
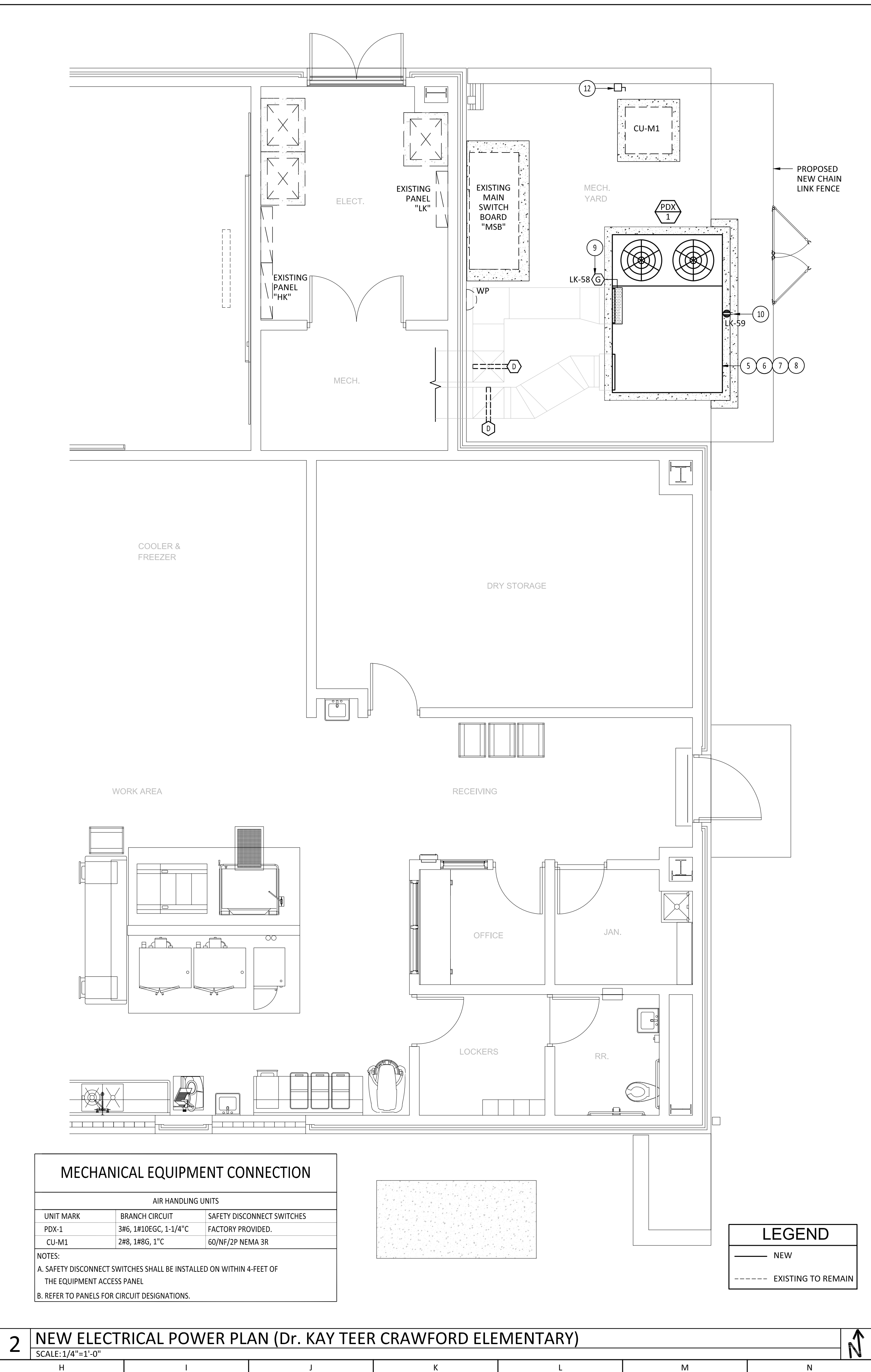

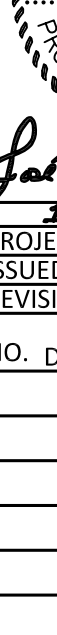

 SIGMA HN ENGINEERS, PLLC TBPE Firm No. F-14767 701 S. 15 th Street McAllen, Texas 78501	EDINBURG CISD GORENA, CRAWFORD, RAMIREZ, AND FLORES - ZAPATA ELEMENTARY HVAC KITCHEN UPGRADES EDINBURG, TX	 PROJECT NO.: 200007 ISSUED: 12/16/2020 REVISIONS: NO. DATE DESCRIPTION DRAWN BY: KA CHECKED BY: JAN SHEET TITLE: ELECTRICAL PLAN E-1.0
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		NO.	DATE	DESCRIPTION																														
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José Antonio Nicanor
12-16-2020

