

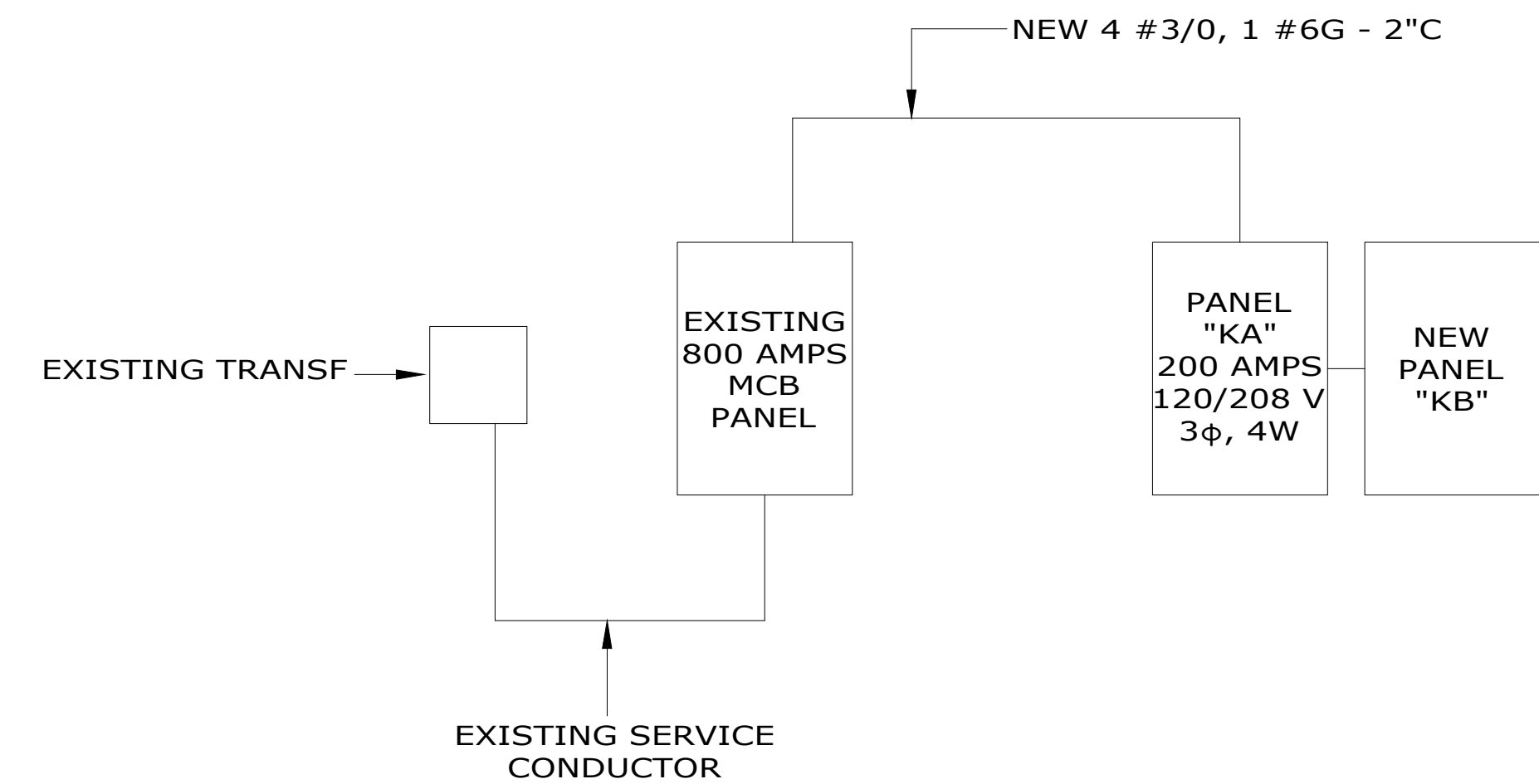
EXISTING PANEL		VOLTS 120/208		PHASE 3 WIRES 4		MCB 800		
CRC NO.	POLES & AMPS	LOAD SERVED	PHASE LOAD VA			LOAD SERVED	CRC NO.	POLES & AMPS
			A	B	C			
1	3/200	PANEL "LP-1"	7000			RTU#1-1	2	3/80
3			7000					
5			7000					
7	3/200	PANEL "LP-2"	7000			RTU#1-2	8	3/80
9								
11								
13	3/200	PANEL "KP"				RTU#1-3	14	3/80
15								
17								
19	3/150	ELEVATOR	8000			RTU#2-1	20	3/60
21			2000					
23			8000					
25	3/60	ELEVATOR	2500			RTU#2-2	26	3/60
27			5000					
29			2500					
31	3/100	SPARE	5000			RTU#2-3	32	3/60
33								
35			5000					
37	3/200	PANEL "KA"	21000			RTU#2-4	38	3/60
39			5000					
41			21000					
TOTAL			69,500	69,500	69,500			
TOTAL CONNECTED LOAD			271,500			DEMAND LINE AMPS. 580		
DEMAND LOAD			208,500					

