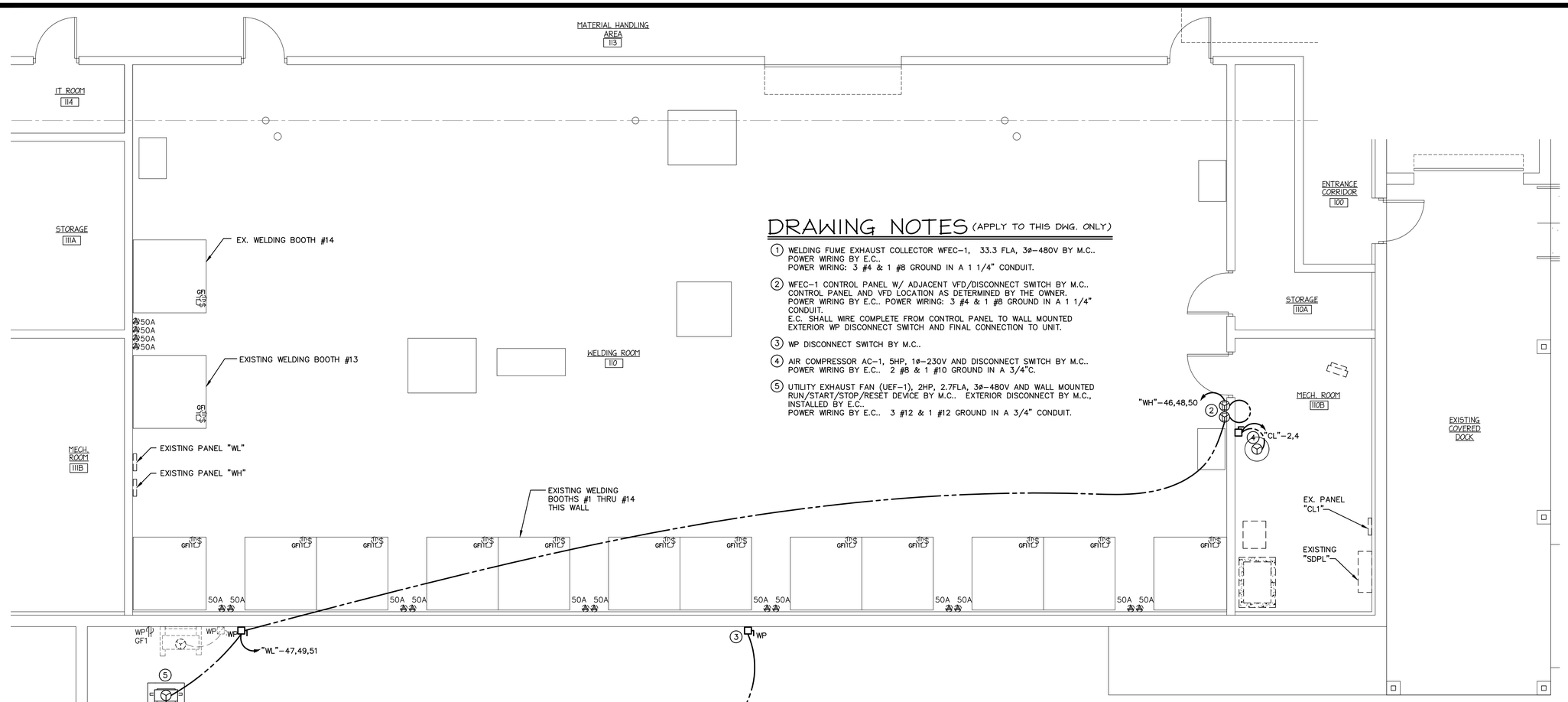
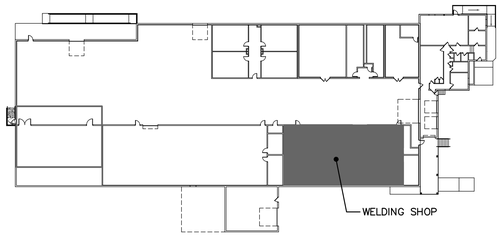


PARTIAL FLOOR PLAN - WELDING SHOP - ELECTRICAL

SCALE: 1/4"= 1'-0"

ELECTRIC PANEL SCHEDULE NOTES:
1. LIGHT TEXT INDICATES EXISTING LOADS TO REMAIN, DARK TEXT INDICATES NEW.
2. LIMITED FIELD SURVEYS WERE CONDUCTED OF THESE PANELS – E.C. TO FIELD VERIFY. PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED AND PROVIDE NEW LABELS/PANEL SCHEDULE ACCORDINGLY.
3. ALL NEW CIRCUIT BREAKERS TO MATCH EXISTING MANUFACTURER.
4. ALL NEW CIRCUIT BREAKERS TO MATCH OR EXCEED EXISTING AIC RATINGS.



KEY PLAN
NOT TO SCALE

PANEL 'CL' 22kAIC
3ø-4W-120/208V. 200A M.C.B.