PROJECT NO.: 20007
 ISSUED: 12/16/2020

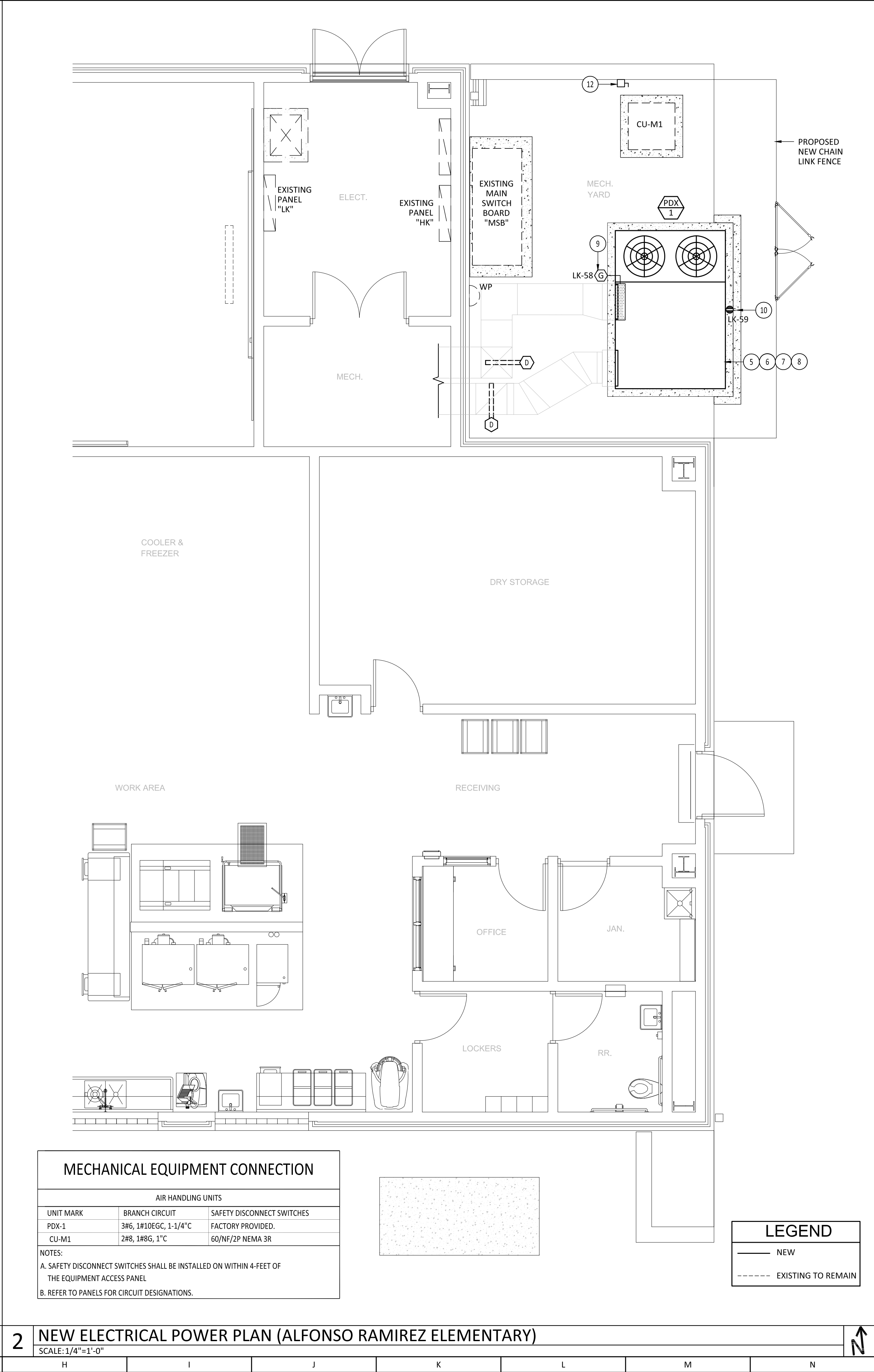
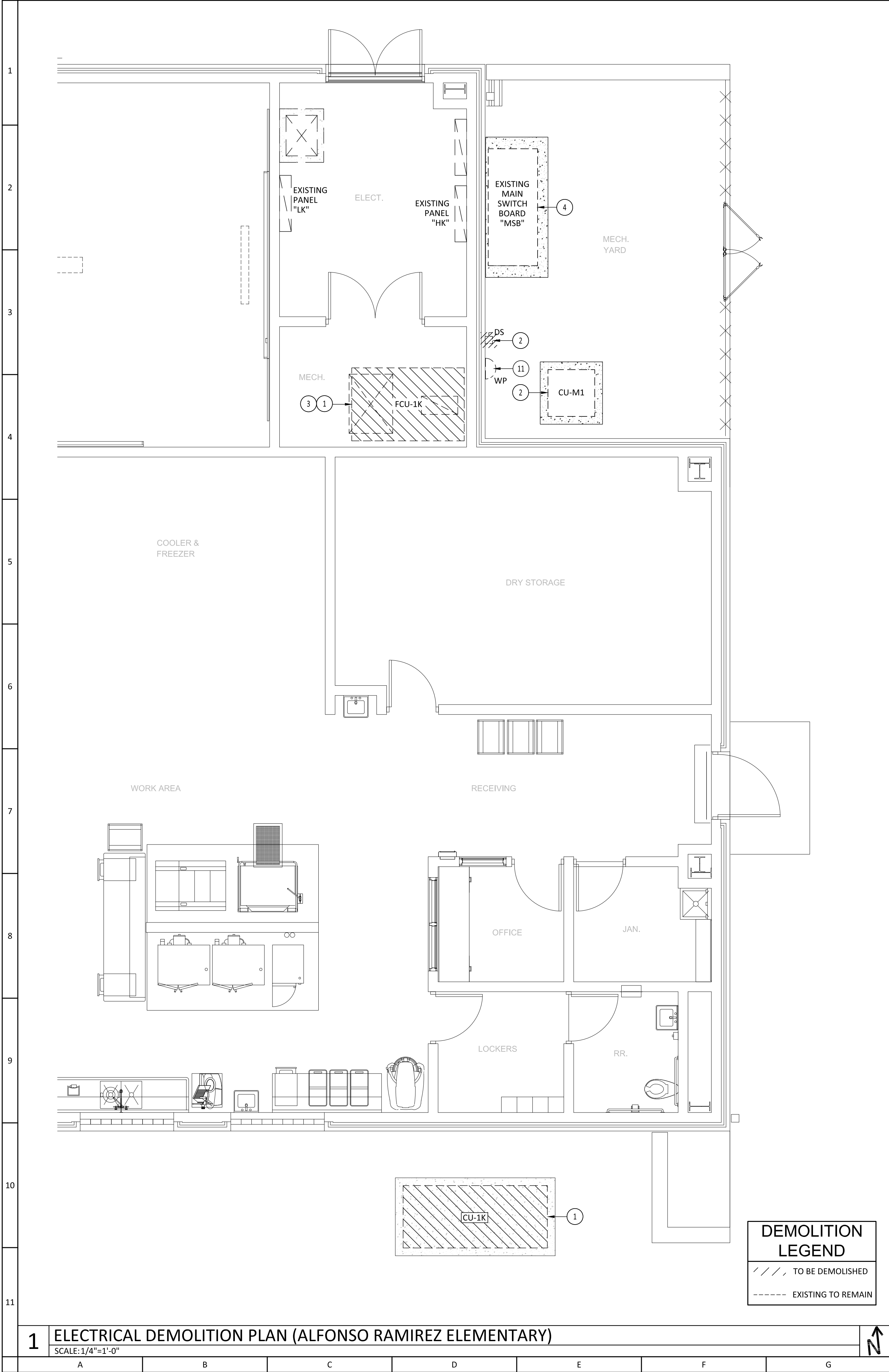
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ELECTRICAL
 PLAN

