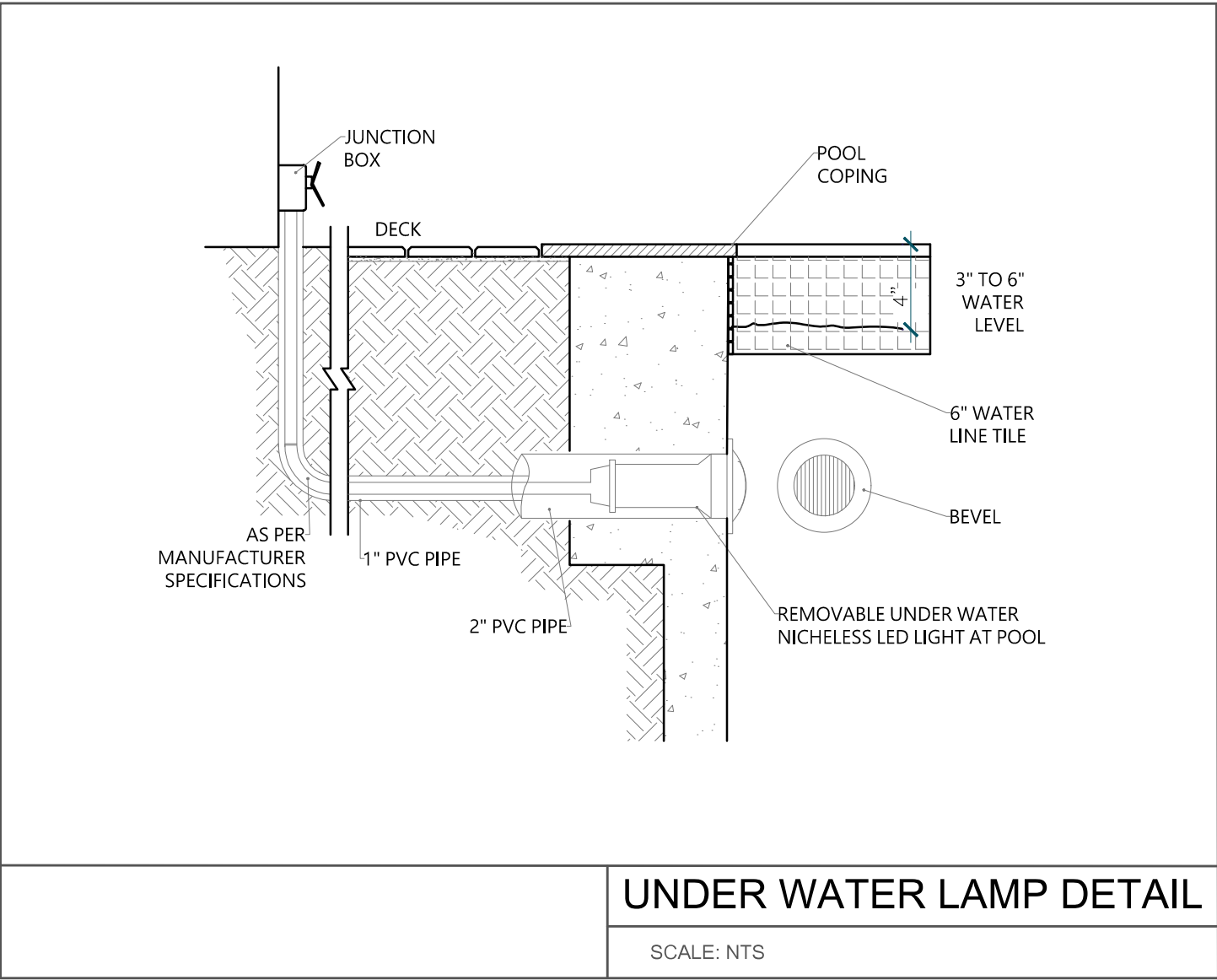
