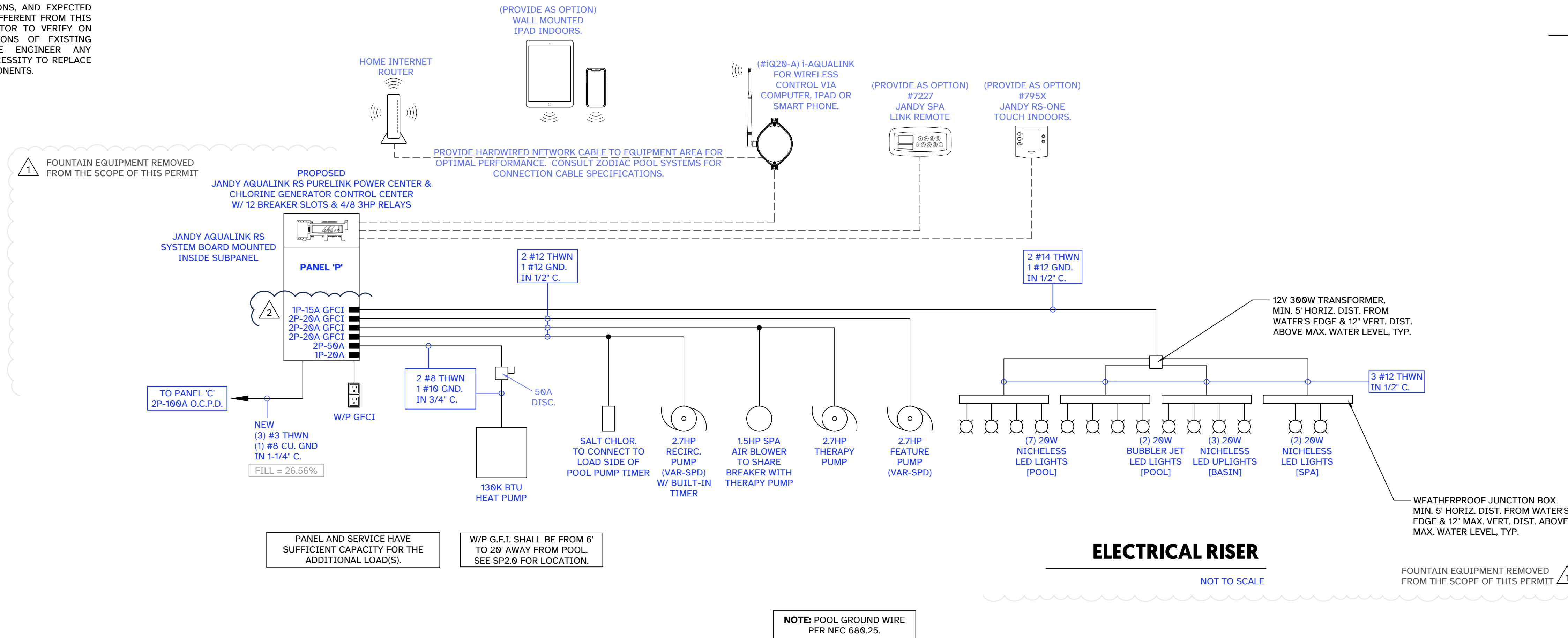


1/4" = 1'-0"
CUT ON DASH LINE FOR SCALE RULER



SCAN QR CODE
FOR ALL RFIS

NOTE: PRIOR TO ELECTRICAL ROUGH, ELECTRICAL CONTRACTOR SHALL SUBMIT A REVISION TO THIS DRAWING SHOWING EXISTING SERVICE WITH ADDITIONAL LOADS, CALCULATIONS, AND EXPECTED AS BUILT CONFIGURATION, IF DIFFERENT FROM THIS DRAWING. ELECTRICAL CONTRACTOR TO VERIFY ON FIELD CAPACITY AND CONDITIONS OF EXISTING SERVICE, REPORTING TO THE ENGINEER ANY INCONSISTENCY AND/OR THE NECESSITY TO REPLACE ANY EXISTING ELECTRICAL COMPONENTS.



