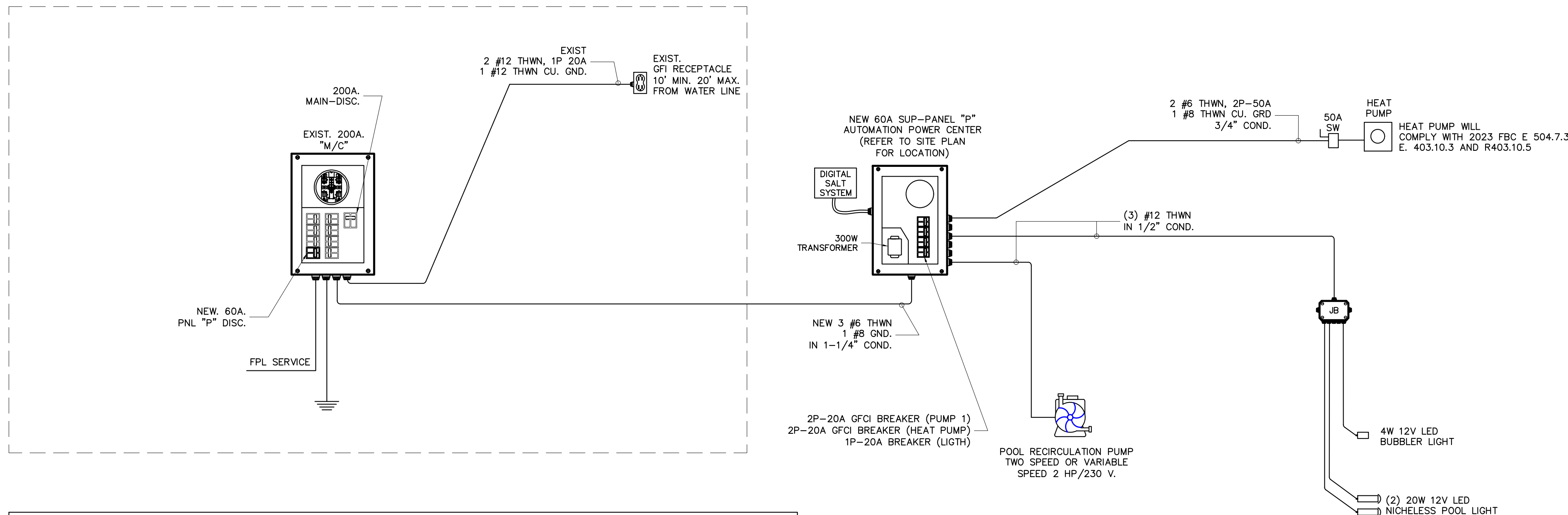


EXIST. ELECTRICAL RISER DIAGRAM



I HEREBY CERTIFY THAT THE EXISTING SERVICE AND PANEL HAVE ENOUGH CAPACITY TO ACCOMMODATE THE NEW/ADDED POOL EQUIPMENT LOAD