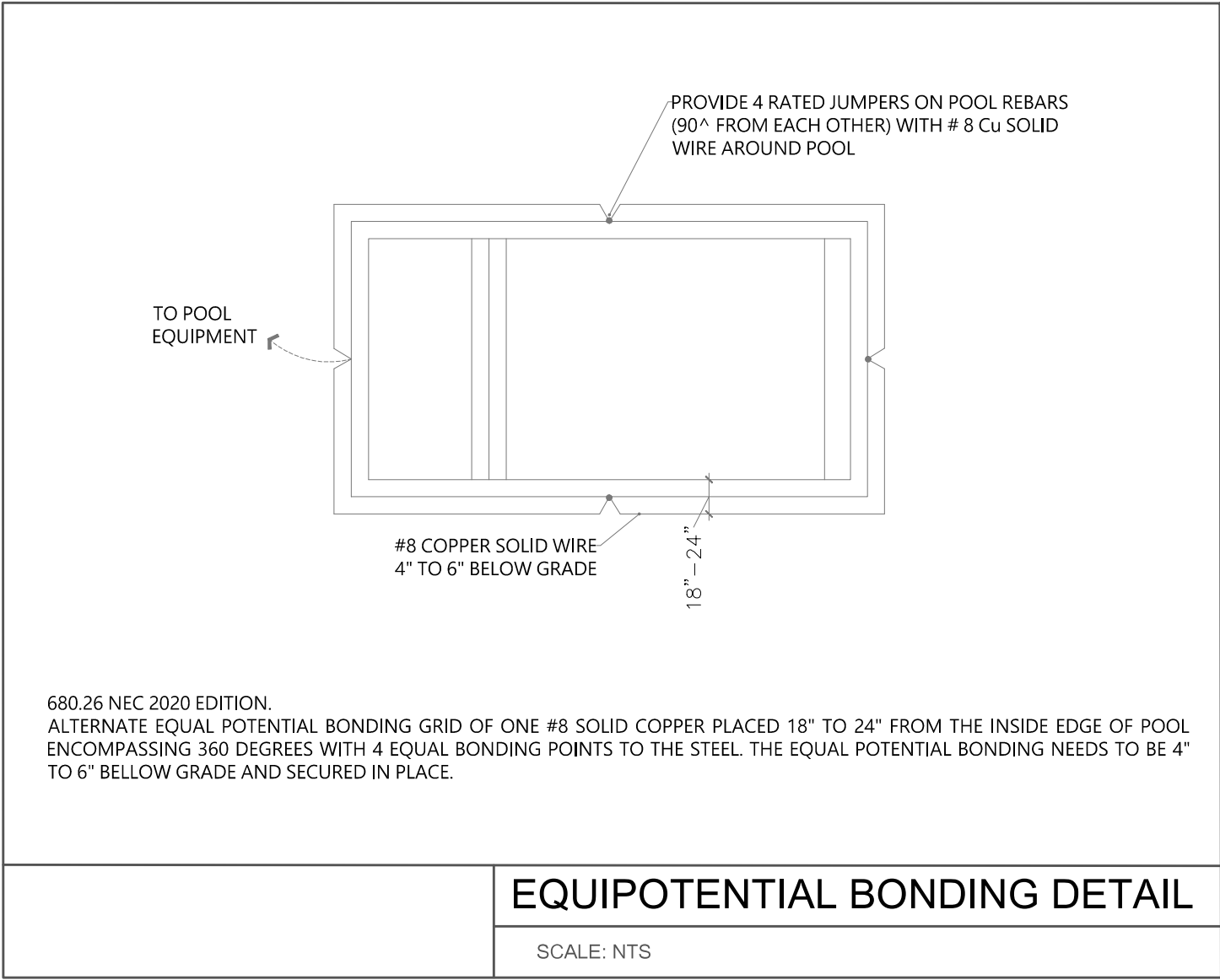
