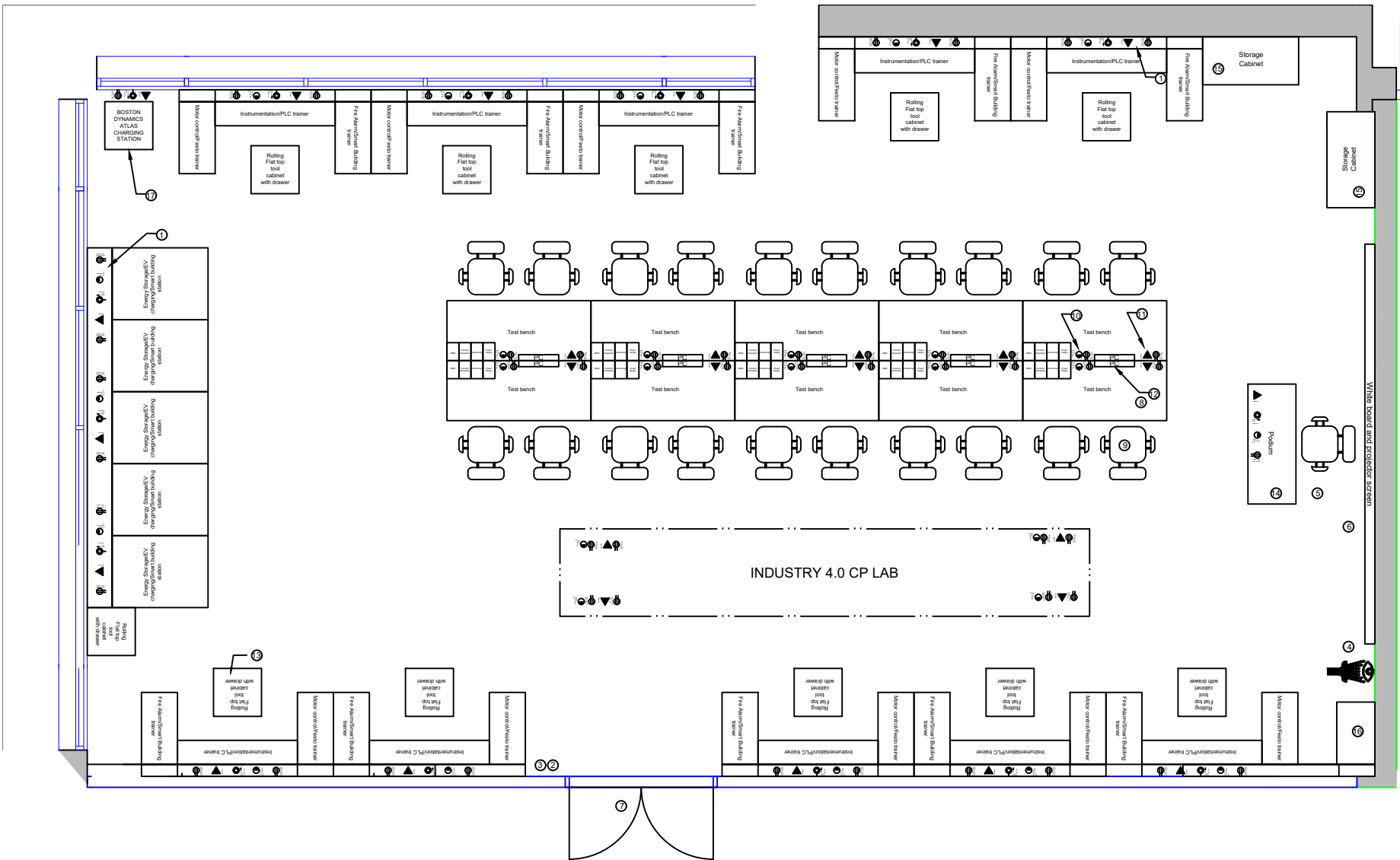


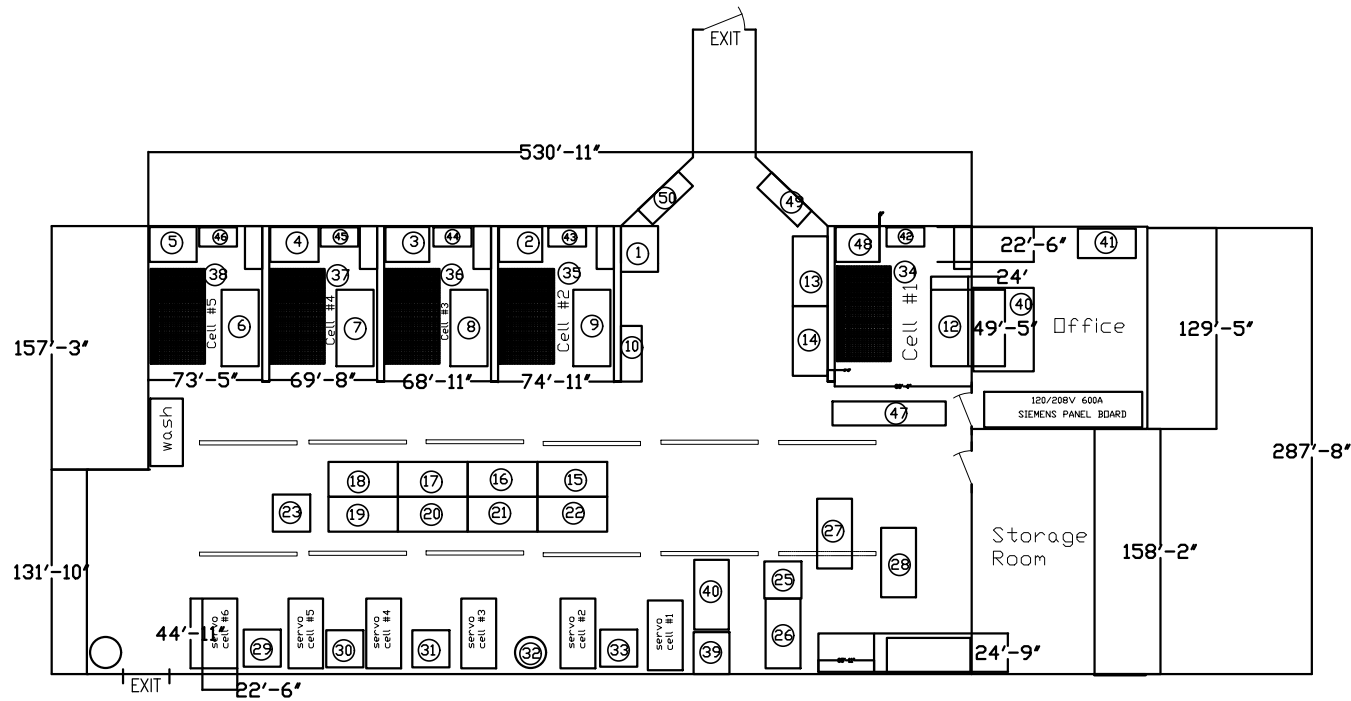
B116 Lab renovation Bill of Materials

S/N	Description	Qty	comments
1	service at each stations along wal	13	include 2 duplex 120V 15/20A receptacles, 1 twist lock 208/120V 3 phase 20A (L21-20R) receptacles, data drop, 100 psi compressed air
2	Emergency stop	1	shunt trip
3	First aid kit	1	regular
4	Eyewash station	1	
5	teaching podium	1	
6	Smart screen/white board	1	
7	Double door	1	6' frame to frame
8	test bench	10	2' x 5' with casters
9	rolling chair	21	
10	services	10	duplex 120V 15/20A and compressed air
11	services	10	Duplex 120V 15/20A and data drop
12	pc	11	10 for test benches, and 1 on teaching podium
13	rolling flat top tool cabinet	12	
14	Services at podium	1	duplex 120V 15/20A receptacle, data drop, and compressed air
15	storage cabinet	2	4' x 2' heavy duty
16	water sink	1	2 patition water sink
17	Boston Dynamics Atlas charging station	1	



