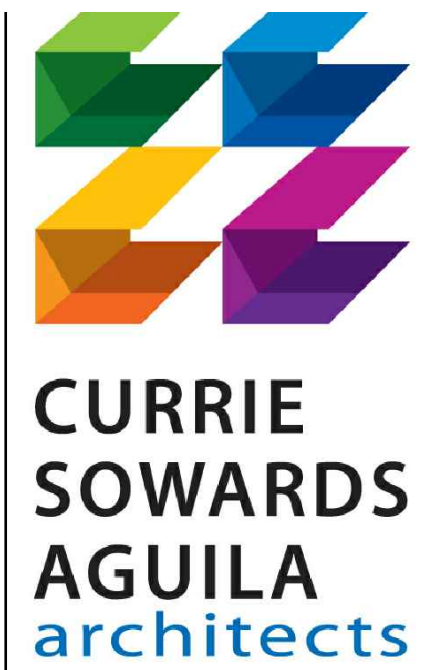


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ISSUED FOR :

BIDS

PERMIT

CONSTRUCTION

SEAL

JOSE AGUILA
FL. REG# A000

PROJECT TITLE

STONEBRIDGE
COUNTRY CLUB
GOLF
MAINTENANCE
BUILDING

17501 S. STATE ROAD 7
BOCA RATON, FL 33498

REVISIONS

THESE DRAWINGS ARE PREPARED
PER ESTABLISHED INDUSTRY
STANDARDS AND REPRESENT THE
ARCHITECT AND ENGINEERS
DESIGN CONCEPT. THEY ARE NOT
INTENDED TO PROVIDE EVERY
DETAIL OR CONDITION REQUIRED
TO CONSTRUCT THE BUILDING.
THE CONTRACTOR THROUGH
SUBMITTALS AND OTHER
COORDINATION EFFORTS IS FULLY
RESPONSIBLE FOR PROVIDING A
COMPLETE AND OPERATIONAL
BUILDING WHETHER INDICATED ON
THE PLANS OR NOT.