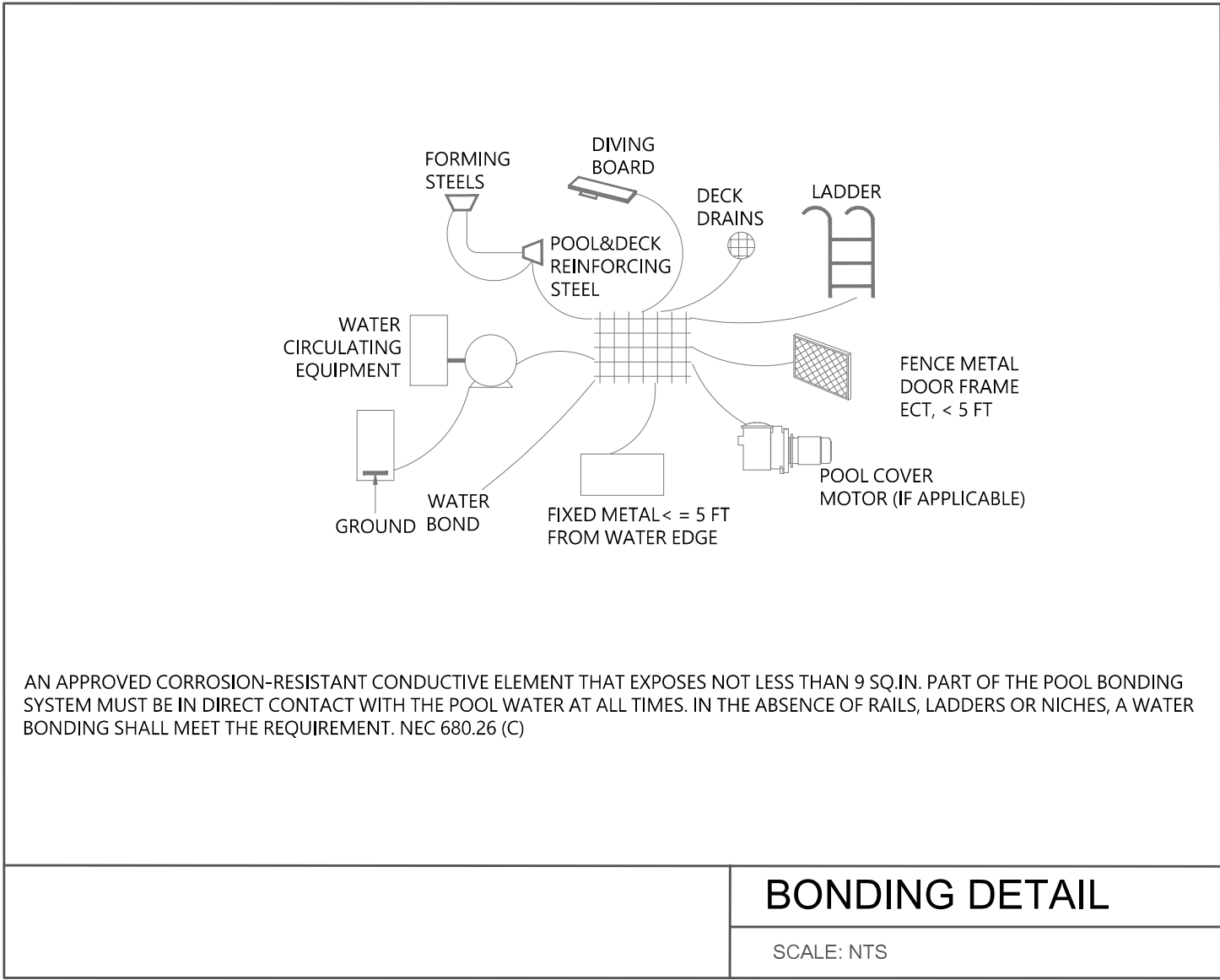




