Switchboard: MDP

VOLTAGE:	120/208 Wye	**COPPER BUS RATING:**	1200 A	**MAINS TYPE:**	MCB		
LOCATION:		**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	1200A
MOUNTING:	Wall Mounted	**WIRES:**	4	**MINIMUM A.I.C. RATING:**		**FED FROM:**	
ENCLOSURE:	3R	**MFR. AND TYPE**	SQUARE D I-LINE	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

Circuit Number	Load Name	Circuit Breaker	A	B	C
1	EXISTING MAIN PANEL	600A	57643 VA	57643 VA	57643 VA
2	R	400A	27040 VA	27300 VA	27040 VA
3	PANEL 'A'	225A	1605 VA	4085 VA	3985 VA
4	SPD	100A	0 VA		
5	225A SPACE W/ BUS	225A	0 VA		
6					
7					
8					
9					
10					
11					
12					
	Total Load:		86287 VA	89027 VA	88667 VA
	Total Amps:		719 A	745 A	742 A

Load Classification	Connected Load	Demand Factor	Esitmated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA	**Total Connected Load:**	263982 VA
Receptacles	360 VA	100.00%	360 VA	**Total Estimated Demand:**	263982 VA
HVAC	90294 VA	100.00%	90294 VA	**Total Connect Current:**	733 A
Other	173328 VA	100.00%	173328 VA	**Total Est. Demand Current:**	733 A
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:
COPPER BUS

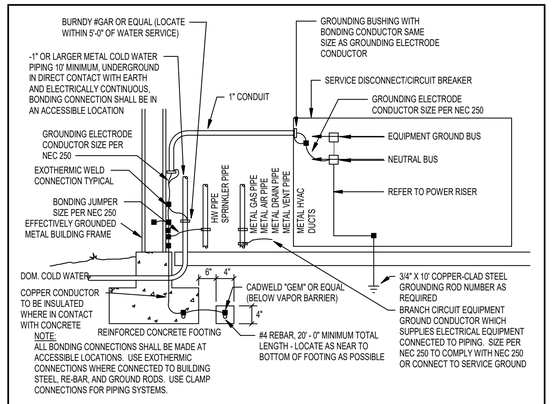
Panelboard: PANEL 'A'

VOLTAGE:	120/208 Wye	**COPPER BUS RATING:**	225 A	**MAINS TYPE:**	MLO		
LOCATION:		**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	
MOUNTING:	SURFACE	**WIRES:**	4	**MINIMUM A.I.C. RATING:**		**FED FROM:**	MDP
ENCLOSURE:	Type 1	**MFR. AND TYPE:**	SQUARE D NQ	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

Circuit Number	Load Name	BRKR	A		B		C		BRKR	Load Name	Circuit Number
1	B-1	20A/1P	100	1105					20A/3P	UH-1	2
3	B-2	20A/1P			100	1105					4
5	EXISTING LOAD	20A/1P					0	1105			6
7	EXISTING LOAD	20A/1P	0	200					20A/1P	HVAC CONTROL PANEL	8
9	EXISTING LOAD	20A/1P			0	2880			40A/1P	BCU-1	10
11	EXISTING LOAD	20A/1P					0	2880	40A/1P	BCU-2	12
13	EXISTING LOAD	20A/1P	0	200					20A/1P	HVAC CONTROL PANEL	14
15	EXISTING LOAD	20A/1P			0	0			20A/1P	SPARE	16
17	EXISTING LOAD	20A/1P					0	0	20A/1P	SPARE	18
19	EXISTING LOAD	20A/1P	0	0					20A/1P	SPARE	20
21	EXISTING LOAD	20A/1P			0	0			20A/1P	SPARE	22
23	EXISTING LOAD	20A/1P					0	0	20A/1P	SPARE	24
25	EXISTING LOAD	20A/1P	0	0					20A/1P	SPARE	26
27	EXISTING LOAD	20A/1P			0	0			20A/1P	SPARE	28
29	EXISTING LOAD	20A/1P					0	0	20A/1P	SPARE	30
31	EXISTING LOAD	20A/1P	0	0					20A/1P	SPARE	32
33	EXISTING LOAD	20A/1P			0	0			20A/1P	SPARE	34
35	EXISTING LOAD	20A/1P					0	0	20A/1P	SPARE	36
37	EXISTING LOAD	20A/1P	0	0					20A/1P	SPARE	38
39	EXISTING LOAD	20A/1P			0	0			20A/1P	SPARE	40
41	EXISTING LOAD	20A/1P					0	0	20A/1P	SPARE	42
43	EXISTING LOAD	20A/1P	0	0					20A/1P	SPARE	44
45	EXISTING LOAD	30A/2P			0	0			20A/1P	SPARE	46
47	-	-					0	0	20A/1P	SPARE	48
	Total Load:		1605 VA		4085 VA		3985 VA				
	Total Amps:		13 A		37 A		36 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA	**Total Connected Load:**	9674 VA
Receptacles	0 VA	0.00%	0 VA	**Total Estimated Demand:**	9674 VA
HVAC	9274 VA	100.00%	9274 VA	**Total Connected Current:**	27 A
Power	0 VA	0.00%	0 VA	**Total Est. Demand Current:**	27 A
Other	400 VA	100.00%	400 VA		
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:
COPPER BUS



