

PANEL		NP1		MAIN: 125A MCB				VOLTAGE: 208Y/ 120 3 PH 4 W						
A/C:		10,000		MOUNTING: SURFACE				NOTE:						
LOCATION:		OUTSIDE ROOM B03A												
CKT	EQUIPMENT SERVED	LOAD (KVA)			BREAKER P AMPS	BREAKER P AMPS	LOAD (KVA)			EQUIPMENT SERVED	CKT			
		A	B	C			A	B	C					
1	CU-4	1.10			2	20	1	20	0.30		ELEV. F-1 MACHINE RM. LTG.	2		
3	**		1.10		**	**	1	20		0.20	ELEV. F-1 MACHINE RM. RECEPT.	4		
5	SPARE				1	20	1	20			0.40	ELEV. F-1 PIT AND SHAFT. LTG.	6	
7	OUTDOOR RECEPT.	0.20			1	20	1	20	0.20		ELEV. F-1 PIT RECEPT.	8		
9	OUTDOOR RECEPT.		0.20		1	20	1	20		1.20	ELEV. F-1 PIT SUMP PUMP	10		
11	ELEV. P-1 CAB LIGHTS			0.10	1	20	1	20			SPARE	12		
13	ELEV. P-2 CAB LIGHTS	0.10			1	20	1	20	0.20		ELEV. P-2 MACHINE RM. LTG.	14		
15	ELEV. P-2 PIT AND SHAFT LIGHTS		0.30		1	20	1	20		0.20	ELEV. P-2 MACHINE RM. RECEPT.	16		
17	CU-3			0.70	2	20	1	20		0.20	ELEV. P-2 PIT RECEPT.	18		
19	**	0.70			**	**	1	20	1.20		ELEV. P-2 SUMP PUMP	20		
21	ELEV. SHAFT EXH. FAN		1.30		3	20	2	20		0.10	AC-4	22		
23	**			1.30	**	**	**	**			0.10	**	24	
25	**	1.30			**	**	2	20	0.10		AC-3	26		
27	SPACE				1	PS	**	**		0.10	**	28		
29	SPACE				1	PS	1	PS			SPACE	30		
31	SPACE				1	PS	1	PS			SPACE	32		
33	SPACE				1	PS	1	PS			SPACE	34		
35	SPACE				1	PS	1	PS			SPACE	36		
37	SPACE				1	PS	1	PS			SPACE	38		
39	SPACE				1	PS	1	PS			SPACE	40		
41	SPACE				1	PS	1	PS			SPACE	42		
		3.40	2.90	2.10	SUB-TOTALS				2.00	1.80	0.70			
CONNECTED LOAD:														
A:		5.40 KVA		=		45.0 A				12.90		TOTAL CONNECTED LOAD (KVA)		
B:		4.70 KVA		=		39.2 A								
C:		2.80 KVA		=		23.3 A								
NOTE:														
(1) PROVIDE PANELBOARD.														