PROPERTY DESCRIPTION

ADDRESS: 7725 SW 114TH ST., MIAMI, FL 33156
FOLIO/ ID: 03-4132-005-1780
ZONING CODE: SFR-SINGLE-FAMILY RESIDENTIAL DISTRICT

LEGAL DESCRIPTION

10 55 40
SUNLAND ESTS 1ST ADD PB 50-58
LOT 14 BLK 14
LOT SIZE IRREGULAR
F/A/U 30-5010-002-1030

FLOOD ZONE INFORMATION

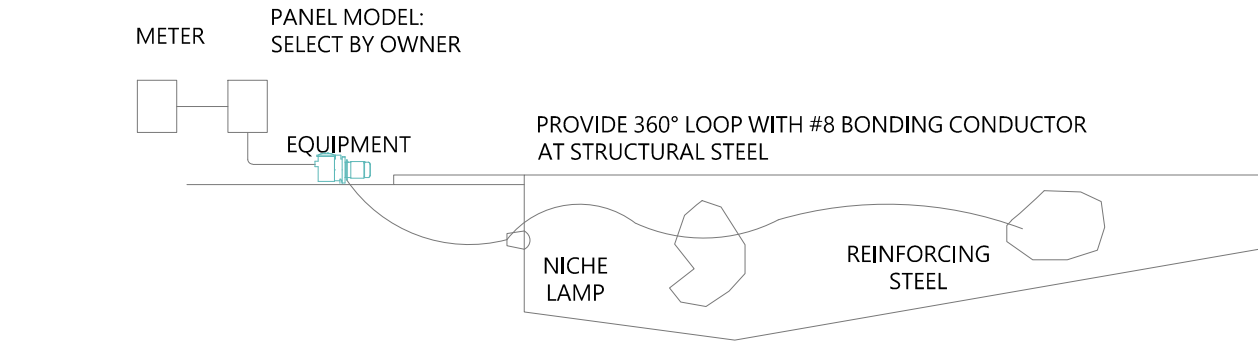
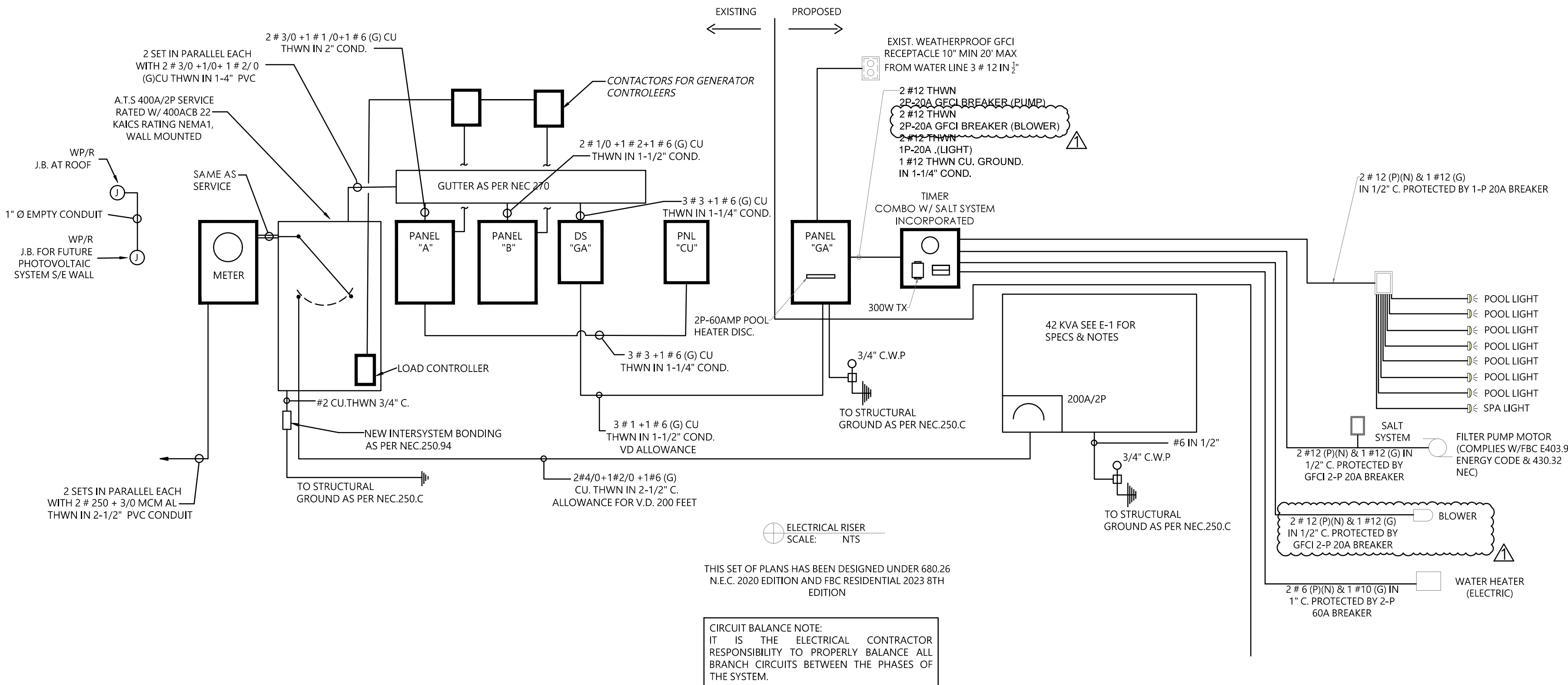
FLOOD ZONE: X