NEW PANEL		VOLTS 120/208		PHASE 3 WIRES 4		MLO 200		
CRC NO.	POLES & AMPS	LOAD SERVED	PHASE LOAD VA			LOAD SERVED	CRC NO.	POLES & AMPS
			A	B	C			
1	3/80	AC-UNIT	2500			UTILITY DIST	2	3/60
3			6000					
5			2500					
7	3/80	AHU	2500			CU-#1	8	2/20
9			2000					
11			2500			CU-#2	10	2/20
13	3/20	MASALA GRINDER	1000					
15			2000			EVAPORATOR #1	16	2/15
17			1000					
19	3/20	DOUGH 40QT	1000			EVAPORATOR #2	20	2/20
21			500					
23			1000			AIR CURTAIN	24	1/20
25	2/20	ICE MACHINE	1000					
27			500			WALK-IN COOLER	26	1/20
29	1/20	WORK TABLE	1000			PLENTRY MIX	30	2/20
31	1/20	EXH-HOOD	500					
33	1/20	EXH-HOOD	1000			CU-#3	34	2/20
35	1/20	FRYER	500					
37	1/20	GAS OVEN	500			SPARE	38	1/20
39	1/20	GAS BURNER	500			SUB PANEL KB	40	2/100
41	1/20	COMBI-OVEN	500					
TOTAL			21,000	21,000	21,000			
TOTAL CONNECTED LOAD			63,000			DEMAND LINE AMPS. 131		
DEMAND LOAD			47,250					

NEW PANEL		VOLTS 120V		MFG: SQ D		BUS RATING: 100		
EQUIPMENT	VOLT-AMPS	C K T	B K R	PHASE LOAD VA			EQUIPMENT	
				A	B	C		
CHAPATI MACHINE	1	1/20				1/20	2	SPARE
SKILLET	3	1/20				1/20	4	SPARE
KETTLE	5	1/20				1/20	6	SPARE
WORK TABLE	7	1/20				1/20	8	SPARE
POTATO PEELER	9	1/20				1/20	10	SPARE
DOUGH DIVIDER	11	1/20				1/20	12	SPARE
ICE MACHINE	13	1/20				1/20	14	SPARE
OUTLETS	15	1/20				1/20	16	SPARE
OUTLETS	17	1/20				1/20	18	SPARE
OUTLETS	19	1/20				1/20	20	SPARE
OUTLETS	21	1/20				1/20	22	SPARE
SPARE	23	1/20				1/20	24	SPARE

BUS "A" \_\_\_\_\_ MAIN: \_\_\_\_\_ KVA DEMAND: \_\_\_\_\_  
 BUS "B" \_\_\_\_\_ FEEDER SIZE: \_\_\_\_\_ MOUNTING: \_\_\_\_\_  
 TOTAL: \_\_\_\_\_ CONDUIT SIZE: \_\_\_\_\_ AIC RATING: \_\_\_\_\_  
 SOURCE: \_\_\_\_\_

\* ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 200 AMP FEEDER BREAKER FOR NEW KITCHEN PANEL "KA".



