

OUTDOOR SWIMMING BARRIER
COMPLYING WITH 8TH EDITION (2023) R4501.17.1.1 THROUGH R4501.17.1.14

R4501.17Residential swimming barrier requirement.
Residential swimming pools shall comply with Sections R4501.17.1 through R4501.17.3.

Exception: A swimming pool with an approved safety pool cover complying with ASTM F1346.

R4501.17.1Outdoor swimming pools.

The top of the barrier shall be at least 48 inches (1219 mm) above grade measured on the side of the barrier which faces away from the swimming pool. The maximum vertical clearance between grade and the bottom of the barrier shall be 2 inches (51 mm) measured on the side of the barrier which faces away from the swimming pool. Where the top of the pool structure is above grade the barrier may be at ground level or mounted on top of the pool structure. Where the barrier is mounted on top of the pool structure, the maximum vertical clearance between the top of the pool structure and the bottom of the barrier shall be 4 inches (102 mm).

R4501.17.1.2
The barrier may not have any gaps, openings, indentations, protrusions, or structural components that could allow a young child to crawl under, squeeze through, or climb over the barrier as herein described below. One end of a removable child barrier shall not be removable without the aid of tools. Openings in any barrier shall not allow passage of a 4-inch-diameter (102 mm) sphere.

R4501.17.1.3
Solid barriers which do not have openings shall not contain indentations or protrusions except for normal construction tolerances and tooled masonry joints.

R4501.17.1.4
Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is less than 45 inches (1143 mm), the horizontal members shall be located on the swimming pool side of the fence. Spacing between vertical members shall not exceed 13/4 inches (44 mm) in width. Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 13/4 inches (44 mm) in width.

R4501.17.1.5
Where the barrier is composed of horizontal and vertical members and the distance between the tops of the horizontal members is 45 inches (1143 mm) or more, spacing between vertical members shall not exceed 4 inches (102 mm). Where there are decorative cutouts within vertical members, spacing within the cutouts shall not exceed 13/4 inches (44 mm) in width.

R4501.17.1.6
Maximum mesh size for chain link fences shall be a 21/4-inch square (57 mm) unless the fence is provided with slats fastened at the top or bottom which reduce the openings to no more than 13/4 inches (44 mm).

R4501.17.1.7
Where the barrier is composed of diagonal members, the maximum opening formed by the diagonal members shall be no more than 13/4 inches (44 mm).

R4501.17.1.8
Access gates, when provided, shall be self-closing and shall comply with the requirements of Sections R4501.17.1.1 through R4501.17.1.7 and shall be equipped with a self-latching locking device located on the pool side of the gate. Where the device release is located no less than 54 inches (1372 mm) from the bottom of the gate, the device release mechanism may be located on either side of the gate and so placed that it cannot be reached by a young child over the top or through any opening or gap from the outside. Gates that provide access to the swimming pool must open outward away from the pool. The gates and barrier shall have no opening greater than 1/2 inch (12.7 mm) within 18 inches (457 mm) of the release mechanism.

R4501.17.1.9

Where a wall of a dwelling serves as part of the barrier, one of the following shall apply:
1.All doors and windows providing direct access from the home to the pool shall be equipped with an exit alarm complying with UL 2017 that has a minimum sound pressure rating of 85 dBA at 10 feet (3048 mm). Any deactivation switch shall be located at least 54 inches (1372 mm) above the threshold of the access. Separate alarms are not required for each door or window if sensors wired to a central alarm sound when contact is broken at any opening.
Exceptions:

a.Screened or protected windows having a bottom sill height of 48 inches (1219 mm) or more measured from the interior finished floor at the pool access level.

b.Windows facing the pool on floor above the first story.