 E-1.1



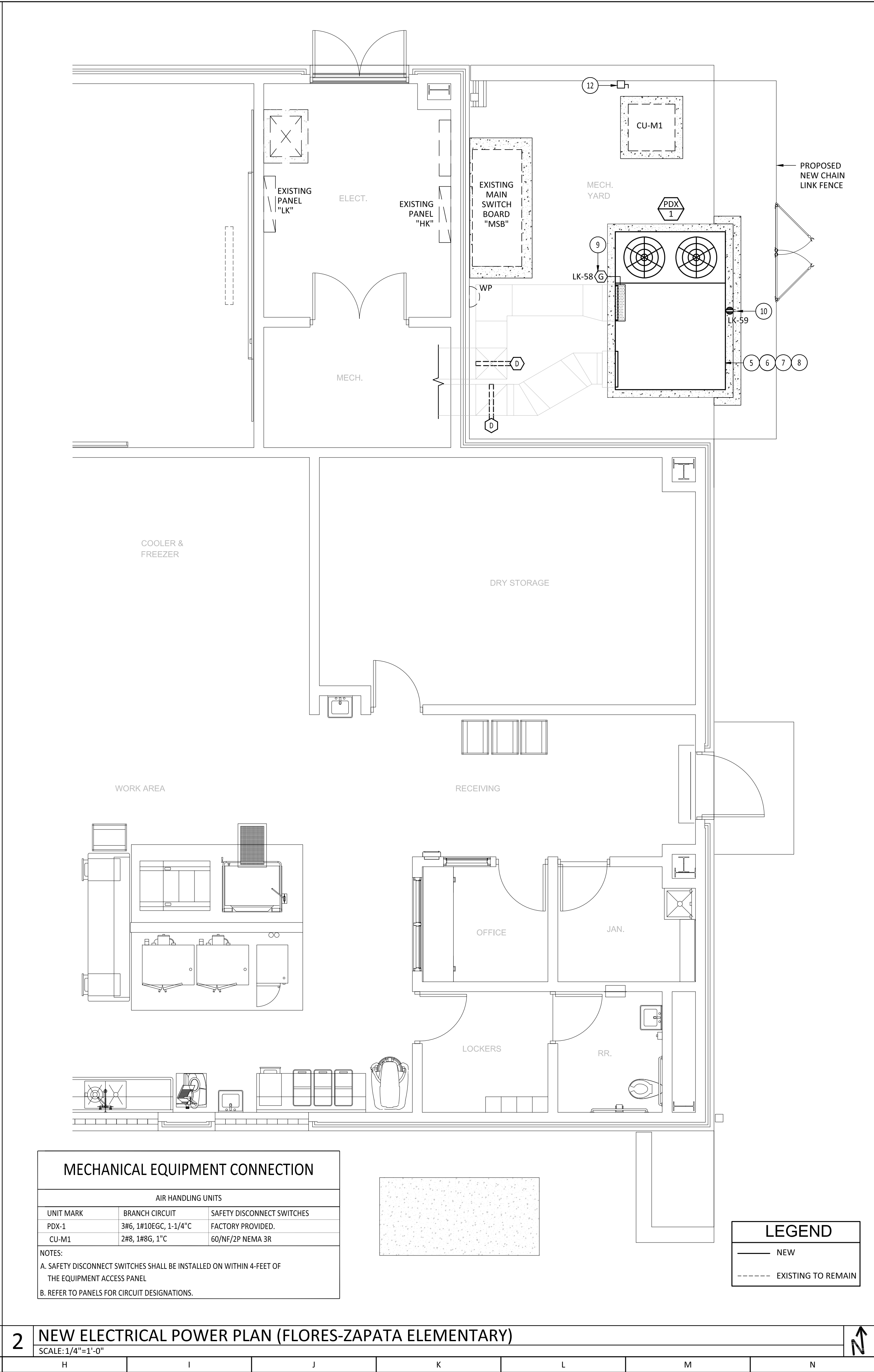
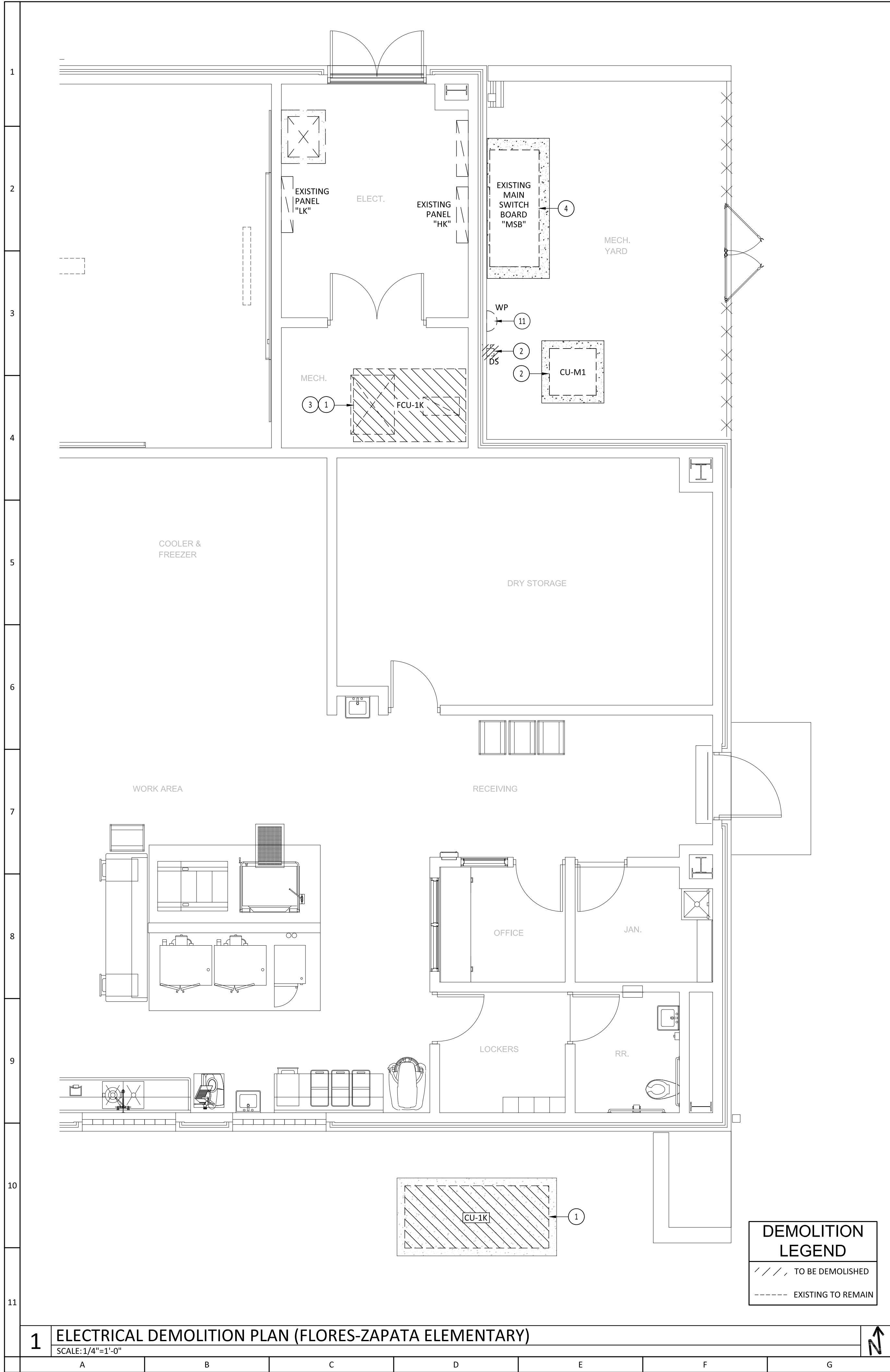
GENERAL NOTES:
A. REFER TO SHEET MEP-1.0 FOR GENERAL NOTES.
B. REFER TO PANEL SCHEDULES FOR EQUIPMENT BRANCH CIRCUITS.

