

CHILD FENCE FOR POOL BARRIER

RESIDENTIAL SWIMMING POOLS SHALL BE PROVIDED WITH A BARRIER COMPLYING WITH SEVENTH EDITION OF 2020 FBC. R4501.17.1 THROUGH R4501.17.1.14

—REMOVABLE CHILD BARRIERS MUST BE PLACED SUFFICIENTLY AWAY FROM THE WATER'S EDGE TO PREVENT A YOUNG CHILD OR MEDICALLY FRAIL ELDERLY PERSON WHO MAY MANAGE TO PENETRATE THE BARRIER FROM IMMEDIATELY FALLING INTO THE WATER. SUFFICIENTLY AWAY FROM THE WATER'S EDGE SHALL MEAN NO LESS THAN 20 INCHES (508 MM) FROM THE BARRIER TO THE WATER'S EDGE. DWELLING OR NONDWELLING WALLS INCLUDING SCREEN ENCLOSURES, WHEN USED AS PART OR ALL OF THE "BARRIER" AND MEETING THE OTHER BARRIER REQUIREMENTS, MAY BE AS CLOSE TO THE WATER'S EDGE AS PERMITTED BY THIS CODE.

—A MESH SAFETY BARRIER MEETING THE REQUIREMENTS OF SECTION R4501.17 AND THE FOLLOWING MINIMUM REQUIREMENTS SHALL BE CONSIDERED:

1. INDIVIDUAL COMPONENT VERTICAL SUPPORT POSTS SHALL BE CAPABLE OF RESISTING A MINIMUM OF 52 POUNDS (229 N) OF HORIZONTAL FORCE PRIOR TO BREAKAGE WHEN MEASURED AT A 36-INCH (914 MM) HEIGHT ABOVE GRADE. VERTICAL POSTS OF THE CHILD MESH SAFETY BARRIER SHALL EXTEND A MINIMUM OF 3 INCHES (76 MM) BELOW DECK LEVEL AND SHALL BE SPACED NO GREATER THAN 36 INCHES (914 MM) APART.

2. THE MESH UTILIZED IN THE BARRIER SHALL HAVE A MINIMUM TENSILE STRENGTH ACCORDING TO ASTM D 5034 OF 100 POUNDS PER FOOT (149 KG/M), AND A MINIMUM BALL BURST STRENGTH ACCORDING TO ASTM D 3787 OF 150 POUNDS PER FOOT (223 KG/M). THE MESH SHALL NOT BE CAPABLE OF DEFORMATION SUCH THAT A 1/4 -INCH (6.4 MM) ROUND OBJECT COULD PASS THROUGH THE MESH.

THE MESH SHALL RECEIVE A DESCRIPTIVE PERFORMANCE RATING OF NO LESS THAN "TRACE DISCOLORATION" OR "SLIGHT DISCOLORATION" WHEN TESTED ACCORDING TO ASTM G 53 (WEATHERABILITY, 1,200 HOURS).

3. WHEN USING A MOLDING STRIP TO ATTACH THE MESH TO THE VERTICAL POSTS, THIS STRIP SHALL CONTAIN, AT A MINIMUM 7/8 BY 1/2- INCH (12.7 MM) SCREWS WITH A MINIMUM OF TWO SCREWS AT THE TOP AND TWO AT THE BOTTOM WITH THE REMAINING SCREWS SPACED A MAXIMUM OF 6 INCHES (152 MM) APART ON CENTER.

4. PATIO DECK SLEEVES (VERTICAL POST RECEPTACLES) PLACED INSIDE THE PATIO SURFACE SHALL BE OF A NONCONDUCTIVE MATERIAL.

5. A LATCHING DEVICE SHALL ATTACH EACH BARRIER SECTION AT A HEIGHT NO LOWER THAN 45 INCHES (11 613 MM) ABOVE GRADE. COMMON LATCHING DEVICES THAT INCLUDE, BUT ARE NOT LIMITED TO, DEVICES THAT PROVIDE THE SECURITY EQUAL TO OR GREATER THAN THAT OF A HOOK AND EYE TYPE LATCH INCORPORATING A SPRING ACTUATED RETAINING LEVER (COMMONLY REFERRED TO AS A SAFETY GATE HOOK).