PERMIT SET - 10/16/23

DRAWING TITLE

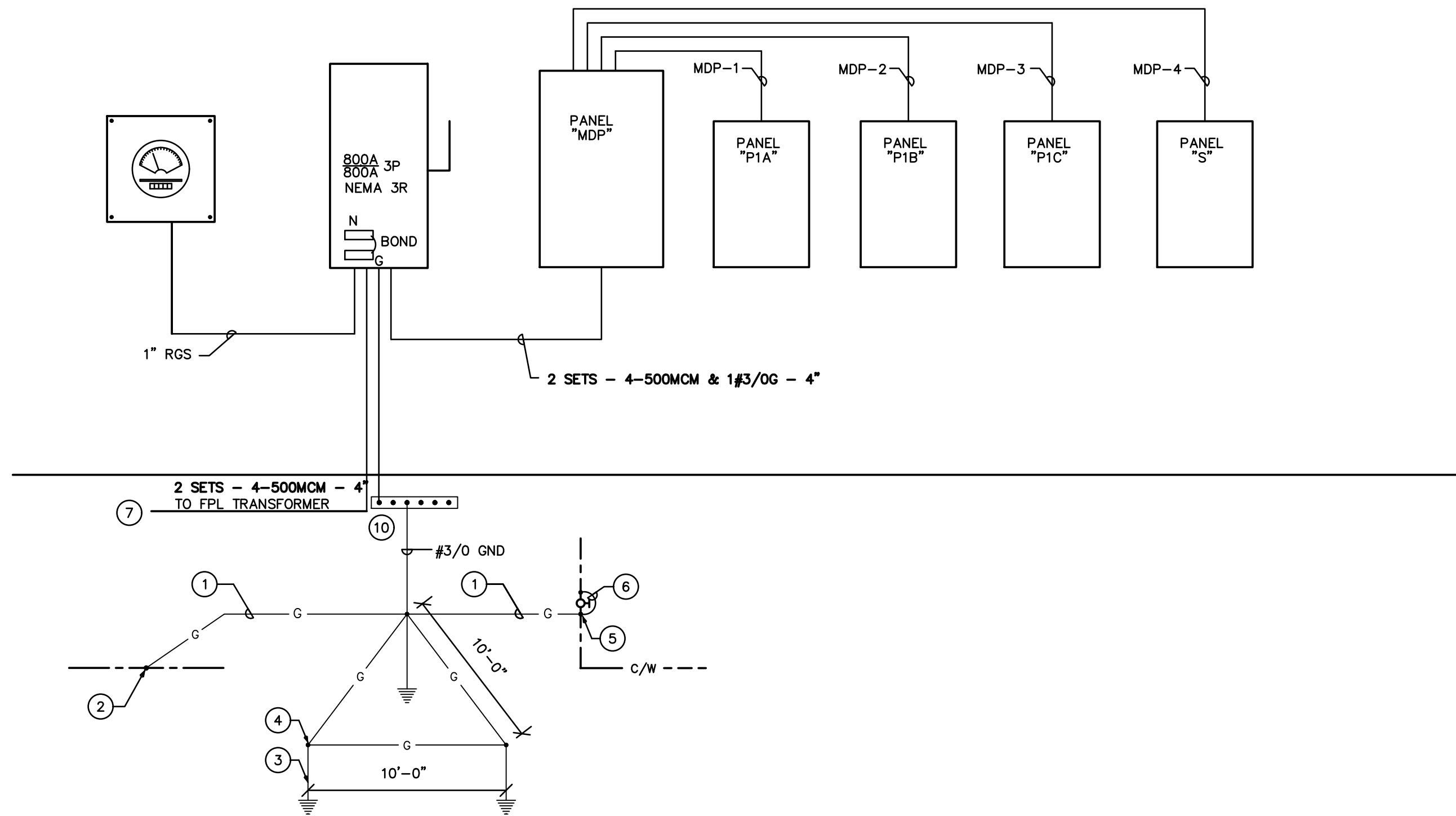
RISER DIAGRAM

DATE
09/08/23
JOB NUMBER
220906
DRAWING NUMBER

E5.1

ELECTRICAL ONE-LINE NOTES

- 1#3/0 GROUNDING ELECTRODE CONDUCTOR IN 1" SCHEDULE 40 PVC CONDUIT.
- EXOTHERMIC CONNECTION, ELECTRICALLY CONTINUOUS STEEL REINFORCING BAR (25FT LENGTH) IN BOTTOM OF BUILDING FOUNDATION IN DIRECT CONTACT WITH EARTH.
- 10 FT. LONG x 3/4" DIAMETER COPPER DRIVEN GROUND ELECTRODE. (TYPICAL)
- EXOTHERMIC CONNECTION OR HEAVY DUTY SOLID BRONZE BOLTED GROUND CLAMP U.L. LISTED FOR THE PURPOSE. (TYPICAL)
- MAKE CONNECTION TO METALLIC COLD WATER ENTRANCE PIPE BEFORE FIRST VALVE WITH HEAVY DUTY BRONZE GROUND CLAMP.
- PROVIDE 1/4S/O BONDING JUMPER AROUND FIRST VALVE. FOR METALLIC PIPING ONLY, NOT NEEDED FOR PVC PIPING.
- TERMINATE CONDUIT IN EXACT MANNER AND LOCATION AS DIRECTED BY UTILITY COMPANY. LEAVE 15FT. SLACK CONDUCTOR PER CONDUCTOR FOR EXTENSION AND CONNECTION BY UTILITY COMPANY.
- BUILDING PRINCIPLE GROUND BAR, LOCATED IN MAIN ELECTRICAL ROOM. REFER TO DETAIL THIS SHEET.



ELECTRICAL RISER DIAGRAM

NTS

SCHEDULE OF BRANCH CIRCUIT PANEL "S"