KEY NOTES: (#)
1. EXISTING CONDENSING UNIT "CU-1K AND SPLIT DX SYTEMS AIR HANDLING UNIT "FCU-1K" TO BE DEMOLISH. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO DISCONNECT EXISTING ELECTRICAL FEEDER AND BRANCH CIRCUIT.
2. EXISTING CONDENSING UNIT "CU-M1" TO BE RELOCATED. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO RECONNECT EXISTING CONDENSING UNIT TO ITS EXISTING BRANCH CIRCUIT AND DEMOLISHED EXISTING SAFETY DISCONNECT SWITCH. FURNISH AND INSTALL NEW CIRCUIT BREAKER AND SAFETY DISCONNECT SWITCH.
3. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO DEMOLISH EXISTING DUCT SMOKE DETECTORS. RETURN TO OWNER OR DISCARD AT THE OWNER'S REQUEST.
4. EXISTING MAIN SWITCH BOARD "MSB" TO REMAIN.
5. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO CONNECT NEW PACKAGED DX UNIT. REFER TO MECHANICAL EQUIPMENT CONNECTION SCHEDULE FOR ELECTRICAL FEEDER AND CONDUIT SIZES, FURNISH AND INSTALL NEW SMOKE DETECTORS; CONNECT SMOKE DETECTORS TO EXISTING FIRE ALARM SYSTEM. ALL FEEDERS AND CONTROL'S WIRING SHALL BE INSTALLED USING FLOOR SUPPORTED FOOTINGS, GALVANIZED METAL CONDUIT, WITH LFMC WHIP FROM CONDUIT TO PDX UNIT.
6. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO FURNISH AND INSTALL NEW PHASE FAILURE MONITORING DEVICE EQUAL TO POWER STANDARDS (PSI) MODEL # PQUB3-PQ-E08N-PM-UPS1. INSTALL POWER MONITORING DEVICE INSIDE CONTROL ENCLOSURE.
7. FURNISH AND INSTALL NEW DATA DROP FOR INTERFACE WITH NEW POWER MONITORING DEVICE. ROUTE DATA DROP IN CONDUIT TO THE NEAREST IDF OR MDF ROOM COORDINATE WITH ECISD-IT DEPARTMENT REGARDING CABLING STANDARDS.
8. FURNISH AND INSTALL NEW BRANCH CIRCUIT BREAKER 40AMP/3 POLE, 65KAIC WITH LONG TIME, SHORT TIME AND INSTANTANEOUS ELECTRONIC SETTINGS IN EXISTING ELECTRICAL PANEL "HK".
9. ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR TO FURNISH AND INSTALL POWER FOR BIPOLAR IONIZATION DEVICE.
10. FURNISH AND INSTALL POWER FOR MAINTENANCE PURPOSE PACKAGED DX UNIT MOUNTED GFCI. CONTRACTOR SHALL INCLUDE IN HIS BID MATERIAL AND LABOR REQUIRED TO INSTALL POWER CONSISTING OF NEW BRANCH CIRCUIT WITH 2#12, 1#12 EGC, 1/2-INCH CONDUIT, AND 20/1-POLE BRANCH BREAKER. CONTRACTOR SHALL PROVIDE WARNING LABELS INDICATING THAT GFCI RECEPTACLE IS BEING SERVED BY A SEPARATE ELECTRICAL PANEL. ON THE WARNING LABEL, PROVIDE CIRCUIT AND ELECTRICAL PANEL IDENTIFICATION AND LOCATION. PACKAGED DX UNITS DUPLEX RECEPTACLES TO BE INSTALLED IN METAL FLEX CONDUIT WITHIN THE PACKAGE UNIT.
11. EXISTING WALL PACK LIGHT FIXTURE "WP" TO BE RELOCATED. CONTRACTOR SHALL INCLUDE IN HIS BID TO OWNER MATERIAL AND LABOR REQUIRED TO RECONNECT EXISTING WALL PACK LIGHT FIXTURE "WP" TO ITS EXISTING BRANCH CIRCUIT. REFER TO NEW ELECTRICAL POWER PLAN FOR NEW LOCATION AND SHEETS MD-1.4 & MD-1.5 FOR ADDITIONAL REFERENCE.
12. APPROXIMATE LOCATION OF NEW SAFETY DISCONNECT SWITCH FOR EXISTING CONDENSING UNIT "CU-M1".