6. THE BOTTOM OF THE CHILD MESH SAFETY BARRIER SHALL NOT BE MORE THAN 1 INCH (25 MM) ABOVE THE DECK OR INSTALLED SURFACE (GRADE).

7. THE HEIGHT OF POOL BARRIER (48" MINIMUM ABOVE GRADE OR DECK) —FBC R 4501.17.

8. THE POOL MESH BARRIER SHALL BE LOCATED MINIMUM 20" AWAY FROM WATER'S EDGE (AND 36" FROM EGRESS WINDOWS OR DOORS).

9. OPENINGS IN BARRIER SHALL NOT ALLOW THE PASSAGE OF A 4" DIAMETER SPHERE —FBC R4501.17.1.2.

10. GATES AND BARRIER SHALL HAVE NO OPENING GREATER THAN 1/2" WITHIN 18" OF THE RELEASE MECHANISM —FBC R4501.17.1.8.

11. ONE END OF A REMOVABLE CHILD BARRIER SHALL NOT BE REMOVABLE WITHOUT THE AID OF TOOLS —FBC R4501.17.1.2.

SOIL STATEMENT:

A VISUAL INSPECTION ON THE JOB SITE INDICATES UNDISTURBED SAND WITH A PRESUMPTIVE BEARING VALUE OF 2,000 P.S.F. AS PER FBC 1806.02 MEETING MINIMUM REQUIREMENT. SHOULD OTHER CONDITION OR MATERIALS BE ENCOUNTERED DURING EXCAVATION, THE ENGINEER MUST BE NOTIFIED BEFORE CONTINUING WITH THE WORK. A SIGN AND SEAL, LETTERED BY A PROFESSIONAL ENGINEER, MUST BE SUBMITTED TO THE BUILDING OFFICIAL ATTESTING THAT THE SITE CONDITION ARE SIMILAR TO THOSE UPON WHICH THE DESIGN IS BASED. REQUIRED BEARING CAPACITY FOR STRUCTURE IS 2000 P.S.F.

SITE CALCULATIONS (IN SQ. FT.)	
LOT AREA	9353 = 100%
PAVERS DRIVEWAY, PORCH,	580
LOOSE STEPPING STONES, PAVERS	318
GENERATOR, PROPANE TANKS	64
STAMPED CONC., TRELLIS	555
HOUSE	2406
POOL EQ, HEAT PUMP, AC	22
NEW POOL WITH COPING	384
TOTAL IMPERVIOUS AREA	4329 = 46.3%
TOTAL GREEN AREA	5024 = 53.7%

NOTE: POOL CONTRACTOR OR OWNER MUST FOLLOW THE DESIGN OF THIS POOL AS PER APPROVED PLANS. IF DURING CONSTRUCTION THE OWNER OR CONTRACTORS NEED TO MAKE SOME CHANGES TO THE APPROVED DESIGN, ALL WORK MUST BE STOPPED AND THE ENGINEER ON RECORD MUST BE NOTIFIED IN WRITING ANY CHANGES DONE TO THE DESIGN DURING CONSTRUCTION WITHOUT APPROVAL OF ENGINEER AND MUNICIPALITY BUILDING DEPARTMENT IS SOLELY RESPONSIBILITY OF POOL CONTRACTOR OR OWNER.

NOTE:

—THIS PROJECT HAS BEEN DESIGNED UTILIZING THE 2020, EDITION 7 OF THE FLORIDA BUILDING CODE AND 2017 EDITION OF THE NEC CODE.