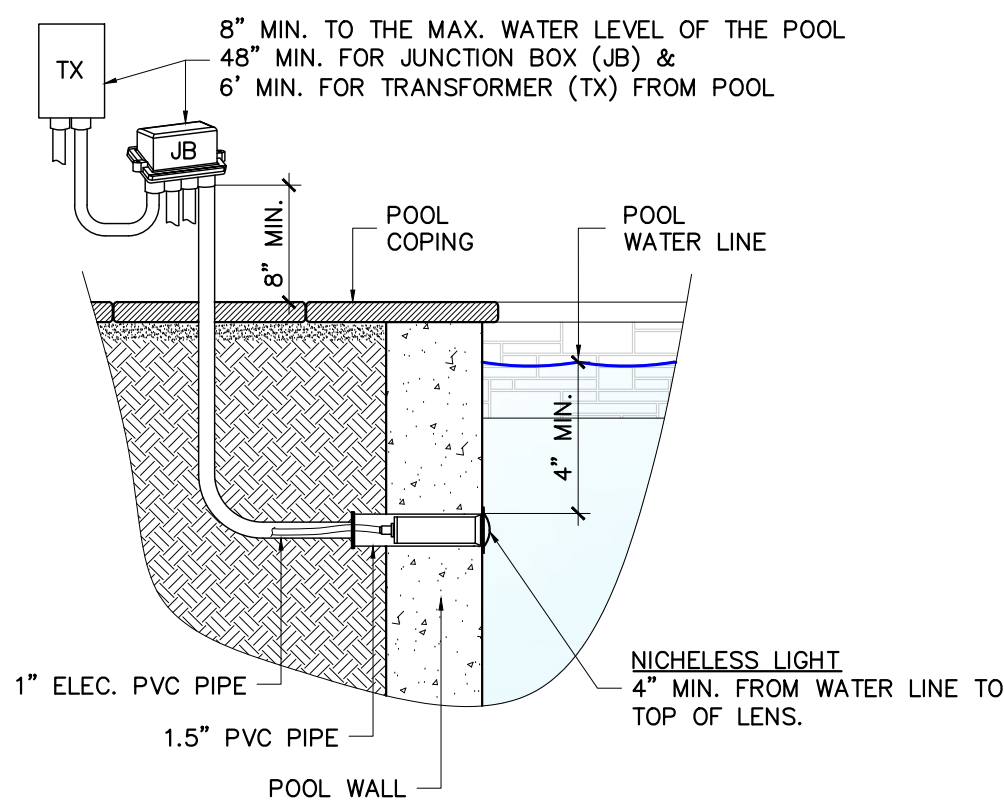
POOL PUMP WILL COMPLY WITH FBC 2023, E.403.10, N.E.C. 2020 430.32

NEW ELECTRICAL RISER DIAGRAM

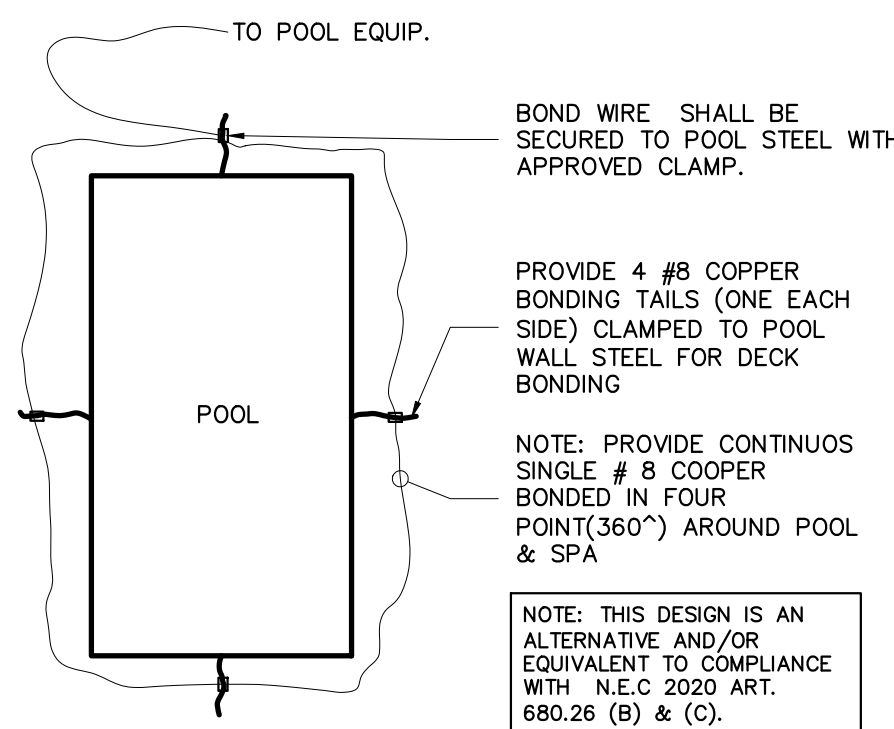
ELECTRICAL PANEL 'P'														
TYPE AUTOMATION POWER CENTER										ENCLOSURE -				
SERVICE 200										LOCATION SEE PLAN				
VOLTAGE 1Ø, 120/240										RATING 80 A				
MAINS MAIN LUG										AC 1Ø K				
AMPS	POLES	V.A	COND. SIZE	WIRE SIZE	DESCRIPTION	CKT NO.		CKT NO.	DESCRIPTION	WIRE SIZE	COND. SIZE	V.A	POLES	AMPS
20	2	2500	1/2"	12	2 HP PUMP	1		2	HEAT PUMP	6	3/4"	5500	2	50
						3								
20	1	28	1/2"	12	POOL LIGHTS	5		6				0		
						7		8				0		
TOTAL V.A		2,528												
TOTAL LOAD @ 100%			8,028 W		33.45 AMP				TOTAL V.A		5,500			