POOL EQUIPMENT LOAD CALCULATION

NICHELESS LIGHTS	14	280	WATTS
RECIRCULATION PUMP	1	2,550	WATTS
SALT CHLORINATOR	1	300	WATTS
FEATURE PUMP	1	2,550	WATTS
THERAPY PUMP	1	2,300	WATTS
AIR BLOWER	1	1,200	WATTS
HEAT PUMP	1	6,340	WATTS
SUBTOTAL		15,520	WATTS
TOTAL DEMAND		64.7	AMPS

FOUNTAIN EQUIPMENT REMOVED FROM THE SCOPE OF THIS PERMIT

FOUNTAIN EQUIPMENT REMOVED FROM THE SCOPE OF THIS PERMIT

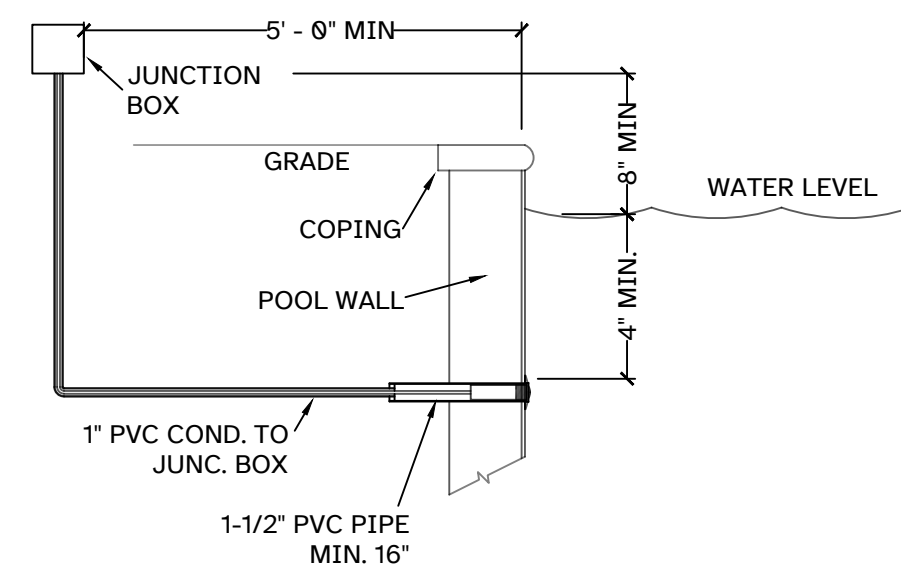
ELECTRICAL RISER

NOT TO SCALE

NOTE: POOL GROUND WIRE PER NEC 680.25.

FBC E3607.3.1

AN EQUIPMENT GROUNDING CONDUCTOR AS DESCRIBED IN SECTION E3908 SHALL BE RUN WITH THE SUPPLY CONDUCTORS AND CONNECTED TO THE BUILDING OR STRUCTURE DISCONNECTING MEANS AND TO THE GROUNDING ELECTRODE(S). THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE USED FOR GROUNDING OR BONDING OF EQUIPMENT, STRUCTURES OR FRAMES REQUIRED TO BE GROUNDED OR BONDED. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED IN ACCORDANCE WITH SECTION E3908.12. ANY INSTALLED GROUNDED CONDUCTOR SHALL NOT BE CONNECTED TO THE EQUIPMENT GROUNDING CONDUCTOR OR TO THE GROUNDING ELECTRODE(S). [250.32(B) AND TABLE 250.122]