—DESIGN, CONSTRUCTION AND WORKMANSHIP SHALL BE IN CONFORMITY WITH THE REQUIREMENTS OF ANSI/APSP/ICC 3, ANSI/APSP/ICC 4, ANSI/APSP/ICC 5, ANSI/APSP/ICC 6, AND ANSI/APSP/ICC 7.

LEGAL DESCRIPTION:

LOT 46, IN BLOCK 1, PRIMAVERA FIRST ADDITION, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 154, PAGE 20, OF THE PUBLIC RECORDS OF MIAMI-DADE COUNTY, FLORIDA.

CONTINGENCY NOTES:

CONTRACTOR MUST VERIFY ALL DIMENSION AT SITE OF WORK IF ANY DISCREPANCIES ARE FOUND, STOP WORKING IMMEDIATELY AND NOTIFY OWNER OR ENGINEER.

1.—ALL POOL CONSTRUCTION SHALL CONFORM TO LOCAL AND STATE BUILDING CODE AND REQUIREMENTS.

2.—CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES FROM DAMAGE AND/OR FAILURE BY ANY ACCEPTABLE METHOD, AS REQUIRED.

3.—THE DESIGN ENGINEER ASSUMES NO RESPONSIBILITY FOR THE SAFETY OR ADEQUACY OF ANY EXISTING STRUCTURE.

4.—THE DESIGNER IS NOT RESPONSIBLE FOR THE POOL CONSTRUCTION IN EASEMENT OR REQUIRED SETBACK AREAS. THE POOL CONTRACTOR/OWNER SHALL VERIFY THE LAYOUT OF THE POOL AND ITS DIMENSIONS.

5.—SHOULD THE ELECTRICAL RISER DIAGRAM NOT ACCURATELY DEPICT REQUIRED WORK, A REVISED DRAWING SHALL BE SUBMITTED AND APPROVED SHOWING EXPECTED AS BUILT CONFIGURATION WITH ADDITIONAL SERVICE AND LOAD CALCULATIONS, IF NECESSARY.

6.—THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL UTILITIES IN RELATION TO THE POOL AND ITS EQUIPMENT AND SHALL INSURE MINIMUM CLEARANCE REQUIREMENTS IN ACCORDANCE WITH THE LOCAL.

GENERAL NOTES:

1. CONTRACTOR WILL BE RESPONSIBLE FOR SHORING AND STABILITY OF EXISTING STRUCTURE.

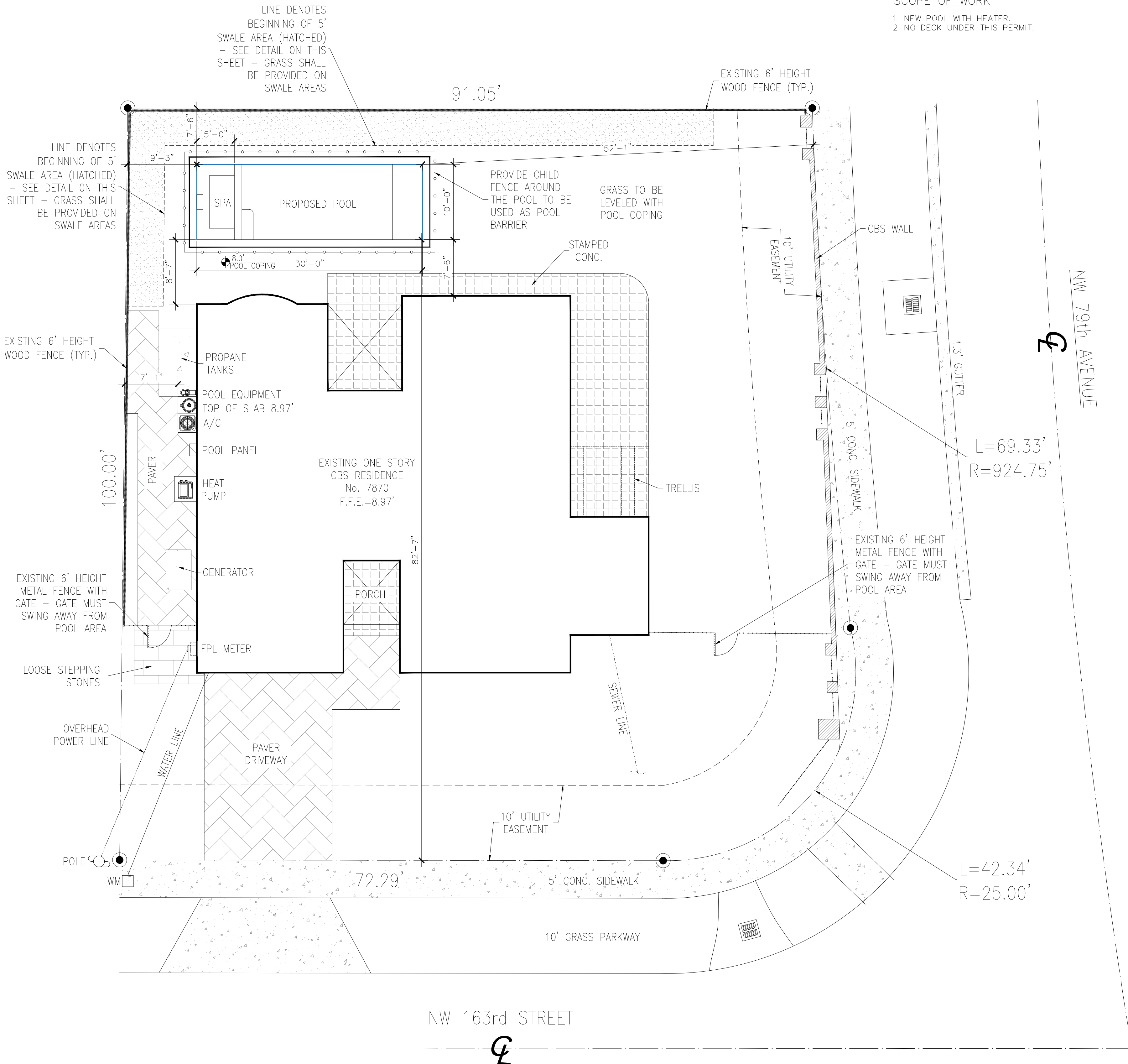
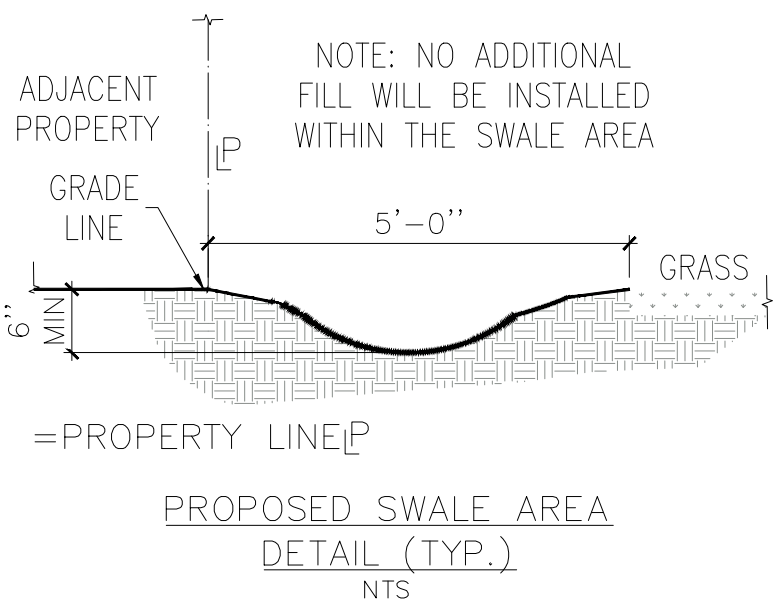
2. POOL CONTRACTOR WILL BE RESPONSIBLE FOR DEWATERING AS REQUIRED TO PERFORM THE SPECIFIED WORK.