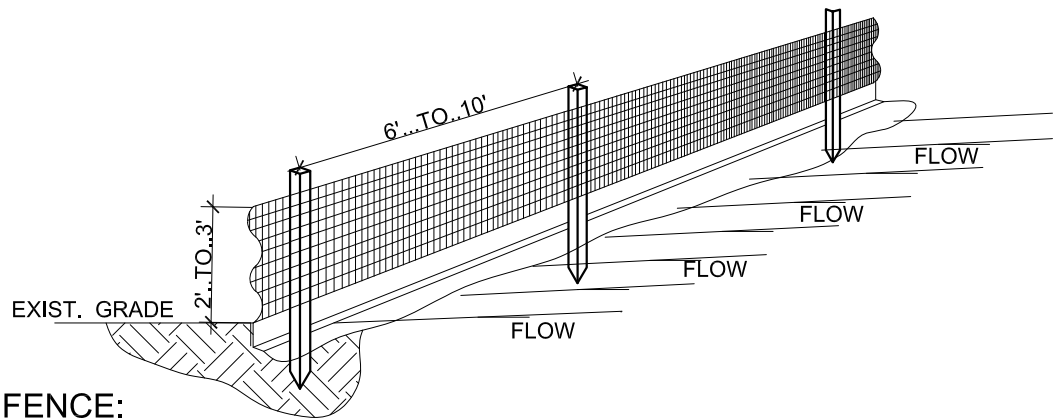
c.Screened or protected pass-through kitchen windows 42 inches (1067 mm) or higher with a counter beneath.

2.All doors providing direct access from the home to the pool must be equipped with a self-closing, self-latching device with positive mechanical latching/locking installed a minimum of 54 inches (1372 mm) above the threshold, which is approved by the authority having jurisdiction.

3.A swimming pool alarm that, when placed in a pool, sounds an alarm upon detection of an accidental or unauthorized entrance into the water. Such pool alarm must meet and be independently certified to ASTM Standard F2208, titled "Standard Safety Specification for Residential Pool Alarms," which includes surface motion, pressure, sonar, laser, and infrared alarms. For purposes of this paragraph, the term "swimming pool alarm" does not include any swimming protection alarm device designed for individual use, such as an alarm attached to a child that sounds when the child exceeds a certain distance or becomes submerged in water.

R4501.17.1.10

Where an aboveground pool structure is used as a barrier or where the barrier is mounted on top of the pool structure, and the means of access is a ladder or steps, the ladder or steps either shall be capable of being secured, locked or removed to prevent access, or the ladder or steps shall be surrounded by a barrier which meets the requirements of Sections R4501.17.1.1 through R4501.17.1.9 and Sections R4501.17.1.12 through R4501.17.1.14. When the ladder or steps are secured, locked or removed, any opening created shall not allow the passage of a 4-inch-diameter (102 mm) sphere.



SILTY FENCE:

A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. SOME SILT FENCE IS WIRE REINFORCED FOR SUPPORT IN ORDER TO SLOW THE VELOCITY OF WATER AND RETAIN SEDIMENT ONSITE.

STRUCTURE NOTES

ALL WORK SHALL COMPLY WITH THE F.B.C. 8TH EDITION (2023).
THE AMERICAN CONCRETE INSTITUTE ACI-318-19, ASCE-7-22 AND ALL OTHERS APPLICABLE CODES AND REGULATIONS.