MAIN: 225 AMP MAIN LUGS ONLY											VOLTAGE: 208/120V, 3ø, 4 WIRE			
SPEC: SQUARE D TYPE "NQ" OR APPROVED EQUIVALENT											AIC SYMM: 10,000			
MOUNTING: FLUSH														
DESCRIPTION	WIRE	GND.	COND.	TRIP	CKT.	A PHASE KVA	B PHASE KVA	C PHASE KVA	CKT.	TRIP	COND.	GND.	WIRE	DESC
SITE LIGHTING GFI	2#10	1#10	3/4"	20	1	1.2	1.2		2	20	1/2"	1/2"	2#12	SITE LIGHTING
SITE LIGHTING GFI	2#10	1#10	3/4"	20	3		1.2	1.2		2	20	1/2"	2#12	SITE LIGHTING
SITE LIGHTING GFI	2#10	1#10	3/4"	20	5			1.2	1.2	6	20			FUTURE LIGHTING
SITE LIGHTING GFI	2#10	1#10	3/4"	20	7	1.2	1.2		8	20				FUTURE LIGHTING
FUTURE SITE LIGHTING	-	-	-	20	9		1.2	1.2		10	20			SPARE
FUTURE SITE LIGHTING	-	-	-	20	11			1.2	1.2	12	20			SPARE
FUTURE SITE LIGHTING	-	-	-	20	13	1.2	1.2		14	20				SPARE
SPARE	-	-	-	20	15		1.2	1.2		16	20			SPARE
SPARE	-	-	-	20	17			1.2		18	20			SPARE
SPARE	-	-	-	20	19	1.2	-			20	20			SPARE
SPARE	-	-	-	20	21		1.2	-		22	20			SPARE
SPARE	-	-	-	20	23			1.2		24	20			SPARE
SPARE	-	-	-	20	25	1.2	-			26	20			SPARE
SPARE	-	-	-	20	27		-			28	20			SPARE
SPARE	-	-	-	20	29		-			30	20			SPARE
SPARE	-	-	-	20	31		-			32	20			SPARE
SPARE	-	-	-	20	33		-			34	20			SPARE
SPARE	-	-	-	20	35		-			36	20			SPARE
SPARE	-	-	-	20	37		-			38	20			SPARE
SPARE	-	-	-	20	39		-			40	20			SPARE
SPARE	-	-	-	20	41		-			42	20			SPARE
NOTE: MULTI-WIRE BRANCH CIRCUITS WITH MULTI-POLE BREAKERS ARE ACCEPTABLE FOR USE WITH NORMAL LIGHTING AND POWER BRANCH CIRCUITS IN LIEU OF THE SINGLE POLE BRANCH CIRCUITS INDICATED.						9.6	8.4	7.2	KVA PER PHASE					
NOTE: MULTI-WIRE BRANCH CIRCUITS ARE NOT ALLOWED FOR EMERGENCY LIGHTING AND POWER BRANCH CIRCUITS						80.0	70.0	60.0	AMPS PER PHASE					
						25.2		TOTAL KVA						

SCHEDULE OF BRANCH CIRCUIT PANEL "PIB"

MAIN: 225 AMP MAIN LUGS ONLY						VOLTAGE: 208/120V, 3ø, 4 WIRE								
SPEC: SQUARE D TYPE "NQ" OR APPROVED EQUIVALENT						AIC SYMM: 10,000								
MOUNTING: FLUSH														
DESCRIPTION	WIRE	GND.	COND.	TRIP	CKT.	A PHASE KVA	B PHASE KVA	C PHASE KVA	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION
LIGHTING & EM LTG	2#12	1#12	1/2"	20	1	1.2	1.2		2	20	1/2"	2#12	2#12	LIGHTING - ARTS & STORAGE
LIGHTING & EM LTG	2#12	1#12	1/2"	20	3		1.2	1.2	4	20	1/2"	2#12	2#12	LIGHTING - LUNCH ROOM
LIGHTING & EM LTG	2#12	1#12	1/2"	20	5			1.2	1.2	6	20	1/2"	2#12	LIGHTING - LOCKER & BATH RM
LIGHTING & EM LTG	2#12	1#12	1/2"	20	7	1.2	1.2		8	20	1/2"	2#12	2#12	LIGHTING - ADMIN/ SUPT
LIGHTING & EM LTG	2#12	1#12	1/2"	20	9				10	20				SPARE
LIGHTING & EM LTG	2#12	1#12	1/2"	20	11				12	20				SPARE
LIGHTING & EM LTG	2#12	1#12	1/2"	20	13	1.2	1.2		14	20				SPARE
LIGHTING & EM LTG	2#12	1#12	1/2"	20	15		1.2	1.2	16	20				SPARE
LIGHTING & EM LTG	2#12	1#12	1/2"	20	17			1.2	1.2	18				SPARE
SPARE	-	-	-	20	19	1.2	1.2		20	20				SPARE
SPARE	-	-	-	20	21		1.2	1.2	22	20				SPARE
SPARE	-	-	-	20	23			1.2	1.2	24	20			SPARE
SPARE	-	-	-	20	25	1.2	1.2		26	20				SPARE
SPARE	-	-	-	20	27		1.2	1.2	28	20				SPARE
SPARE	-	-	-	20	29			-	30	20				SPARE
SPARE	-	-	-	20	31	-	-	-	32	20				SPARE
SPARE	-	-	-	20	33	-	-	-	34	20				SPARE
SPARE	-	-	-	20	35	-	-	-	36	50	1"	1#10	2#8	OARTU-1
SPARE	-	-	-	20	37	-	-	-	38	50				SPARE
AHU-3	2#12	1#12	1/2"	15	39	(0.3)	1.2		40	25	3/4"	1#10	2#10	CU-3
				2	41				42	25				
NOTE:						15.7	13.2	14.5	KVA PER PHASE					
NOTE: MULTI-WIRE BRANCH CIRCUITS WITH MULTI-POLE BREAKERS ARE ACCEPTABLE FOR USE WITH NORMAL LIGHTING AND POWER BRANCH CIRCUITS IN LIEU OF THE SINGLE POLE BRANCH CIRCUITS INDICATED.						130.9	110.0	129.9	AMPS PER PHASE					
NOTE: MULTI-WIRE BRANCH CIRCUITS ARE NOT ALLOWED FOR EMERGENCY LIGHTING AND POWER BRANCH CIRCUITS							43.4		TOTAL KVA					