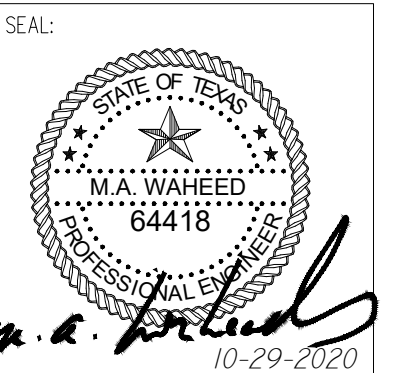
01 EXISTING ELECTRICAL RISER DIAGRAM  
N.T.S.

**ELECTRICAL SPECIFICATIONS:**

- SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY TO COMPLETE INSTALLATION FOR ELECTRICAL POWER AND LIGHTING SERVICE WITHIN THE AREA DESCRIBED ON THE DRAWINGS. ALL WORKS SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND APPLICABLE ORDINANCES, REGULATIONS, AND CODES OF THE CITY OF ALLEN, TEXAS, AND THOSE OF STATE OF TEXAS.
- FEES AND PERMITS: THIS CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEES WHICH ARE REQUIRED FOR THE WORK UNDER THIS SECTION OF THE SPECIFICATIONS.
- GUARANTEE: ALL MATERIALS AND WORKMANSHIP SHALL BE FULLY GUARANTEED FOR THE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK. DURING THIS PERIOD ALL PARTS FOUND TO BE DEFECTIVE SHALL BE REPLACED WITHOUT COST OF THE OWNER.
- UTILITIES: ELECTRICAL POWER AND TELEPHONE SERVICES SHALL BE EXTENDED TO POINTS OF SERVICE CONNECTIONS AT THE APPROXIMATE LOCATIONS SHOWN ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE INSTALLATION OF THESE SERVICES WITH THE UTILITY COMPANIES. VERIFY POINTS OF CONNECTION, PAY ALL ASSOCIATED CONNECTION FEES.
- GROUNDING: ALL ELECTRICAL EQUIPMENT INSTALLED ON THIS PROJECT SHALL BE PROPERLY GROUNDED IN STRICT ACCORDANCE WITH SECTION 250 OF THE NEC.
- RACEWAYS AND FITTINGS: ALL WIRING, EXCEPT AS OTHERWISE NOTED SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT WITHIN THE BUILDING SHALL BE GALVANIZED ELECTRICAL METALLIC TUBING (EMT), CONNECTIONS TO EQUIPMENT MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT AS ALLOWED BY CODE. WHEREVER FLEXIBLE CONDUIT IS USED IN DAMP OR OUTDOOR LOCATIONS IT SHALL BE RATED LIQUID TIGHT AND SHEATHED WITH A VINYL COVER. FITTINGS SHALL BE LIQUID TIGHT. RACEWAYS INSTALLED IN CONCRETE OR BURIED BELOW GRADE, AND SERVICE ENTRANCE CONDUIT SHALL BE FABRICATED FROM RIGID GALVANIZED STEEL CONDUIT. UNDERGROUND CONDUIT MAY BE FABRICATED FROM UPVC, ALL APPROVED PLASTIC CONDUIT, INSTALLED WITHOUT CONCRETE ENCASEMENT WHEN ALLOWED BY CODE. ALL CONDUIT AND FITTINGS SHALL BE APPROVED AND ALL LABELS, AND SHALL BE INSTALLED AS REQUIRED BY CODE.
- WIRING: ALL CONDUCTORS, EXCEPT WHERE OTHERWISE NOTED SHALL COPPER AS REQUIRED BY NEC. INSULATION SHALL BE COLORING CODED TYPE THW. ALL WIRE SIZES SHALL BE SIZED AS INDICATED AND WHERE NO SIZES ARE SPECIFIED INSTALL #12. ALL CONTROL WIRING SHALL BE # 14 SIZE.