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EDINBURG CISD
GORENA, CRAWFORD, RAMIREZ,
AND FLORES - ZAPATA ELEMENTARY
HVAC KITCHEN UPGRADES
EDINBURG, TX

STATE OF TEXAS
JOSE ANTONIO NICANOR
108783
LICENSED PROFESSIONAL ENGINEER
12.16.2020
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SHEET TITLE:
ELECTRICAL PLAN
E-1.2



GENERAL NOTES:

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B. REFER TO PANEL SCHEDULES FOR EQUIPMENT BRANCH CIRCUITS.

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ELECTRICAL PLAN
E-1.3

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EXISTING PANELBOARD "HK"

VOLTAGE: 480Y/277 VOLT 3 PHASE 4 WIRE

400A MAIN LUGS ONLY

BUSES: MAIN - 400A; NEUTRAL - 100%; EQUIPMENT GROUND

LOCATION: ELECTRICAL ROOM C130

MOUNTING: SURFACE, NEMA 1

Isc = 65,000 A RMS SYM AVAILABLE

VA-L	VA-R	VA-O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA-L	VA-R	VA-O
0		7756	PDX-1	40/3	1	A	2	50/3	SPARE	0		
0		7756	*	-	3	B	4	-	*	0		
0		7756	*	-	5	C	6	-	*	0		
0		5540	CONVECTION OVEN	30/3	7	A	8	30/3	DOUBLE STEAMER	0		4900
0		5540	*	-	9	B	10	-	*	0		4900
0		5540	*	-	11	C	12	-	*	0		4900
0			SHUNT TRIP	20/1	13	A	14	20/1	SHUNT TRIP	0		
0		37483	TLK	175/3	15	B	16	30/3	CONVECTION OVEN	0		5540
0		37483	*	-	17	C	18	-	*	0		5540
0		37483	*	-	19	A	20	-	*	0		5540
0			SPACE	20/1	21	B	22	20/1	SHUNT TRIP	0		
0			SPACE	20/1	23	C	24	30/3	CONVECTION OVEN	0		5540
0			SPACE	20/1	25	A	26	-	*	0		5540
0			SPACE	20/1	27	B	28	-	*	0		5540
0			SPACE	20/1	29	C	30	20/1	SHUNT TRIP	0		
0			SPACE	20/1	31	A	32	30/3	CONVECTION OVEN	0		5540
0			SPACE	20/1	33	B	34	-	*	0		5540
0			SPACE	20/1	35	C	36	-	*	0		5540
0			SPACE	20/1	37	A	38	20/1	SHUNT TRIP	0		
0			SPACE	20/1	39	B	40	20/1	SPACE	0		
0			SPACE	20/1	41	C	42	20/1	SPACE	0		

NOTE: SHADED CELL INDICATE NEW CIRCUIT BREAKER REQUIRED.

VA-L (LIGHTING)0 CONNECTED0 DEMAND

VA-R (RECEPTACLES)0 CONNECTED0 DEMAND

VA-O (OTHER)216897 CONNECTED216897 DEMAND

VA: TOTAL216897 CONNECTED216897 DEMAND

AMPS: TOTAL261 CONNECTED261 DEMAND

LRO072299VA CONNECTED TO A PHASE72299VA =0072299VA CONNECTED TO B PHASE72299VA =0072299VA CONNECTED TO C PHASE72299VA =00216897TOTAL216897VA

261 AMPS CONNECTED TO A PHASE @ 277 VOLTS

261 AMPS CONNECTED TO B PHASE @ 277 VOLTS

261 AMPS CONNECTED TO C PHASE @ 277 VOLTS

EXISTING PANELBOARD "LK"

