



MDP		VOLTS 240/120V 2P 3W		AIC 65,000			
ROOM MAIN ELECTRIC ROOM		BUS AMPS 1600		MAIN BKR 1600			
MOUNTING SURFACE		NEUTRAL 100%		LUGS STANDARD			
FED FROM UTILITY							
NOTE EXISTING							
CKT #	BREAKER TRIP/POLES	CIRCUIT DESCRIPTION	LOAD KVA		FEEDER RACEWAY AND CONDUCTORS		
			A	B			
1	100/2	PANEL P	7.73	4.6	1-1/4"C,2#1,#1N,#8G		
2	800/2	EXT PANEL F	0	0	-		
3	800/2	EXT PANEL G	0	0	-		
4	200/2	EXT LOAD	0	0	-		
5	20/2	SPACE	0	0			
6	20/2	SPACE	0	0			
7	20/2	SPACE	0	0			
8	20/2	SPACE	0	0			
9	20/2	SPACE	0	0			
10	20/2	SPACE	0	0			
11	20/2	SPACE	0	0			
12	20/2	SPACE	0	0			
13	20/2	SPACE	0	0			
14	20/2	SPACE	0	0			
15	20/2	SPACE	0	0			
16	20/2	SPACE	0	0			
17	20/2	SPACE	0	0			
18	20/2	SPACE	0	0			
19	20/2	SPACE	0	0			
20	20/2	SPACE	0	0			
TOTAL CONNECTED KVA BY PHASE			7.73	4.6			
			CONN KVA	CALC KVA			
LIGHTING	0.647	0.809	(125%)	RECEPTACLES	3.74	3.74	(50%>10)
LARGEST MOTOR	6.03	1.51	(25%)	CONTINUOUS	1.92	2.4	(125%)
				COOLING	6.03	6.03	(100%)
			TOTAL LOAD		14.5		
			BALANCED LOAD		60.4 A		

Panel P		ROOM CORRIDOR 5		VOLTS 240/120V 2P 3W		AIC 65,000	
MOUNTING RECESSED		BUS AMPS 100		MAIN BKR 100		LUGS STANDARD	
FED FROM MDP		NEUTRAL 100%					
NOTE NEW							
CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	CKT BKR	LOAD KVA	CIRCUIT DESCRIPTION
1	20/1	0.54	RM 4 RECEPTACLE	a	2	20/1	0.5
3	20/1	0.36	RM 4 RECEPTACLE	b	4	20/1	0.147
5	20/1	0.36	RM 3 RECEPTACLE	a	6	30/1	1.92
7	20/1	0.36	RECEPTION RECEPTACLE	b	8	50/2	6.03
9	20/1	0.36	RECEPTION RECEPTACLE	a	10		
11	20/1	0.36	RECEPTION RECEPTACLE	b	12	20/1	0
13	20/1	0.54	CORRIDOR RECEPTACLE	a	14	20/1	0
15	20/1	0.18	EXTERIOR RECEPTACLE	b	16	20/1	0
17	20/1	0.5	COPIER/PRINTER	a	18	20/1	0
19	20/1	0.18	ROOF RECEPTACLE	b	20	20/1	0
21	20/1	0	SPACE	a	22	20/1	0
23	20/1	0	SPACE	b	24	20/1	0
25	20/1	0	SPACE	a	26	20/1	0
27	20/1	0	SPACE	b	28	20/1	0
29	20/1	0	SPACE	a	30	20/1	0
31	20/1	0	SPACE	b	32	20/1	0
33	20/1	0	SPACE	a	34	20/1	0
35	20/1	0	SPACE	b	36	20/1	0
37	20/1	0	SPACE	a	38	20/1	0
39	20/1	0	SPACE	b	40	20/1	0
41	20/1	0	SPACE	a	42	20/1	0
			CONN KVA	CALC KVA	CONN KVA	CALC KVA	
LIGHTING	0.647	0.809	(125%)	RECEPTACLES	3.74	3.74	(50%>10)
LARGEST MOTOR	6.03	1.51	(25%)	CONTINUOUS	1.92	2.4	(125%)
				COOLING	6.03	6.03	(100%)
			TOTAL LOAD		14.5		
			BALANCED LOAD		60.4 A		
			PHASE A		125%		
			PHASE B		74.6%		

- GENERAL NOTES**
- AIC RATINGS ARE ESTIMATED BASED ON AVAILABLE DATA DURING DESIGN. CONTRACTOR TO VERIFY AVAILABLE FAULT CURRENT WITH UTILITY.
  - FAULT CURRENT, ARC FLASH, AND COORDINATION STUDY SHALL BE PERFORMED BY A THIRD PARTY ONCE EXACT PANEL PLACEMENT AND DISTANCES ARE DETERMINED. REFER TO SPECIFICATIONS SECTION 26 0573 FOR MORE INFORMATION.
  - PROVIDE A MINIMUM OF 10 SPARE 1P20A BREAKERS FOR EACH 120V SUB-PANEL.