- PULL WIRES: PULL WIRE SHALL BE FURNISHED AND INSTALLED IN ALL EMPTY CONDUITS AND SHALL 50 POUND TEST NYLON CORD. LABEL EACH TERMINATION.
- OUTLET BOXES AND COVERS: ALL OUTLET BOXES INSIDE THE BUILDING SHALL BE GALVANIZED, PRESSED STEEL TYPE, EXCEPT WHERE OTHERWISE REQUIRED. INSTALL SECTIONAL TYPE BOXES IN GYPBOARD WALLS AND MASONRY TYPE BOXES IN MASONRY WALLS. ALL JUNCTION BOXES AND PULL BOXES SHALL BE EQUIPPED WITH BLACK COVERS. ALL FLUSH MOUNTED BOXES LOCATED INSIDE THE BUILDING SHALL BE EQUIPPED WITH AN IVORY COLORED PLASTIC COVER PLATE UNLESS OTHERWISE NOTED. WALL PLATE IN ROOMS WITH WOOD PANELING SHALL BE STAINED TO MATCH THE COLOR OF THE WALL OF THE WALL BOXES FOR ALUMINUM AND SHALL HAVE THREADED CONDUIT ENTRANCES, WATERPROOF TYPE, AND ADJUSTABLE POLISHED BRASS COVER PLATE.
- WIRING DEVICES: SWITCHES SHALL BE ARROW-HART #1991-SL-1 AS REQUIRED, OR EQUAL BY HUBBELL, PASS & SEYMOUR, SIERRA OR BRYANT. RECEPTACLES SHALL BE ARROW-HART #5262-1 OR EQUAL BY SWITCH MANUFACTURER. ALL ACCESSIBLE RECEPTACLES IN RESTROOMS, JANITOR CLOSETS, KITCHENS, OR OUTDOOR RECEPTACLES SHALL BE G.F.I. TYPE OR PROTECTED BY G.F.I. CIRCUIT BREAKERS.
- TELEPHONE AND COMPUTER CONDUIT SYSTEM: FURNISH AND INSTALL AN EMPTY 3/4 INCH CONDUIT FROM EACH TELEPHONE AND COMPUTER WALL OUTLET TO 12" ABOVE THE CEILING. COORDINATE THE TELEPHONE SYSTEM INSTALLATION WITH THE TELEPHONE COMPANY.
- PANELBOARDS: PANELBOARDS SHALL BE OF THE CIRCUIT BREAKER TYPE WITH TIN PLATED ALUMINUM BUSSING SIZED AS SHOWN ON THE PLAN AS MANUFACTURED BY GENERAL ELECTRIC OR SQUARE D. ALL PANELBOARDS SHALL USE BUILT-IN TYPE CIRCUIT BREAKERS FOR AIR CONDITIONING EQUIPMENT SHALL BE 'HACR' TYPE. APPROVED MANUFACTURERS: GENERAL ELECTRIC OR SQUARE D.
- SAFETY SWITCHES: SAFETY SWITCHES SHALL CONSIST OF A BOX, HINGED LOCKING COVER, AND CIRCUIT PROTECTOR DEVICES, AND SHALL BE MANUFACTURED IN ACCORDANCE WITH NEMA STANDARDS AND SHALL BEAR APPLICABLE ALL LABEL. SWITCHES SHALL BE FUSED OR NON-FUSED, WITH AMPERAGE RATING AND NUMBER OF POLES AS SCHEDULED. APPROVED MANUFACTURERS: GENERAL ELECTRIC OR SQUARE D.

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REVISIONS:	DATE:

TITLE:  
**FOOD SERVICE  
PANEL AND  
ELECTRICAL  
RISER DIAGRAM**

DATE: 10/29/2020  
SCALE:  
DRAWN: \_\_\_\_\_ CHECKED:  
PROJECT #  
SHEET NO: **FS-E3**