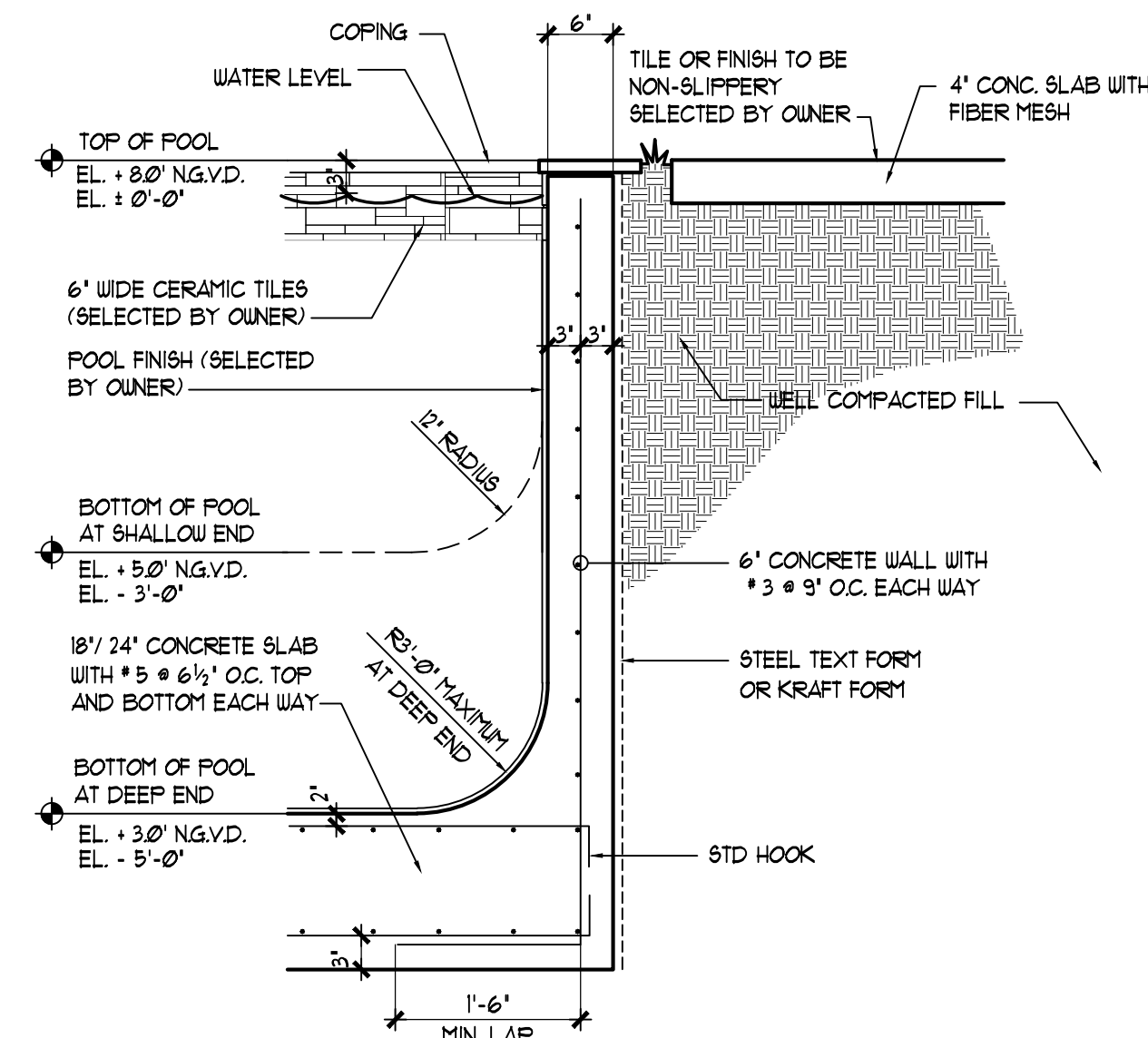
CONCRETE PATIO DETAIL

FLOOR AND WALL THICKNESS SCHEDULE

WALL THICKNESS	TOP	BOTTOM
PLACED CONCRETE	6"	6"
FLOOR THICKNESS	BOTTOM	
PLACED CONCRETE	18" / 24"	

FLOTATION ANALYSIS

WATER LEVEL ELEVATION (TOP OF WALL)	8.0'
POOL DEPTH (assume bottom of pool slab)	5.5'
LOW POINT POOL LEVEL	2.5'
BASE FLOOD ZONE "AE"	10.0'
F.C. DEPTH LEVEL	1.5'
LESS HYDROVERTICAL (1 1/4" VALVE)	-2.0'
HYDROSTATIC UPLIFT	5.5'
UPLIFT LOAD = UPLIFT x WL OF WATER x AREA = 5.5' x 62.4 PSF x 680 SQFT. = 233,316 PSF	
WL OF CONCRETE x AREA x SLAB THICKNESS + WEIGHT OF WALLS = 150 x 680 SQFT. x 2' + 33,000 + 231,000 PSF	
233,316 PSF < 231,000 PSF	
THEREFORE USE A MINIMUM OF 24" CONCRETE SLAB	
As min. = 0.002 x t (Slab thickness) x b (column of water)	
As min. = 0.002 x 24 x 12 = 0.51	
Spacing = Bar # x 5 (0.31) x 0.54 = 6 1/2"	
As min. = 0.51	
THEREFORE USE 24" CONCRETE SLAB WITH 5 # 6 1/2" O.C. TOP AND BOTTOM EACH WAY	



TYPICAL WALL SECTION

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REVISIONS	BY

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LICENSE
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STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Olga V. Cordero

PROPOSED POOL PLAN FOR:
Mr. Rick Alayon
LOCATED AT:
9875 SW 69th Court Miami, FL 33156

DRAWN BY: RMG
CHECKED BY: O.V.C.
DATE: April 24
SCALE: SHOWN
JOB NO: 24-054

SHEET
2
OF 3 SHEETS