LOAD	BKR	#	#	BKR	LOAD
		200			
		3			
300	20/1	1	2	40	3134
300	20/1	3	4	2	3134
2500	35	5	6	---	---
2500	2	7	8	40	---
384	20/1	9	10		---
285	20/1	11	12	3	---
1000	20/1	13	14	40	---
1000	20/1	15	16		---
1000	20/1	17	18	3	---
1000	20/1	19	20	---	---
2200	30	21	22	---	---
2200	2	23	24	---	---
---	20/1	25	26	---	---
---	---	27	28	---	---
---	---	29	30	---	---
---	---	31	32	---	---
---	---	33	34	---	---
---	---	35	36	---	---
---	---	37	38	100	---
---	---	39	40		---
---	---	41	42	3	---
		KVA			AMPS
PHASE A		7.9			66
PHASE B		7.0			58
PHASE C		6.0			50

EX. OUTSIDE BLDG LIGHTING-REAR
EX. OUTSIDE BUILDING LTG-FRONT
EX. ELEC. PROP HEATER
EX. CEILING EXHAUST FAN
EX. LIGHTING - 110A, 110B
EX. TRUCK BLOCK HEATER
EX. EQUIPMENT
EX. AIR COMPRESSOR
SPARE
SPACE

AIR COMPRESSOR AC-1
SPACE
SPARE
SPARE
SPACE
EX. PANEL 'CL2'

EX. BOOTH #1 WELDING RECEPT.
EX. BOOTH #2 WELDING RECEPT.
EX. BOOTH #3 WELDING RECEPT.
EX. BOOTH #4 WELDING RECEPT.
EX. BOOTH #5 WELDING RECEPT.
EX. BOOTH #6 WELDING RECEPT.
EX. WELDING RECEPTACLE
EX. CNC PLASMA
EX. WELDING RECEPTACLE
EXISTING AIR COMPRESSOR
SPARE
UTILITY EXHAUST FAN UEF-1
SPACE

EX. PANEL 'WH' 35kAIC
3ø-4W-277/480V. 600A M.L.O.

LOAD	BKR	#	#	BKR	LOAD
10580	50	1	2	50	10580
10580	2	3	4	2	10580
10580	50	5	6	50	10580
10580	2	7	8	2	10580
10580	50	9	10	50	10580
10580	2	11	12	2	10580
10580	50	13	14	50	10580
10580	2	15	16	2	10580
10580	50	17	18	50	10580
10580	2	19	20	2	10580
10580	50	21	22	50	10580
10580	2	23	24	2	10580
10580	50	25	26	50	10580
10580	2	27	28	2	10580
10580	50	29	30	50	10580
10580	2	31	32	2	10580
10580	50	33	34	35	1459
10580	2	35	36		1459
9695	35	37	38	3	1459
9695		39	40	15	4155
9695	3	41	42		4155
---	20/1	43	44	3	4155
---	20/1	45	46	70	9197
935	15	47	48		9197
935		49	50	3	9197
935	3	51	52	---	---
---	---	53	54	---	---
---	---	55	56	---	---
---	---	57	58	---	---
---	---	59	60	---	---
		KVA			AMPS
PHASE A		152.4			550
PHASE B		141.8			512
PHASE C		141.8			512

EX. BOOTH #7 WELDING RECEPT.
EX. BOOTH #8 WELDING RECEPT.
EX. BOOTH #9 WELDING RECEPT.
EX. BOOTH #10 WELDING RECEPT.
EX. BOOTH #11 WELDING RECEPT.
EX. BOOTH #12 WELDING RECEPT.
EX. BOOTH #13 WELDING RECEPT.
EX. BOOTH #14 WELDING RECEPT.
EX. SCOTCHMAN IRON WORKER
EXISTING EQUIPMENT
WELDING FUME EXHAUST COLLECTOR WFEC-1
SPACE

PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 50053, EXPIRATION DATE: 10-13-2026
BRETT NICHOLAS YONISH DATE 02-04-2025

STATE OF MARYLAND · BRETT N. YONISH · 50053 · PROFESSIONAL ENGINEER

PARTIAL FLOOR PLAN - WELDING - ELECTRICAL

WELD FUME EXTRACTION
WELDING ROOM
FOR
ALLEGANY COLLEGE, LAVALLE BUILDING
37 LANE AVENUE, LAVALLE, MARYLAND 21502

East Hills Engineering Associates
A LIMITED LIABILITY COMPANY
BRETT N. YONISH, P.E.
CHRISTOPHER G. ALBRIGHT, P.E.
541 MAIN STREET
WINDBER, PA 15963
(814) 467-6877

REVISIONS		
MARK	BY	DATE

DATE: 02/04/2025
DRAWN BY: J.L.L.
CHECKED BY: B.N.Y.
PROJECT NO. EHEA 24141
DRAWING NO. E-3

February 04, 2025 - 11:20am T:\Projects\2024\24-141 - ACM Makers Space Dust Collection and Weld Fume Extraction Systems\WELDING SHOP\Drawings\24-141 - E3.dwg

ORIGINAL DRAWING SIZE = 24"x36"

NOTE: DO NOT SCALE DRAWING - EACH CONTRACTOR IS TO VERIFY ALL EXISTING CONDITIONS AND ALL DIMENSIONS BEFORE BEGINNING ANY WORK. EACH CONTRACTOR IS TO FULLY COORDINATE THEIR WORK WITH THAT OF OTHERS. REFER TO THE CONTRACT AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.