APPLICABLE CODES

(F.B.C) 2023 FL BUILDING CODE

BONDING NOTES

EQUIPOTENTIAL BONDING SHALL BE REQUIRED. THE PARTS (CONDUCTIVE POOLS SHELLS, PERIMETER SURFACES, METAL COMPONENTS (SUCH AS LIGHT NICHE OR HANDRAIL), UNDERWATER LIGHTING, METAL FITTINGS, ELECTRICAL EQUIPMENT AND ALL FIXED METAL PARTS) SHALL BE BONDED USING A SINGLE SOLID #8 AWG BONDING WIRE PLACED AROUND THE PERIMETER 18" TO 24" FROM THE POOL'S WATER EDGE, PLACED 4" TO 6" BELOW GRADE, FOLLOWING THE CONTOUR OF THE PERIMETER SURFACE, CONNECTED TO THE STRUCTURAL STEEL REINFORCING IN FOUR (4) UNIFORMLY SPACED LOCATIONS BY EXOTHERMIC WELDING OR BY LISTED PRESSURE CONNECTORS OR CLAMPS THAT ARE LABELED AS BEING SUITABLE FOR THIS PURPOSE AND ARE OF STAINLESS STEEL, BRASS, COPPER OR COPPER ALLOY. THIS SINGLE SOLID #8 AWS WIRE WILL EXTEND UNDER CONCRETE, PAVERS AND UNPAVED SURFACES, WHERE NONE OF THE BONDED PARTS IS IN DIRECT CONNECTION WITH THE POOL WATER, THE POOL WATER SHALL BE IN DIRECT CONTACT WITH AN APPROVED CORROSION-RESISTANT CONDUCTIVE SURFACE THAT EXPOSES NOT LESS THAN 9 IN 2 (5800 MM2) OF SURFACE AREA TO THE POOL WATER AT ALL TIMES. IF 9 SI IS NOT ACCOMPLISHED BY THE BONDED ITEMS ABOVE, A POOL BOND PB-2008 (10.1 SI), OR EQUAL SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURES INSTRUCTIONS IN A RETURN LINE. GFCI PROTECTION SHALL BE PROVIDED FOR POOL PUMP MOTORS, FBC 8TH EDITION RESIDENTIAL 14501.16 ELECTRICAL. ELECTRICAL EQUIPMENT WIRING AND INSTALLATION, INCLUDING THE BONDING AND GROUNDING OF POOL COMPONENTS SHALL COMPLY WITH CHAPTER 27 OF THE FLORIDA BUILDING CODE, BUILDING. OUTLETS SUPPLYING POOL PUMP MOTORS CONNECTED TO SINGLE-PHASE 120-VOLT THROUGH 240-VOLT BRANCH CIRCUITS, WHETHER BY RECEPTACLE OR BY DIRECT CONNECTION, AND OUTLETS SUPPLYING OTHER ELECTRICAL EQUIPMENT AND UNDERWATER LUMINARIES OPERATING AT VOLTAGES GREATER THAN THE LOW VOLTAGE CONTACT LIMIT, CONNECTED TO SINGLE-PHASE, 120 VOLT THROUGH 240 VOLT BRANCH CIRCUITS, RATED 15 OR 20 AMPERES, WHETHER BY RECEPTACLE OR BY DIRECT CONNECTION, SHALL BE PROVIDED WITH GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL. 2020 NATIONAL ELECTRICAL CODE (NEC), NFPA 70 SHALL GOVERN OUTSIDE OF THE PROVISIONS ABOVE. NEC 430.32 CONTINUOUS-DUTY MOTORS SUCH AS POOL PUMP MOTORS SHALL HAVE OVERLOAD PROTECTION.