NICHELESS LIGHT DETAIL

NOT TO SCALE

ELECTRICAL

- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE F.B.C. 2023, 8TH EDITION AND ARTICLE 680 N.E.C. 2020 EDITION. ALL BOND WIRES SHALL BE PROTECTED WITH APPROVED MATERIAL. THE CONTRACTOR SHALL INSURE THAT AN ELECTRICAL BONDING INSPECTION IS CALLED FOR AND APPROVED PRIOR TO PLACEMENT OF CONCRETE OVER THE BOND WIRE CONNECTIONS. CONNECTIONS DIRECTLY FROM THE POOL LIGHT TO A TRANSFORMER BOX IS PROHIBITED. ALL METAL PARTS IN THE POOL AREA, IN ADDITION TO ALL METAL DOORS, WINDOWS, SCREENED ENCLOSURES, OR OTHER ITEMS CONTAINING METAL WITHIN A DISTANCE OF 5 FEET FROM THE POOL WATERS EDGE SHALL ALSO BE GROUNDED.
- POOL EQUIPMENT TO BE GROUNDED TO COMMON BONDING GRID CONSISTING OF (1) #8 CONTINUOUS COPPER WIRE LOOPED AROUND POOL PERIMETER.
- LOOP SHALL BE GROUNDED TO PANEL VIA POOL WALL STEEL, DECK REINFORCING, POOL EQUIPMENT, AND PUMP MOTOR CASING, PER NEC 680.25.
- PROVIDE GROUND WIRE SYSTEMS LOOP WITH #8 COPPER WIRE FOR THE POOL DECK WIRE MESH AND STRUCTURAL STEEL.
- ALL WIRING SHALL BE COPPER THWN.
- POOL PUMP REQUIRES OVERLOAD PROTECTION PER NEC 430.32.
- COMPLY WITH FBC E403.12 AND NEC 430.32.

EQUIPOTENTIAL BONDING

ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE F.B.C. 2023, 8TH EDITION AND ARTICLE 680 N.E.C. 2020 EDITION.

THIS GRID SHALL FOLLOW THE CONTOUR OF THE POOL AND EXTEND UNDER PAVED WALKING AREAS AT LEAST 3 FEET HORIZONTALLY FROM THE INSIDE EDGE OF THE POOL.

- STRUCTURAL REINFORCING STEEL WHERE REINFORCING RODS ARE BONDED TOGETHER BY THE USUAL STEEL TIE WIRES.
- THE WALL OF A BOLTED OR WELDED METAL POOL
- #8 BARE SOLID COPPER CONDUCTOR BONDED WITH APPROVED CONNECTIONS
- THE GRID SHALL FOLLOW THE CONTOUR OF A POOL IN A 12' x 12' PATTERN BONDED AT ALL POINTS OF CROSSING
- THE GRID SHALL BE SECURED WITHIN OR UNDER THE POOL AND DECK MEDIA

NOTE: ALL METAL PARTS SHALL BE BONDED AS PER N.E.C. 680.26 (B) BONDING GRIDS ARE NOT REQUIRED:

- UNDER NON-PAVED WALKING AREAS
- UNDER WOOD OR OTHER NON-CONDUCTIVE DECKING
- WHERE FENCES OR OTHER BARRIERS PREVENT ONE FROM STANDING ON THE GROUND TOUCHING THE WATER WITHIN THE POOL