E1-12 Renovation Requirement Descriptions					
#	Qty	Item	Description	Location	Desire Level
1	2	Industrial shelving	3 layers Storage shelves 3' depth x 8' height, Height adjustable	located at two side against the wall as indicated on drawing	2 Highly needed subject to feasibility
2	11	Electrical receptacle wall outlet	11x 208/240 Vac x 30 amps twist lock outlet/receptacle wall mounted	3 feet above floor, wall-mounted as the location on drawing	1 Must
3	11	Electrical receptacle wall outlet	11x 120 Vac x 15 amps outlet/receptacle wall mounted	3 feet above floor, wall-mounted as the location on drawing	1 must
4	1	AV (projector and projector screen	Projector and Projector Screen drop down from ceiling	Control at teaching desk	1 Must
5	1	IT PC/Laptop	PC/Laptop for teaching station	on teaching desk	1 Must
6	11	Electrical extension cord	11x 120Vac power supply (reciplicating) drop from ceiling	Drop from ceiling, 7 feet above floor as the location on drawing	1 Must
7	2	Exhaus Hood (4' x 5') x Ø8" rigid pipe	2x sheet metal ventilation hood (4' x 5') x Ø8" rigid pipe for the product of combustion venting through exterior wall. 600 cfm each (total 1200 cfm)	Hanged from ceiling, 7 feet above floor as the location on drawing	1 Must
8	1	Furnishing	Desk + Chair for teaching station		1 Must
9	10	Ceiling Anchors	10x install ceiling anchors sufficient to bear weight for harnessing/working at heights training	Mounted on ceiling, as location on drawing	3 Desirable
10	10	Furnishing (Cabinet work Bench)	10x rolling workbench with storage (mobile composite H-6997 (60" x 30"))		1 Must
11	20	Furnishing (Round stool)	20x (2' height) stool seats		1 Must
12	1	First Aid Kit		Wall-mounted on the left side of the entrance, 5' above floor beside the door	1 must
13	2	Fire extinguisher		Wall-mounted on the left side of the entrance, 5' above floor beside the door	2 must
14	2	Emergency Stop Switch	Emergency power Shutoff switch	Wall-mounted on the left side of the entrance, 5' above floor beside the door (above the fire extinguisher)	2 Must
15	1	Plumbing	Sink	on the right side of the entrance (door)	2 Highly needed subject to feasibility
16	1	plumbing	Eyewash station	on the right side of the entrance (door)	2 Highly needed subject to feasibility
17	1	Plumbing	Floor drain for ice maker station	on the right side of the entrance (door) under the ice maker space	2 Highly needed subject to feasibility
18	2	Compressed air outlet shutoff valve	1/2 inch. Quick disconnect	On the wall 5 ft above floor	2 Desirable
19		IT (Wifi Upgrade)	Improved wifi capabilities to support laptop use in the lab	anywhere in the room on ceiling	1 Must
20		Ceiling	Removal of Drop Ceiling		1 Must
21		Flooring	Epoxy lab flooring		1 Must
22	1	Door/Wall	Add double door (no center bar) and reposition doorway as indicated in drawing	as indicated on drawing	1 Must
Total electrical power supply to the lab: 200 amps					

HYDRAULIC LAB ROOM # E1-15



ITEM No.		QTY	Part List	DESCRIPTION
1	1		Wooden Tables	
10	1			
15	1			
16	1			
17	1			
18	1			
19	1			
20	1			
21	1			
22	1			
47	1		PC	
2	1			
3	1			
4	1			
41	1			
5	1		PC stand with orange cabinet	
29	1			
30	1			
31	1			
33	1			
39	1		Floor Safety Mats	
34	1			
35	1			
36	1			
37	1			
38	1		Wainbee Hydraulic Station	
6	1			
7	1			
8	1			
9	1			
12	1		White Board	
32	1		Cabinet	
39	1		Car Station Equipment	
40	1		Flow Measurement Equipment	
26	1		Piston Motor Equipment	
27	1		Closed Loop Drive Equipment	
23	1		Vane Motor Equipment	
28	1		Storage Cabinets	
13	1			
14	1			
49	1		Wooden Storage Cabinets	
50	1			

TITLE: E1-15 Layout (UPDATED)

CENTENNIAL COLLEGE – HYDRAULIC LAB E1-15

DRAWN BY: ADITHYA BIJI

DATE: 30/07/24

SCALE: 1:1

UNITS: INCHES

DWG. No.: 1

SHEET 01 OF 01