2 SERVICE GROUNDING DETAIL
NOT TO SCALE

Panelboard: R

VOLTAGE:	120/208 Wye	**COPPER BUS RATING:**	400 A	**MAINS TYPE:**	MLO		
LOCATION:		**PHASE:**	3	**GROUND BUS:**		**MCB RATING:**	
MOUNTING:	SURFACE	**WIRES:**	4	**MINIMUM A.I.C. RATING:**		**FED FROM:**	MDP
ENCLOSURE:	3R	**MFR. AND TYPE:**	SQUARE D NQ	**SUBFEED LUGS:**		**NEUTRAL RATING:**	

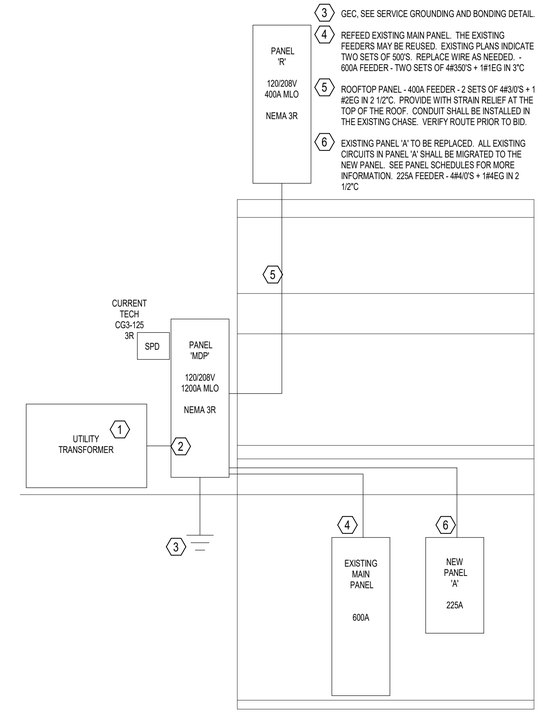
Circuit Number	Load Name	BRKR	A		B		C		BRKR	Load Name	Circuit Number
1	EF-2	20A/1P	100	100					20A/1P	EF-3	2
3	EF-4	20A/1P			100	360			20A/1P	ROOF RECEPTS	4
5	EF-5	20A/1P					100	100	20A/1P	HVAC	6
7	RTU-1	125A/3P	8274	0					20A/1P	SPARE	8
9					8274	--				SPACE	10
11							8274	--		SPACE	12
13	CU-2	90A/3P	10292	--						SPACE	14
15					10292	--				SPACE	16
17							10292	--		SPACE	18
19	CU-1	90A/3P	8274	--						SPACE	20
21					8274	--				SPACE	22
23							8274	--		SPACE	24
	Total Load:		27040 VA		27300 VA		27040 VA				
	Total Amps:		225 A		227 A		225 A				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	0 VA	0.00%	0 VA	**Total Connected Load:**	81380 VA
Receptacles	360 VA	100.00%	360 VA	**Total Estimated Demand:**	81380 VA
HVAC	81020 VA	100.00%	81020 VA	**Total Connected Current:**	226 A
Power	0 VA	0.00%	0 VA	**Total Est. Demand Current:**	226 A
Other	0 VA	0.00%	0 VA		
Motor	0 VA	0.00%	0 VA		
Heating	0 VA	0.00%	0 VA		
Existing Load	0 VA	0.00%	0 VA		

Notes:
COPPER BUS

POWER RISER KEYED NOTES:

1. EXISTING UTILITY TRANSFORMER MAY BE REPLACED. VERIFY WITH UTILITY.
2. PROVIDE AND INSTALL NEW I LINE PANEL TO SERVE AS THE NEW SERVICE FOR THE BUILDING. SEE PANEL SCHEDULES - 1200A FEEDER - 4 SETS OF 3#350'S IN 3"C.
3. GEC, SEE SERVICE GROUNDING AND BONDING DETAIL.
4. REFEED EXISTING MAIN PANEL. THE EXISTING FEEDERS MAY BE REUSED. EXISTING PLANS INDICATE TWO SETS OF 500'S. REPLACE WIRE AS NEEDED. - 600A FEEDER - TWO SETS OF 4#350'S + 1#1EG IN 3"C
5. ROOFTOP PANEL - 400A FEEDER - 2 SETS OF 4#3/0'S + 1 #2EG IN 2 1/2"C. PROVIDE WITH STRAIN RELIEF AT THE TOP OF THE ROOF. CONDUIT SHALL BE INSTALLED IN THE EXISTING CHASE. VERIFY ROUTE PRIOR TO BID.
6. EXISTING PANEL 'A' TO BE REPLACED. ALL EXISTING CIRCUITS IN PANEL 'A' SHALL BE MIGRATED TO THE NEW PANEL. SEE PANEL SCHEDULES FOR MORE INFORMATION. 225A FEEDER - 4#4/0'S + 1#4EG IN 2 1/2"C



1 POWER RISER DIAGRAM
NOT TO SCALE

MECHANICAL RENOVATIONS FOR:
CRAIGHEAD COUNTY COURTHOUSE
Jonesboro, Arkansas

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Tag	Rev. Description	Rev. Date	Issued by

Revision Schedule

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 12363 ANTHONY DAVID ATKINSON 10-11-24

PETTIT & PETTIT
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LITTLE ROCK, ARKANSAS

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Commission Number 2309D

E201

Date: November 11, 2024

ELECTRICAL DETAILS & RISERS

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