N.E.C 2020 EDITION CHAPTER 680-25

680.25 FEEDERS. THESE PROVISIONS SHALL APPLY TO ANY FEEDER ON THE SUPPLY SIDE OF PANELBOARDS SUPPLYING BRANCH CIRCUITS FOR POOL EQUIPMENT COVERED IN PART II OF THIS ARTICLE AND ON THE LOAD SIDE OF THE SERVICE EQUIPMENT OR THE SOURCE OF A SEPARATELY DERIVED SYSTEM.

(A) WIRING METHODS. FEEDERS SHALL BE INSTALLED IN RIGID METAL CONDUIT, INTERMEDIATE METAL CONDUIT, LIQUIDTIGHT, FLEXIBLE NONMETALLIC CONDUIT, OR RIGID NONMETALLIC CONDUIT. ELECTRICAL METALLIC TUBING SHALL BE PERMITTED WHERE INSTALLED ON OR WITHIN A BUILDING, AND ELECTRICAL NONMETALLIC TUBING SHALL BE PERMITTED WHERE INSTALLED WITHIN A BUILDING.

EXCEPTION: AN EXISTING FEEDER BETWEEN AN EXISTING REMOTE PANEL BOARD AND SERVICE EQUIPMENT SHALL BE PERMITTED TO RUN IN FLEXIBLE METAL CONDUIT OR AN APPROVED CABLE ASSEMBLY THAT INCLUDES AN EQUIPMENT GROUNDING CONDUCTOR WITHIN ITS OUTER SHEATH. THE EQUIPMENT GROUNDING CONDUCTOR SHALL COMPLY WITH 250.24(A)(5).

(B) GROUNDING. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH THE FEEDER CONDUCTORS BETWEEN THE GROUNDING TERMINAL OF THE POOL EQUIPMENT PANEL BOARD AND THE GROUNDING TERMINAL OF THE APPLICABLE SERVICE EQUIPMENT OR SOURCE OF A SEPARATELY DERIVED SYSTEM. FOR OTHER THAN (1) EXISTING FEEDERS COVERED IN 680.25(A), EXCEPTION, OR (2) FEEDERS TO SEPARATE BUILDINGS THAT DO NOT UTILIZE AN INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH 680.25(B)(2), THIS EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSULATED.

PANEL "GA"									
TYPE: LOADCENTER NEMA 3 R SERVICE: GAZEBO REAR VOLTAGE: 120/240V, 1/2, 3W MOUNTING: SURFACE					MAIN BUS: 100A NEUTRAL: 100A MAIN: 100 A / 2P MCB ACS: 10K				
AMPS	POLES	TOTAL V.A.	CIRCUIT SIZE	WIRE SIZE	REMARKS	CIR NO.	CIR NOS.	REMARKS	WIRE SIZE
20	2	3200	1/2	10	MIN SPLIT "GA"	1	1	INSTANT WATER HEATER	8 - 1
20	2	1875	1/2	12	(G) POOL PUMP	2	2	SMALL APPLIANCES (A/G)	12 - 1
20	2	1875	1/2	12	(G) BLOWER	3	3	SMALL APPLIANCES (A/G)	12 - 1
40	2	10,000	1	6	(A/G) POOL HEATER	4	4	U.C. REFRIGERATOR (A/G)	12 - 1
20	1	*	1/2	12	(G) POOL LIGHTS	5	5	U.C. ICE MAKER (A/G)	12 - 1
-	-	-	-	-	SPACE 19	6	6	GR BATH (A/G)	12 - 1
-	-	-	-	-	SPACE 20	7	7	RECEPTACLES/LIGHTS (A)	12 - 1
-	-	-	-	-	SPACE 21	8	8	GR RECEPTACLE (G)	12 - 1
-	-	-	-	-	SPACE 22	9	9	SPACE	-
-	-	-	-	-	SPACE 23	10	10	SPACE	-
-	-	-	-	-	SPACE 24	11	11	SPACE	-
-	-	-	-	-	SPACE 25	12	12	SPACE	-
-	-	-	-	-	SPACE 26	13	13	SPACE	-
-	-	-	-	-	SPACE 27	14	14	SPACE	-
-	-	-	-	-	SPACE 28	15	15	SPACE	-
-	-	-	-	-	SPACE 29	16	16	SPACE	-