ELECTRIC LOAD CALCULATION
TOTAL SERVICE 0A

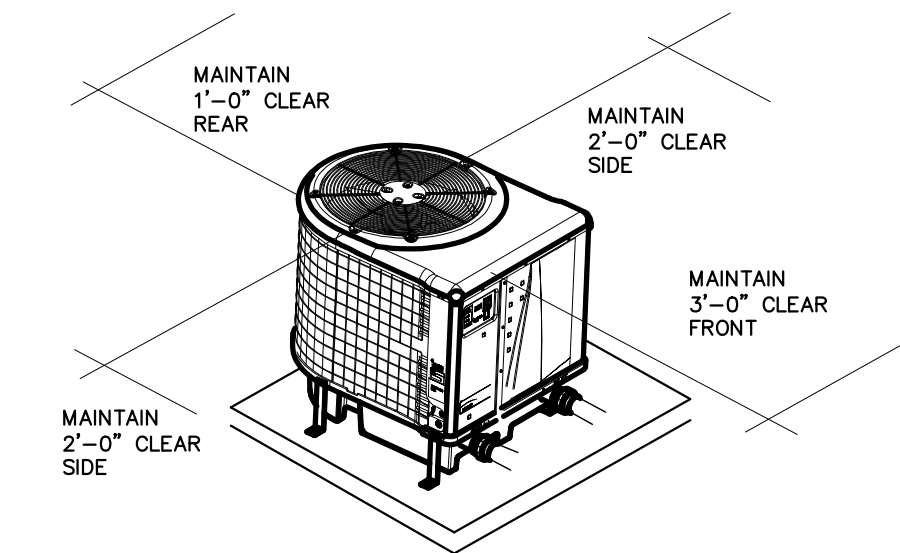
HOUSE		
GRL LIGHTING (*3 WATT/SQ.FT.)	AREA 2,600 SQ FT	7,800 W
SMALL APPLIANCE,		6000.000000
SPRINKLE PUMP		2000.000000
DISH WASHER		1500.000000
GARBAGE DISPOSAL		750.000000
REFRIGERATOR		1500.000000
LAUNDRY		1500.000000
DRYER		6000.000000
RANGE		8500.000000
WATER HEATER		7200.000000
MICROWAVE, REFRIGERADOR		2500.000000
SUBTOTAL HOUSE DEMANDED WATTAGE		45,250 W
FIRST 10 KW. @ 100%		10000.000000
REMAINDER @ 40%		14,100 W
A/C @ 100%		8500.000000
OTHER		0.000000
OTHER		0.000000
TOTAL HOUSE DEMANDED WATTAGE		32,600 W
TOTAL HOUSE DEMANDED AMP		135.8 A
NEW POOL EQUIPMENTS		
2HP POOL PUMP		2500.000000
POOL LIGHT		28.000000
HEAT PUMP		5500.000000
OTHER		0.000000
OTHER		0.000000
OTHER		0.000000
OTHER		0.000000
TOTAL POOL DEMANDED WATTAGE @ 100%		8,028 W
TOTAL POOL DEMANDED AMP @ 100%		33.5 A
FINAL TOTAL HOUSE DEMANDED 169.28 A		



NICHELESS LIGHT DETAIL
NO SCALE



POOL BOND SCHEMATIC
NO SCALE



PROVIDE FACTORY ANCHORS CLAMPS WITH 1/4" X 3" STAINLESS STEEL TAPCON SCREWS AT EACH ANCHORS CLAMP TO CONCRETE SLAB

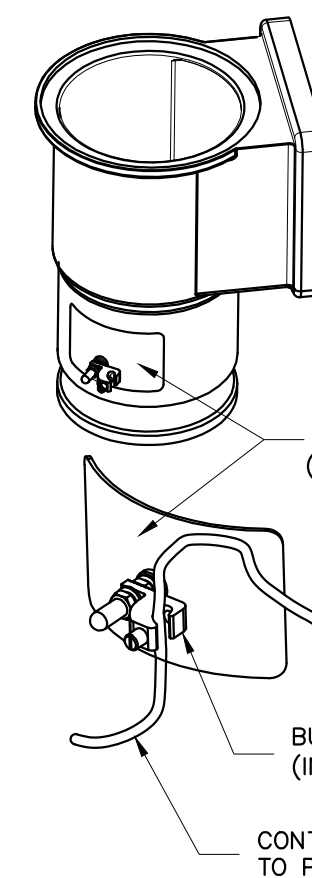
UNIT MUST BE INSTALLED TO WITHSTAND 176 MPH HURRICANE FORCE WINDS UNIT

CONCRETE BASE 4" THICKNESS MINIMUM

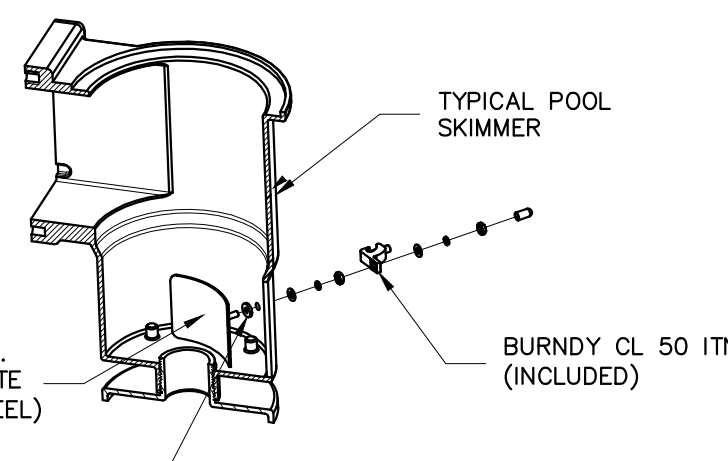
NOTE: THIS HEAT PUMP WAS PROVIDED WITH ANCHOR CLAMPS DESIGNED TO HOLD THE UNIT TO THE EQUIPMENT PAD IN HIGH WIND CONDITIONS.

HEAT PUMP
MOUNTING DETAIL

INSTALLED VIEW



CUTAWAY VIEW



SKIMMER BONDING DETAIL

(FOR NICHELSS LIGHTS)
AS PER N.E.C 2014 ART 680 .26(C)

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JORGE CRESPO ON THE DATE ADJACENT TO THE SEAL USING A AUTHENTICATION CODE.

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