3. ALL COLD JOINTS SHALL BE TREATED BY ROUTING AND SEALING WITH POLYSULPHIDE SEALANT. FOR COLD JOINTS APPLY THREE COATS OF BASECRETE WATERPROOFING WITH REINFORCING MESH. THE BASECRETE WATERPROOFING CAN BE APPLIED ON THE WALLS WITHOUT REINFORCING MESH IN ACCORDANCE WITH STANDARD RECOMMENDATIONS ISSUED BY BASECRETE. PROVIDE BASECRETE WATERPROOFING ON THE SLAB WITH MESH AND UPTURN 6" ON THE WALLS TO COVER THE JOINT BETWEEN SLAB AND WALL PROVIDE POLYSULPHIDE SEALANT AT THE JOINT PRIOR TO UPTURNING THE REPRESENTATIVE FOR ADDITIONAL DETAILS.

4. AFTER COMPLETION OF BASECRETE WATERPROOFING APPLY DIAMOND BRITE FINISHES IN STRICT ACCORDANCE WITH PRODUCT MANUFACTURE'S SPECIFICATIONS TO PROVIDE WATERPROOFING AND FINISH SYSTEM WITH A WARRANTY, AT THE ENTIRE INTERIOR PORTION OF THE SWIMMING POOL SHELL. CONTRACTOR SHOULD BE REQUIRED TO MIX THE BASECRETE WATERPROOFING AND DIAMOND BRITE PLASTER WITH ADMIXTURES IN ACCORDANCE WITH THE REQUIREMENTS OF THE PRODUCT MANUFACTURERS. THE BASECRETE AND DIAMOND BRITE WILL BE APPLIED ON THE ENTIRE POOL SHELL (UPPER AND LOWER PORTIONS).

5. A MINIMUM OF TWO 48-HOUR LEAK TESTS WILL BE CONDUCTED. FIRST UPON COMPLETION OF THE STRUCTURAL COLD JOINT REPAIRS AND SECOND UPON COMPLETION OF THE WATERPROOFING SYSTEM, IF NECESSARY. IF LEAKS OR WATERPROOFING DEFICIENCIES ARE DETECTED, THE CONTRACTOR TO CONTACT AND INFORM THE E.O.R.

6. CONTRACTOR SHALL VERIFY ALL SETBACKS FROM PROPERTY LINES AND STRUCTURES PRIOR TO EXCAVATIONS. SHOULD ANY SETBACKS BE LESS THAN THE MINIMUM REQUIREMENTS, EITHER BY OWNER OR BUILDING OFFICIAL, THE ENGINEER SHOULD BE NOTIFIED.



SCOPE OF WORK

1. NEW POOL WITH HEATER.
2. NO DECK UNDER THIS PERMIT.



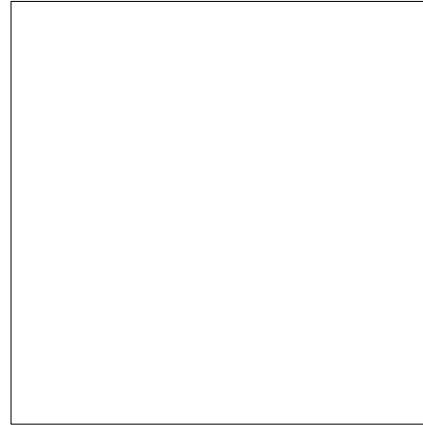
REVISIONS

NUMBER	DATE

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PROPOSED SWIMMING POOL FOR:
DANIEL FORNES
7870 NW 163rd STREET
MIAMI LAKES, FL 33016

JOB No:
DESIGNED BY: CLM
CHECKED BY: CLM
SCALE: AS SHOWN
DATE: 08/05/2023

1

1 OF 2

SITE PLAN
SCALE: 1/8"=1'-0"