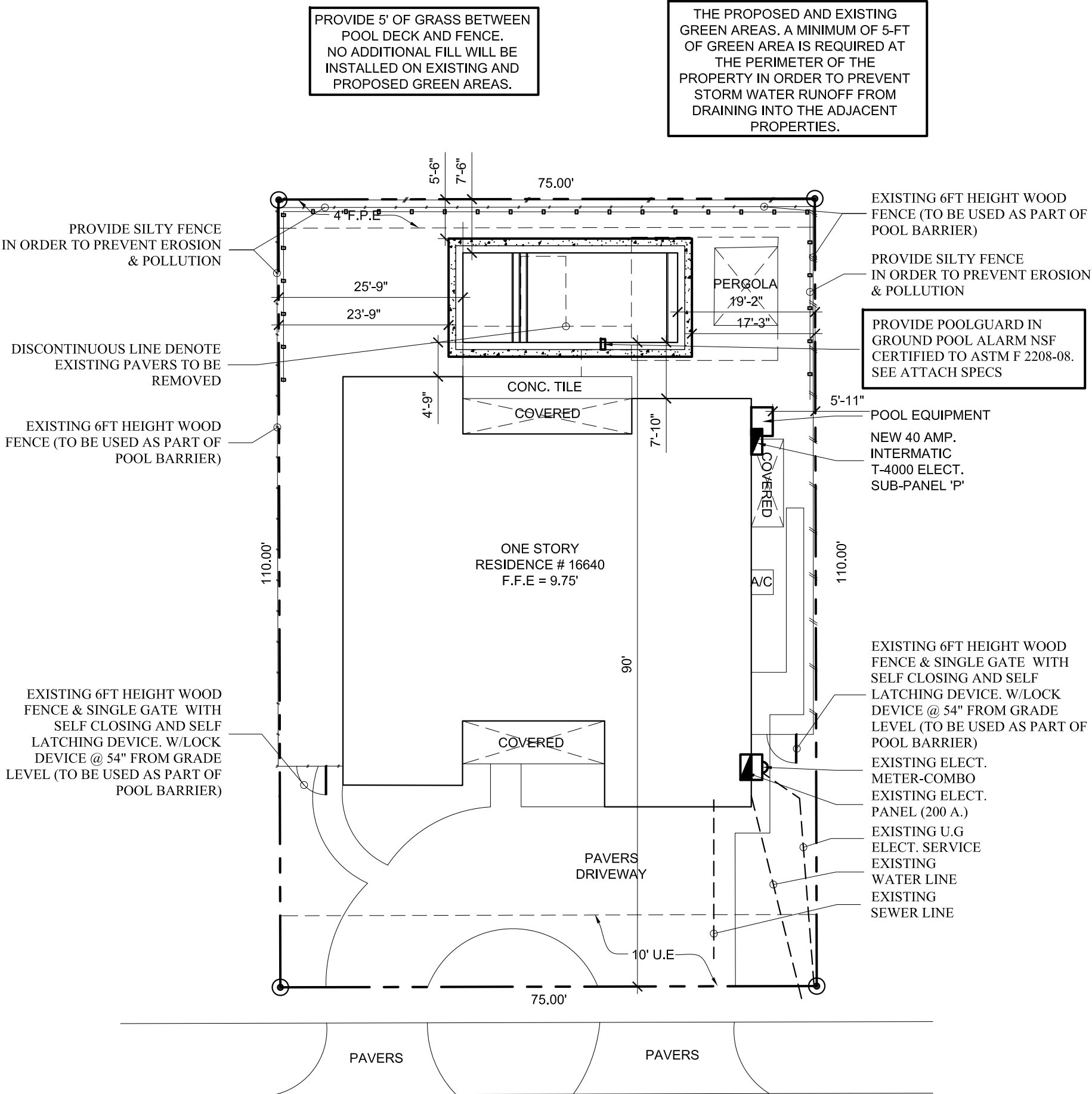
1. ALL POOL CONCRETE SHALL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
2. ALL REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH OF 60,000 PSI.
3. ALL DECK CONCRETE (WHEN INSTALLED UNDER THESE PLANS) SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2500 PSI.
4. THE DESIGN OF THIS PROJECT HAS INCORPORATED A RATIONAL DESIGN APPROACH BASED ON ACCEPTED ENGINEERING PRINCIPALS.
5. ALL REINFORCING STEEL SPLICES SHALL BE 18" IN LENGTH UNLESS OTHERWISE INDICATED ON THESE PLANS.
6. ALL REINFORCING STEEL BENDS SHALL BE BY HAND WITHOUT THE APPLICATION OF HEAT TO THE STEEL.