COMMON BONDING GRID

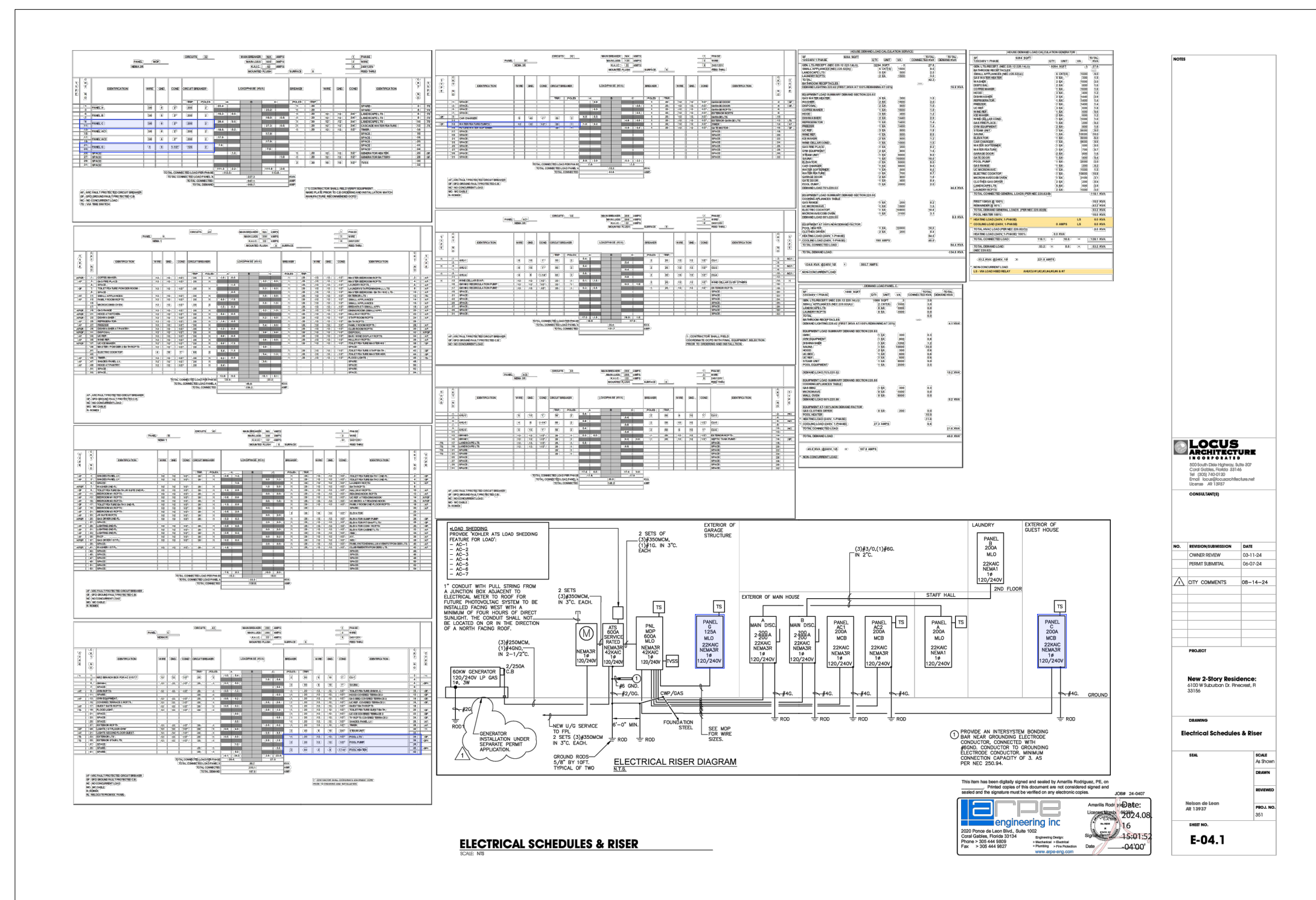
NOT TO SCALE

POOL BOND SCHEMATIC

NOT TO SCALE

REFERENCE NOTE: COMPLETE ELECTRICAL RISER & LOAD ANALYSIS ARE PROVIDED BY THE MASTER PERMIT DRAWINGS.

ANY ERRORS OR OMISSIONS IN THE EXTERNAL REFERENCE DRAWINGS ARE NOT THE RESPONSIBILITY OF THE POOL ENGINEER.



MASTER ELECTRICAL PLAN REFERENCE

NOT TO SCALE

DIMENSION VERIFICATION: THE CONTRACTOR IS REQUIRED TO CONSULT THE PROJECT ENGINEER FOR ANY NECESSARY DIMENSIONS INSTEAD OF RELYING SCALING DRAWINGS. SCALING MAY RESULT IN INACCURACIES AND IS NOT PERMITTED.

FIELD CONDITION DISCREPANCIES: SHOULD FIELD CONDITIONS DEViate FROM THE DIMENSIONS SPECIFIED ON THE DRAWINGS, THE CONTRACTOR MUST PROMPTLY INFORM THE PROJECT ENGINEER FOR RESOLUTION AND CLARIFICATION.

FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY RESULT IN CONSTRUCTION DELAYS AND ASSOCIATED COSTS.

ALL CODES TO COMPLY WITH
F.B.C. 2023, 8TH EDITION

PLOT DATE -

3 March 2026



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RESIDENCE

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6100 WEST SUBURBAN DRIVE
PINECREST, FL 33156

REVISIONS

BLDG DEPT COMMENTS	01.09.26
BLDG DEPT COMMENTS	02.04.26

NOTES

1.

PROJECT NORTH



SCALE NOT TO SCALE

ELECTRIC PLAN

SP5.0

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