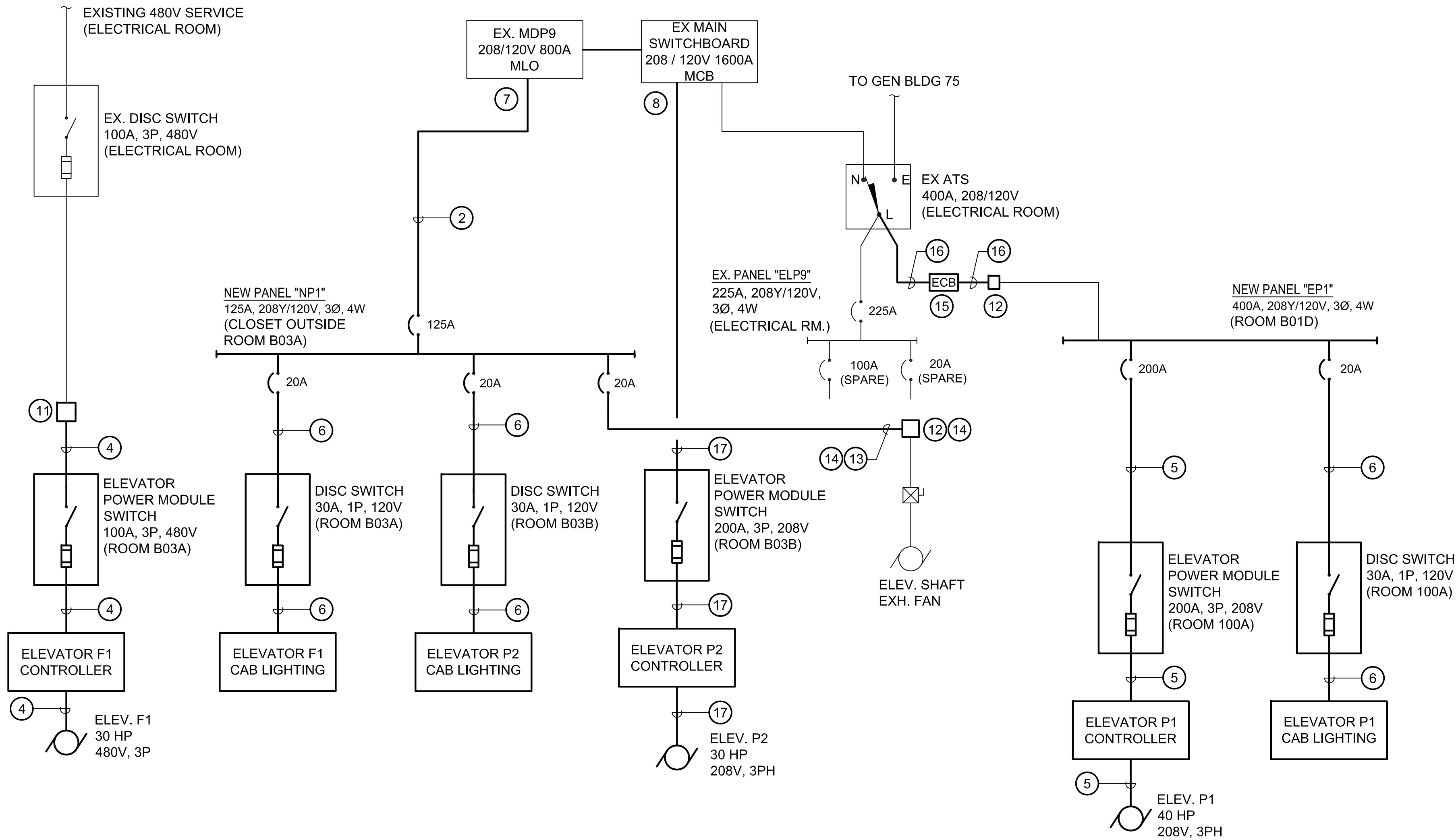
PANEL		EP1		MAIN: 400A MLO				VOLTAGE: 208Y/ 120 3 PH 4 W				
AIC: 10,000		MOUNTING: SURFACE				NOTE:						
LOCATION: ROOM B01D												
CKT	EQUIPMENT SERVED	LOAD (KVA)			BREAKER	LOAD (KVA)			EQUIPMENT SERVED	CKT		
		A	B	C	P AMPS	P AMPS	A	B			C	
1	ELEVATOR P-1	13.70			3 200	2	20	1.00	EXISTING LOAD (AC COMP INT. RM.	2		
3	**	13.70		**	**	**	**	1.00	**	4		
5	**			13.70	**	**			0.40	EXISTING LOAD (INTERCOM PANEL)	6	
7	ELEV. P-1 CAB LIGHTS	0.10			1 20	1	20		SPARE	8		
9	SPACE				1 20	1	20		SPACE	10		
11	ELEV. P-1 MACHINE RM LTG.		0.20		1 20	1	20		SPACE	12		
13	ELEV. P-1 MACHINE RM RECEPT.	0.20			1 20	1	20		SPACE	14		
15	ELEV. P-1 PIT & HOISTWAY LTG.		0.40		1 20	1	20		SPACE	16		
17	ELEV. P-1 PIT RECEPT.		0.20		1 20	1	20		SPACE	18		
19	ELEV. P-1 PIT SUMP PUMP	1.20			1 20	1	20		SPACE	20		
21	SPARE				1 20	2 30		1.40	CU-2	22		
23	ELEV. P-1 LOBBY LTG			0.50	1 20	**	**		1.40	**	24	
25	SPACE				1 PS	1 PS			SPACE	26		
27	SPACE				1 PS	1 PS			SPACE	28		
29	SPACE				1 PS	1 PS			SPACE	30		
31	SPACE				1 PS	1 PS			SPACE	32		
33	SPACE				1 PS	1 PS			SPACE	34		
35	SPACE				1 PS	1 PS			SPACE	36		
37	SPACE				1 PS	1 PS			SPACE	38		
39	SPACE				1 PS	1 PS			SPACE	40		
41	SPACE				1 PS	1 PS			SPACE	42		
		15.20	14.10	14.80	SUB-TOTALS			1.00	2.40	1.80		
CONNECTED LOAD:												
A: 16.20 KVA = 135.0 A		<div>49.10 TOTAL CONNECTED LOAD (KVA)</div>										
B: 16.50 KVA = 137.5 A												
C: 16.40 KVA = 136.7 A												
NOTE:												
(1) PROVIDE PANELBOARD.												