ELECTRICAL NOTES:

1. ALL POOL ELECTRICAL WORK SHALL BE ACCOMPLISHED IN COMPLIANCE WITH FBC 2023, 8TH EDITION,
2. ALL POOL ELECTRICAL WORKS, GROUNDING AND BONDING MUST BE CONFORM WITH THE NEC 2020, ART. 680
3. NO OVERHEAD WIRING SHALL BE LOCATED WITHIN 10'-0" OF POOL'S WATER EDGE.
4. SHOULD THE ELECTRICAL RISER DIAGRAM NOT ACCURATELY DEPICT REQUIRED WORK, A REVISED DRAWING SHALL BE SUB-MITTED AND APPROVED SHOWING EXPECTED AS BUILT CONFIGURATION WITH ADDITIONAL SERVICE AND LOAD CALCULATIONS, IF NECESSARY.
5. ALL ELECTRICAL EQUIPMENT NOT SUITABLE FOR EXPOSURE TO THE ELEMENTS SHALL BE ENCLOSED IN A WEATHERPROOF CONTAINER ALL PUMPS, HEATERS AND RELATED POOL EQUIPMENT SHOWN ON THESE PLANS ARE SATISFACTORY FOR EXPOSURE TO THE ELEMENTS.
6. RECEPTACLES SHALL BE LOCATED NOT LESS THAN 6 FEET (1829 MM) FROM THE INSIDE WALLS OF A STORABLE POOL. STORABLE SPA OR STORABLE HOT TUB, IN DETERMINING THESE DIMENSIONS, THE DISTANCE TO BE MEASURED SHALL BE THE SHORTEST PATH THAT THE SUPPLY CORD OF AN APPLIANCE CONNECTED TO THE RECEPTACLE WOULD FOLLOW WITHOUT PASSING THROUGH A FLOOR, WALL, CEILING, DOORWAY WITH HINGED OR SLIDING DOOR, WINDOW OPENING, OR OTHER EFFECTIVE PERMANENT BARRIER. (680.34)

PLUMBING NOTES

1. ALL POOL EQUIPMENT PIPING SHALL BE SCHEDULE 40, PVC-PW, NON-THREADED, NSF APPROVED SUPPORTED CONTINUOUSLY ON GROUND OR ON MAXIMUM 4'-0" CENTERS WITH CLEVIS HANGERS.
2. ALL SUCTION PIPING SHALL BE 2" DIAMETER AND ALL PRESSURE PIPING 1 1/2" DIAMETER UNLESS OTHERWISE NOTED.
3. POOL WATER DISPOSAL SHALL BE IN ACCORDANCE WITH LOCAL BUILDING DEPARTMENT REQUIREMENTS.
4. ANTI VORTEX MAINDRAINS SHALL HAVE ITS PLATE SECURELY FASTENED WITH TAMPERPROOF SCREWS.
5. POOL VACUUM SHALL HAVE SPRING LOADED CAP IN ACCORDANCE WITH THE FLORIDA BUILDING CODE.
6. ALL PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE-PLUMBING SECTION 309 AS IT PERTAINS TO BUOYANCY.
7. THE WATER VELOCITY THOUGH ALL SUCTION PIPING SHALL BE LESS THAN 8 FEET PER SECOND.
8. THE WATER VELOCITY THROUGH ALL PRESSURE PIPING SHALL BE LESS THAN 10 FEET PER SECOND.
9. ALL PIPING SHALL BE SUITABLE FOR EXPOSURE TO ULTRA VIOLET RADIATION AND NORMAL OPERATING TEMPERATURES.



N.W. 86th COURT

LEGAL: EIGHTH ADDN TO ROYAL
OAKS PB 136-58
LOT 73 BLK 13
LOT SIZE 8250 SQ FT
F/A/U 30-2015-001-0380 THRU 0410
OR 19045-1154 0300 1
F/A/U 30-2015-017-0390

SITE PLAN

SCALE:1/16"=1'-0"



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AND SEALED BY
CARLOS LOPEZ
REYES P.E. 94975.
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THIS DOCUMENT
ARE NOT
CONSIDERED
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AND THE SIGNATURE
MUST BE VERIFIED
ON ANY ELECTRONIC
COPIES.

PROJECT: NEW SWIMMING POOL

OWNER: CLARA P MARTINEZ LE

ADDRESS: 16640 NW 86 CT

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MIAMI, FLORIDA
33186 (786) 448-0384

SIGN & SEAL

REVISIONS	NO.	DATE	BY	CHECKED	DATE	BY	CHECKED

DRAWING No:

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