DW  
drawn by  
TVO  
checked by  
APRIL 2023  
date  
revisions

MOORE PUBLIC SCHOOLS  
BOARD OF EDUCATION  
MOORE, OKLAHOMA

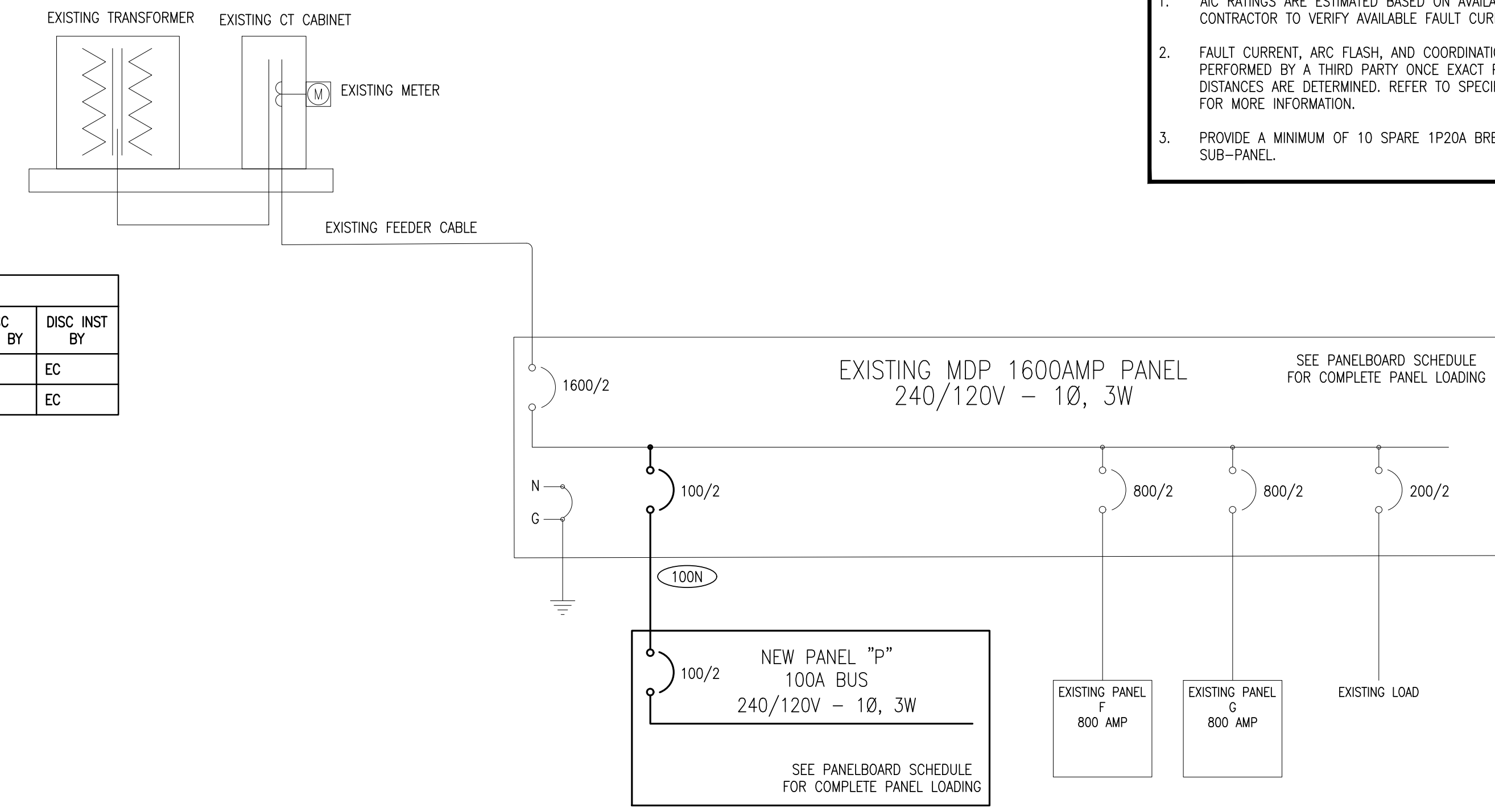


OFFICE  
ADDITION -  
SOUTHGATE  
ELEMENTARY SCHOOL

sheet no:  
**E401**

**Salas O'Brien**  
2600 Van Buren St., Suite 2635  
Norman, OK 73072  
Salas O'Brien Registration: CA# 7058  
Expiration Date: 6/30/2023  
Salas O'Brien Project Number: 2023-01140-00

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MECHANICAL EQUIPMENT SCHEDULE											
CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC PROV BY	DISC INST BY
CU-1	CONDENSING UNIT	240V 2P 2W		6.03	31.4	50	P-8,10	3/4"C,2#8,#10G	NON-FUSED	EC	EC
F-1	GAS FURNACE	120V 1P 2W	1 HP	1.92	20	30	P-6	3/4"C,1#12,#12N,#12G	NON-FUSED	EC	EC

**1 ELECTRICAL ONE-LINE DIAGRAM**  
NO SCALE