GENERAL NOTES:

- REFER TO E001 FOR ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES.
- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN HEAVY DASHED (---) SHALL BE REMOVED, ELECTRICAL ITEMS SHOWN HEAVY SOLID (———) SHALL BE NEW AND ELECTRICAL ITEMS SHOWN LIGHT SOLID (———) SHALL BE EXISTING TO REMAIN.

DRAWING NOTES:

- REUSE EXISTING 125A, 3 POLE SPARE CIRCUIT BREAKER TO FEED NEW PANEL NP1.
- PROVIDE (4) #1 & (1) #6 GRD IN 2" CONDUIT.
- EXTEND EXISTING CIRCUIT AND CONNECT TO NEW CIRCUIT BREAKER IN PANELBOARD.
- PROVIDE (3) #2 & (1) #8 GRD IN 1-1/4" CONDUIT.
- PROVIDE (3) #4/0 & (1) #4 GRD IN 2 1/2" CONDUIT.
- PROVIDE (2) #12 & (1) #12 GRD IN 3/4" CONDUIT.
- CONNECT PANEL 'NP1' FEEDER TO SPARE 3P-125A CB IN MDP9.
- PROVIDE 3P-150A CB IN EXISTING SPACE WITHIN MAIN SWITCHBOARD. MATCH AIC OF EXISTING CIRCUIT BREAKERS. EXISTING SWITCHBOARD IS CUTLER-HAMMER POW-R-LINE C.
- PROVIDE 2 #12 + 1 #12 GRD IN 3/4" C.
- RECONNECT TO EXISTING FEEDER.
- PROVIDE NEW JUNCTION BOX. INTERCEPT/EXTEND CIRCUIT. SEE DRAWING E201 FOR LOCATION.
- PROVIDE NEW JUNCTION BOX. INTERCEPT/ EXTEND CIRCUIT.
- PROVIDE 3 #10 + 1 #10 GRD IN 3/4" CONDUIT.
- SEE DRAWING NOTE 11 ON DRAWING E103.
- PROVIDE 3P-250A ENCLOSED CIRCUIT BREAKER WITH ADJUSTABLE L, S, I IN A NEMA 1 ENCLOSURE. MOUNT ON WALL CLOSE TO EXISTING ATS. LOCATION MUST COMPLY WITH NEC TAP RULE. PROVIDE ENGRAVED LABEL: "CB FEEDS PANEL EP1 (ROOM B01D)". SET L, S, I PER THE APPROVED POWER SYSTEM STUDY REQUIRED PER SPEC SECTION 26 05 71.
- PROVIDE 4-250 KCMIL + 1 #4 GRD IN 2 1/2" CONDUIT. REUSE EXISTING CONDUIT TO THE EXTENT POSSIBLE.
- PROVIDE 3 #1/0 + 1 #6 GRD IN 2" CONDUIT.
- PROVIDE AS A SUB-FEED BREAKER IF NEEDED.



ONE LINE DIAGRAM - ELECTRICAL - NEW WORK
SCALE: NTS

Revisions		Date	Consultants		BURDETTE KOEHLER MURPHY & ASSOCIATES, INC.		Seal		DERBY enterprises		Drawing Title		Project Title		Date		Job No.		Drawing No.		Dwg. - Of xx	
			RICKERT ENGINEERING, INC.		MECHANICAL / ELECTRICAL / FIRE PROTECTION / TELECOMMUNICATIONS						PANELBOARD SCHEDULES AND ELECTRICAL ONE LINE DIAGRAM - NEW WORK		REPLACE BUILDING 9 ELEVATORS		26, September 2014		120701D		E401			
			ROBERT L. SEYMOUR ASSOCIATES		BUILDING COST CONSULTANTS, INC.						Approved: Chief Engineering Services		Building Number 9		Checked RAM		Drawn QA					
			AUTOMATIC TRANSPORT ENGINEERING		COST ESTIMATING						Approved: Medical Center Director		Location COATESVILLE, PENNSYLVANIA									