SCHEDULE OF BRANCH CIRCUIT PANEL "PIC"

MAIN: 225 AMP MAIN LUGS ONLY						VOLTAGE: 208/120V, 3ø, 4 WIRE										
SPEC: SQUARE D TYPE "NQ" OR APPROVED EQUIVALENT						AIC SYMM: 10,000										
MOUNTING: FLUSH																
DESCRIPTION		WIRE	GND.	COND.	TRIP	CKT.	A PHASE KVA	B PHASE KVA	C PHASE KVA	CKT.	TRIP	GND.	WIRE	DESCRIPTION		
STORAGE SM TOOL RECEPTACLES		2#12	1#12	1/2"	20	1	0.8	1.0		2	20	1/2"	2#12	EQUIPMENT LIFT		
STORAGE SM TOOL RECEPTACLES		2#12	1#12	1/2"	20	3		0.8	2.5		4	30	3/4"	2#10 EQUIPMENT LIFT		
MECH SHOP & OFFICE RECS		2#12	1#12	1/2"	20	5			1.0	2.5	6	20	1/2"	2#12 EQUIPMENT LIFT		
EQ. B BEDKIN GRINDER		2#12	1#12	1/2"	20	7	1.0	1.5		8	20	1/2"	2#12	VERTICAL AIR COMPRESSOR		
EQ. C REEL GRINDER		2#12	1#12	1/2"	20	9		1.0	2.8		10	60	1"	2#6 VERTICAL AIR COMPRESSOR		
EQ. D TIRE CHANGER		2#12	1#12	1/2"	20	11			1.2	2.8	12	2				
EQ. D TIRE CHANGER		2#12	1#12	1/2"	20	13	0.6	1.2		14	20	1/2"	2#12	PARTS ROOM RECEPTACLES		
EQ. DRILL PRESS		2#12	1#12	1/2"	20	17		0.6	1.2		18	20	1/2"	2#12	SM HAND TOOL RECEPTACLES	
MECH SHOP AREA RECS		2#12	1#12	1/2"	20	19	1.0	1.2		20	20	1/2"	2#12	SM HAND TOOL RECEPTACLES		
EQUIPMENT LIFT		2#12	1#12	1/2"	20	21		1.0	1.2		22	20	1/2"	2#12	EQ STORAGE RECEPTACLES	
EQUIPMENT LIFT		2#10	1#10	3/4"	30	23			2.5	0.8	24	20	1/2"	2#12	ROOF RECEPTACLES GFI	
EQ. F ELECTRIC CHAIN HOIST		2#12	1#12	1/2"	20	27		2.5	0.4		28	15	3/4"	2#12	EF-4	
EQ. STORAGE RECEPTACLES		2#12	1#12	1/2"	20	29			1.1	0.4	30	2				
EF-1		2#12	1#12	3/4"	20	31	0.9	-		1.0	0.1	30	25	1/2"	2#12	MOTORIZED DAMPERS
EF-1		2#12	1#12	3/4"	20	33		0.9	-		34	20	-	-	SPARE	
EF-2		2#12	1#12	3/4"	15	35		0.4	(0.3)		36	15	3/4"	2#12	AHU-4	
EF-3		2#12	1#12	3/4"	15	39		0.4	1.2		40	25	3/4"	1#10 2#10	CU-4	
EF-3		2#12	1#12	3/4"	2	41			1.0	1.2	42	2				
NOTE:							12.5	15.1	16.2	KVA PER PHASE						
NOTE: ACCEPTABLE FOR USE WITH NORMAL LIGHTING AND POWER BRANCH CIRCUITS IN LIEU OF THE SINGLE POLE BRANCH CIRCUITS INDICATED.							104.2	125.9	135.0	AMPS PER PHASE						
NOTE: MULTI-WIRE BRANCH CIRCUITS ARE NOT ALLOWED FOR EMERGENCY LIGHTING AND POWER BRANCH CIRCUITS								43.8		TOTAL KVA						

SCHEDULE OF BRANCH CIRCUIT PANEL "PIA"