(A/G) COMBINATION ARCH / GR CIRCUIT BREAKERS

(A) ARCH CIRCUIT BREAKERS

(G) GR CIRCUIT BREAKERS

(AFT AD) CONTACTOR CONTROLLED BY MANAGEMENT SYSTEM IN GENERATOR MODE

(ST) CONTACTOR "OFF" IN GENERATOR MODE

LOAD CALCULATION					PANEL "GA" SERVICE					GENER.				
SQUARE FEET OF CONDITION SPACE					3,960	2,370	550	6,880	6,880					
GENERAL LIGHTING AT 3 W.S.F					11,880	7,110	1,650	20,640	20,640					
SMALL APPLIANCES CIRCUITS					6	0	2	8	4					
SMALL APPLIANCES LOAD					9,000	0	3,000	12,000	6,000					
GARAGE DOOR & GATE MOTOR					1,700	0	0	1,700	1,700					
LAUNDRY / WASHER					3,000	0	0	3,000	1,500					
DOUBLE OVEN / MICRO / COFFEE					12,000	0	0	12,000	0					
COOKTOP					6,000	0	0	6,000	0					
DRYER					5,000	0	0	5,000	0					
POOL EQUIPMENT					0	0	12,600	12,600	0					
HOT WATER HEATER					0	0	9,000	9,000	9,000					
STEAM UNIT					0	12,000	0	12,000	0					
REFRIGERATOR / ICE MACHINE / WINE					6,250	0	650	6,900	6,900					
DISHWASHER					1,200	0	1,200	2,400	2,400					
DISPOSAL / GARAGE DISPOSAL					750	0	650	1,400	750					
IRRIGATION PUMP					0	1,840	0	1,840	0					
A/C @ 100 %					16,150	5,575	3,575	25,300	10,575					
DEMAND					25,580	7,110	4,650	37,340	28,140					
GEN. LIGHT, LAUNDRY & SMALL APPLIANCES					3,000	3,000	3,000	3,000	3,000					
FIRST 3 KVA @ 100%					7,903	2,489	578	12,019	17,185					
NEXT 117 KVA @ 35%					0	0	0	0	0					
REMAINDER @ 25%					0	0	0	0	0					
HEATING OR A/C @ 45%					16,150	5,575	3,575	25,300	10,575					
APPLIANCE LOAD (75% IF > 4 APPLIANCES)					12,900	0	10,875	23,775	18,788					
DRYER					5,000	0	0	5,000	0					
COOKTOP / OVEN					12,000	0	0	12,000	0					
TOTAL					56,953	10,014	18,028	81,094	41,162					
AT 240 VOLT					237	42	75	338	172					
NEUTRAL LOAD CALCULATION					25,580	7,110	4,650	37,340	49,100					
GENERAL LIGHT, WASHER AND SMALL APP.					3,000	0	3,000	3,000	0					
FIRST 3000 AT 100%					7,903	2,489	578	12,019	17,185					
REST AT 35%					0	0	0	0	0					
RANGE AT 70%					0	0	0	0	0					
DRYER AT 70%					3,500	0	0	3,500	3,500					
OTHER LOAD					0	1,840	12,600	14,440	0					
TOTAL NEUTRAL LOAD					22,803	4,329	16,178	41,359	29,085					
AT 240 VOLT					95	18	67	172	121					

PROJECT NAME/ OWNER:

HERITAGE HOMEBUILDERS II LLC

ENGINEER:

REINALDO REMEDIOS, P.E
LICENSE No. 67772

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED ON THE DATE ADJACENT TO THE SEAL USING A AUTENTICATION CODE .

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED. THE SIGNATURE AND SEAL MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SCOPE OF WORK:

CONSTRUCTION DOCUMENTS FOR
PROPOSED POOL, SPA & SUNKEN AREA

SHEET No:

E-1