VOLTAGE: 208Y/120 VOLT 3 PHASE 4 WIRE

400A MAIN LUGS ONLY

BUSES: MAIN - 400A; NEUTRAL - 100%; EQUIPMENT GROUND

LOCATION: ELECTRICAL ROOM C130

MOUNTING: SURFACE, NEMA 1

Isc = 22,000 A RMS SYM AVAILABLE

VA-L	VA-R	VA-O	LOAD	BKR	CKT	PH	CKT	BKR	LOAD	VA-L	VA-R	VA-O
0	0	3750	FCU-M1	60/	1	A	2	40/2	CU-M1	0	0	2000
0	0	3750	*	-	3	B	4	-	*	0	0	2000
0	0	360	RECEPTACLES	20/1	5	C	6	20/1	RECEPTACLES	0	0	360
0	0	360	RECEPTACLES	20/1	7	A	8	20/1	RECEPTACLES	0	0	360
0	0	200	FIRE PROTEC. SYS.	20/1	9	B	10	20/1	RECEPTACLES	0	0	360
0	0	600	POS	20/1	11	C	12	80/3	LOAD CENTER	0	0	8100
0	0	1632	ICE MACHINE	20/1	13	A	14	-	*	0	0	8100
0	0	1272	DISPOSER	20/3	15	B	16	-	*	0	0	8100
0	0	1272	*	-	17	C	18	20/1	REFRIGERATOR	0	0	1000
0	0	1272	*	-	19	A	20	20/1	RECEPTACLES	0	0	360
0	0	811	PASS THRU HOT	20/2	21	B	22	20/1	EXH. LIGHTING	0	0	600
0	0	811	*	-	23	C	24	20/1	SLICER	0	0	300
0	0	1200	MIXER	20/3	25	A	26	50/3	BURNER RANGE	0	0	4500
0	0	1200	*	-	27	B	28	-	*	0	0	4500
0	0	1200	*	-	29	C	30	-	*	0	0	4500
0	0	790	DISPOSER	20/3	31	A	32	20/1	SHUNT TRIP	0	0	
0	0	790	*	-	33	B	34	20/1	LIGHTS	0	0	600
0	0	790	*	-	35	C	36	20/1	DOOR HEATER	0	0	600
0	0	1600	REF. SYS - COOLER	20/2	37	A	38	40/2	REF. SYS. - FREEZER	0	0	3000
0	0	1600	*	-	39	B	40	-	*	0	0	3000
0	0	700	LIGHT	20/1	41	C	42	50/3	BRASING PAN	0	0	4500
0	0	900	DOOR HEATER	20/1	43	A	44	-	*	0	0	4500
0	0	552	MILK CABINET	20/1	45	B	46	-	*	0	0	4500
0	0	800	FSD	20/1	47	C	48	20/1	SHUNT TRIP	0	0	
0	0	360	RECEPTACLES	20/1	49	A	50	20/1	RECEPTACLES	0	0	360
0	0	600	EF-C3	20/1	51	B	52	25/3	EWV-1C	0	0	2000
0	0	600	EF-C2	20/1	53	C	54	-	*	0	0	2000
0	0	720	AIR SCREEN	20/1	55	A	56	-	*	0	0	2000
0	0	400	CP-1	20/1	57	B	58	20/1	BIPOLAR IONIZATION DEVICE	0	0	120
0	180		GFCI RECP. PDX-1	20/1	59	C	60	20/1	SPACE	0	0	
0	0		SPACE	20/1	61	A	62	20/1	SPACE	0	0	
0	0		SPACE	20/1	63	B	64	20/1	SPACE	0	0	
0	0		SPACE	20/1	65	C	66	20/1	SPACE	0	0	
0	0		SPACE	20/1	67	A	68	20/1	SPACE	0	0	
0	0		SPACE	20/1	69	B	70	20/1	SPACE	0	0	
0	0		SPACE	20/1	71	C	72	20/1	SPACE	0	0	
0	0		SPACE	20/1	73	A	74	20/1	SPACE	0	0	
0	0		SPACE	20/1	75	B	76	20/1	SPACE	0	0	
0	0		SPACE	20/1	77	C	78	20/1	SPACE	0	0	
0	0		SPACE	20/1	79	A	80	20/1	SPACE	0	0	
0	0		SPACE	20/1	81	B	82	20/1	SPACE	0	0	
0	0		SPACE	20/1	83	C	84	20/1	SPACE	0	0	

NOTE: SHADED CELL INDICATE NEW CIRCUIT BREAKER REQUIRED.

VA-L (LIGHTING)0 CONNECTED0 DEMAND

VA-R (RECEPTACLES)180 CONNECTED180 DEMAND

VA-O (OTHER)103212 CONNECTED103212 DEMAND

VA: TOTAL103392 CONNECTED103392 DEMAND

AMPS: TOTAL287 CONNECTED287 DEMAND

LRO037764VA CONNECTED TO A PHASE37764VA =0036955VA CONNECTED TO B PHASE36955VA =018028493VA CONNECTED TO C PHASE28673VA =0180103212TOTAL103392VA

315 AMPS CONNECTED TO A PHASE @ 120 VOLTS

308 AMPS CONNECTED TO B PHASE @ 120 VOLTS

239 AMPS CONNECTED TO C PHASE @ 120 VOLTS

ELECTRICAL GENERAL LEGEND

ALL SYMBOLS SHOWN MAY NOT APPEAR IN ALL DRAWINGS.
SYMBOLS ARE SHOWN SCHEMATIC AND MAY NOT BE TO SCALE.

SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)	SYMBOL	DESCRIPTION	MNTG. HT. UNO (SEE NOTE 1)
	POWER			FIRE ALARM	
	DUPLEX RECEPTACLE - 20A/125V/1P/3W/G	15" AFF		FIRE ALARM VOICE EVACUATION SPEAKER.	-
	DUPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; C = CEILING MOUNTED.	15" AFF		FIRE ALARM PULL STATION	48" AFF
	DUPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH ISOLATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	15" AFF		FIRE ALARM AUDIBLE/VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	QUADPLEX RECEPTACLE, 20A, GROUND FAULT INTERCEPTOR; CLG = CEILING MOUNTED.	AS REQD.		FIRE ALARM AUDIBLE SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	QUADPLEX RECEPTACLE, 20A, INSULATED GROUND DEVICE WITH ISOLATED GROUNDING CONDUCTOR; CLG = CEILING MOUNTED.	AS REQD.		FIRE ALARM VISUAL SIGNAL; WP = WEATHER PROOF; S = WITH INTEGRAL VOICE ACTIVATED SPEAKER.	80" AFF
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT	AS REQD.		FIRE ALARM SPRINKLER FLOW SWITCH	-
	SPECIAL PURPOSE RECEPTACLE; MOTOR OR EQUIPMENT CONNECTION	AS REQD.		FIRE ALARM SPRINKLER TAMPER SWITCH	-
	JUNCTION BOX - SIZE & MOUNTING AS REQUIRED	15" AFF		FIRE ALARM SMOKE DETECTOR CEILING OR WALL MOUNTED	AS REQD.
	AUDIO, VIDEO, DATA, AND POWER FLOOR BOX WIRING DIVICE. FURNISH AND INSTALL EQUAL LEGRAND #RBF11; FURNISH WITH THE FOLLOWING: QTY (2) IG DUPLEX RECEPTACLES AND 6-PORT-DATA WIRING DEVICE PLATE TO ACCOMODATE CATEGORY 6A CABELING. FLOOR BOX CONVER TO MATCH FINISH FLOOR TYPE (IE. CARPET, TILE, WOOD, ETC.)	FLOOR		HEAT DETECTOR CEILING OR WALL MOUNTED	AS REQD.
				FIRE ALARM INTERFACE RELAY	-
				DUCT SMOKE DETECTOR	AS REQD.
	FURNITURE FEED POKE THRU BOX FOR POWER. FURNISH AND INTALL EQUAL TO LEGRAND 6ATCF WITH THE FOLLOWING: 58LH OUTER COMPARTMENT 1 175CHA & 18HA CENTER COMPARTMENT 58LH OUTER COMPARTMENT 1	SECOND FLOOR		FIRE ALARM CONTROL PANEL	AS REQD.
	FIRE ALARM ANNUNCIATOR PANEL			FIRE ALARM EXTENDING PANEL	AS REQD.
	VOICE ACTIVATED FIRE ALARM PANEL			SWITCH	
	3 WAY LIGHT SWITCH			MAGNETIC DOOR HOLDER, FLOOR MOUNTED	AS REQD.
	DOOR STATUS SWITCH			AUTOMATIC DOOR OPERATOR	AS REQD.

GENERAL ABBREVIATIONS

ABS	ABOVE BACK SPLASH	NC (N.C.)	NORMALLY CLOSED
AFF	ABOVE FINISHED FLOOR	NF	NONFUSED
BFC	BELOW FINISHED CEILING	NIC	NOT IN CONTRACT
C	CONDUIT	NL	NIGHT LIGHT
CB	CIRCUIT BREAKER	NO (N.O.)	NORMALLY OPEN
CLG	CEILING	PNL	PANEL
EC	EMPTY CONDUIT	RCPT(S)	RECEPTACLE(S)
EP	ELECTRICAL PRIMARY	SO (S.O.)	SPACE ONLY
EX	EXISTING	SP	SPARE
F	FUSE	SPD	SURGE PROTECTION DEVICE
G	GROUND (EQUIPMENT)	ST (S.T.)	SHUNT TRIP
GFI	GROUND FAULT INTERRUPTER	SW	SWITCH
HCC	HORIZONTAL CROSS CONNECT	TYP	TYPICAL
IC	INTERRUPTING CAPACITY	UF	UNDERFLOOR
ICC	INTERMEDIATE CROSS CONNECT	UG	UNDERGROUND
IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
MTD	MOUNT OR MOUNTED	WG	WIRE GUARD
		WP	WEATHERPROOF
		XFMR	TRANSFORMER

NOTES:
1. 48" AFF INDICATES TO TOP OF DEVICE; 15" AFF INDICATES TO BOTTOM OF DEVICE; ALL OTHER MOUNTING HEIGHTS REFER TO CENTERLINE OF DEVICE.

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ELECTRICAL PANEL SCHEDULES & GENERAL LEGEND (GORENA, CRAWFORD, RAMIREZ & FLORES-ZAPATA ELEMENTARY)

SCALE: N.T.S.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
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SIGMA ENGINEERS, PLLC

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McAllen, Texas 78501

EDINBURG CISD
GORENA, CRAWFORD, RAMIREZ,
AND FLORES - ZAPATA ELEMENTARY
HVAC KITCHEN UPGRADES
EDINBURG, TX

STATE OF TEXAS
108783
JOSE ANTONIO NICANOR
PROFESSIONAL ENGINEER

PROJECT NO.: 20007
ISSUED: 12/16/2020
REVISIONS:
NO. DATE DESCRIPTION

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CHECKED BY: JAN
SHEET TITLE:
ELECTRICAL
SCHED.& LEGEND

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