MAIN: 225 AMP MAIN LUGS ONLY						VOLTAGE: 208/120V, 3ø, 4 WIRE											
SPEC: SQUARE D TYPE "NQ" OR APPROVED EQUIVALENT						AIC SYMM: 10,000											
MOUNTING: FLUSH																	
DESCRIPTION		WIRE	GND.	COND.	TRIP	CKT.	A PHASE KVA	B PHASE KVA	C PHASE KVA	CKT.	TRIP	COND.	GND.	WIRE	DESCRIPTION		
LUNCH ROOM RECEPTACLES		2#12	1#12	1/2"	20	1	1.2	1.5		2	20	1/2"	1#12	2#12	WOMEN LOCK HAND DRYER GFI		
LUNCH ROOM SM APPL GFI		2#12	1#12	1/2"	20	3		1.5	0.6	4	20	1/2"	1#12	2#12	WOMEN LOCK BATHRM REC GFI		
LUNCH ROOM SM APPL GFI		2#12	1#12	1/2"	20	5			1.5	1.5	6	20	1/2"	1#12	2#12	MEN LOCK HAND DRYER GFI	
LUNCH ROOM DISPOSAL GFI		2#12	1#12	1/2"	20	7	1.2	0.6		8	20	1/2"	1#12	2#12	MEN LOCK BATHRM REC GFI		
LUNCH ROOM SM APPL GFI		2#12	1#12	1/2"	20	9			1.5	0.6	10	20	1/2"	1#12	2#12	BATHROOM RECEPTACLES GFI	
LUNCH ROOM SM APPL GFI		2#12	1#12	1/2"	20	11			1.5	1.2	12	20	1/2"	1#12	2#12	ADMIN OFFICE RECEPTACLES	
LUNCH ROOM REFRIGERATOR GFI		2#12	1#12	1/2"	20	13	1.2	1.2		14	20	1/2"	1#12	2#12	SUPT OFFICE RECEPTACLES		
VENDING MACHINE		2#12	1#12	1/2"	20	15		1.5	1.0	16	20	1/2"	1#12	2#12	ADMIN HAND DRYER GFI		
VENDING MACHINE		2#12	1#12	1/2"	20	17			1.5	1.0	18	20	1/2"	1#12	2#12	ADA SHOWER HAND DRYER GFI	
VENDING MACHINE		2#12	1#12	1/2"	20	19	1.5	1.0		20	20	-	-	-	-	SPARE	
VENDING MACHINE		2#12	1#12	1/2"	20	21		1.5	1.0	22	20	-	-	-	-	SPARE	
EQ STORAGE RECEPTS GFI		2#12	1#12	1/2"	20	23			1.5	1.0	24	20	-	-	-	SPARE	
DRINKING FOUNTAIN GFI		2#12	1#12	1/2"	20	25	1.2	1.0		26	20	-	-	-	-	SPARE	
SPARE		-	-	-	20	27		-	1.0	28	20	-	-	-	-	SPARE	
SPARE		-	-	-	20	29			-	1.0	30	20	-	-	-	SPARE	
AHU-1A/1B		2#12	1#12	1/2"	15	31	(0.3)	0.6		32	20	1/2"	1#12	2#12	ROOF RECEPTACLES GFI		
CU-1		2#10	1#10	3/4"	2	33			(0.3)	1.5	34	20	1/2"	1#12	2#12	RECIRCULATING PUMP	
CU-1		2#10	1#10	3/4"	2	35				2.0	2.3	36	30	3/4"	1#10	2#10	HOT WATER HEATER
AHU-2		2#12	1#12	1/2"	15	39			(0.3)	1.2	40	25	3/4"	1#10	2#10	CU-2	
					2	41			(0.3)	1.2	42	25					
NOTE:							16.5	13.1	17.2	KVA PER PHASE							
NOTE: MULTI-WIRE BRANCH CIRCUITS WITH MULTI-POLE BREAKERS ARE ACCEPTABLE FOR USE WITH NORMAL LIGHTING AND POWER BRANCH CIRCUITS IN LIEU OF THE SINGLE POLE BRANCH CIRCUITS INDICATED.							137.5	109.2	143.4	AMPS PER PHASE							
NOTE: MULTI-WIRE BRANCH CIRCUITS ARE NOT ALLOWED FOR EMERGENCY LIGHTING AND POWER BRANCH CIRCUITS								46.8		TOTAL KVA							

ISSUED FOR PERMIT	-
ISSUED FOR CONSTRUCTION	-
KAMM CONSULTING PROJECT #:	2023-0419
PROJECT MANAGER:	RON SLOAN
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