Notes:

All ADA Counters/Desks are adjustable, and on casters for easy access to any or all stations.

Room: COS-110

Area 1: Stratosys 3D Printer F270

Machine Requirements:
Computer: One dedicated PC with Windows 10, minimum 8 gb RAM recommended.
Software: GrabCAD Print required.
Electrical: 110/120V/20A (dedicated circuit)
Display resolution: 16 bit color @ 1024x768 or better

Area 2: 4' x 8' Forrest Scientific CNC Router

Machine Requirements:
Computer: One dedicated PC with Windows 7 or 8, minimum 8 gb RAM recommended.
Software: CNC g-code software (MasterCAM etc.)
Display resolution: 16 bit color @ 1024x768 or better
Electrical: 100-132v/15A or 200-240v/7A 50/60 Hz. (dedicated circuit)

Area 3: Universal Laser System VLS6.60

Machine Requirements:
Computer: One dedicated PC with Windows 7/8/10, 32/64 bit, 8 gb RAM recommended.
Software: Laser interface software required offered through Paton group.
Display resolution: 16 bit color @ 1024x768 or better
Electrical: 110V/10A (dedicated circuit)

Area 4: Double Basin Sink / Kitchenette Area (refer to Makerspace Plans - Page P1.1)

Eyewash station: 1 fixture unit, tie vent/cold system to adjacent restroom
Dual basin sink: 4 fixture units, 1.6 gpm, 3/4" piping. Tie in to adjacent restroom
Electrical: Countertop height outlet, ability to have small fridge, coffeemaker etc.

Area 5: Roland MDX-50 Benchtop Mill

Machine Requirements:
Computer: One dedicated PC with Windows 10, 8.1, 7 (32 or 64-bit version), minimum 8 gb RAM recommended.
Software: AutoCAD, PTC Creo Parametric 3D
Display resolution: 16 bit color @ 1024x768 or better
Electrical: 100/240V +- 10% 50/60Hz 1.2A (dedicated circuit)

Area 6: Formech 508DT Desktop Vacuum Forming Machine

Machine Requirements:
Computer: No PC required.
Software: None.
Electrical: Single phase 208/240 13A 3200 watts (dedicated circuit)

Area 7:MakerBOT+ 3D Printing Station with seven 3D Printers

Area Requirements:
Computers:
3 Macs - Requirements: 8GB RAM Minimum, Boot Comp, Windows 7/8/10, 64-bit and Mac OS
3 PCs with Windows 10, 8.1, 7 (32 or 64-bit version), minimum 8 gb RAM recommended

Printers:
4 MakerBot Replicators, 2 Ultimaker 2 Extended+, 1 Formlabs Form 2 SLA 3D
Software: AutoCAD, MODO, Adobe Suite, CREO, FUSION360
Network: 1000 BASE-T recommended. CAT5 or higher ethernet cable.
Electrical: 3 Quad receptacles 120V/20A (existing)

Area 8: Sewing Station - Fabric Heat Press Station

Area Requirements:
Juki DNU-1541 industrial sewing machine
Juki MO-6700 serger
Stahl's MAXX Heat Vinyl Press
Computers: None.
Electrical: (existing)

Area 9: Sign In / Lab Coordinator Station

Computers:
1 Mac - Requirements: 8GB RAM Minimum, Boot Comp, Windows 7/8/10, 64-bit and Mac OS.
1 PC with Windows 10, 8.1, 7 (32 or 64-bit version), minimum 8 gb RAM recommended
Software: AutoCAD, MODO, Adobe Suite, CREO, FUSION360
Network: 1000 BASE-T recommended. CAT5 or higher ethernet cable.
Electrical: (existing)

Area Requirements:
Computers: None.
Electrical: Existing

Area 10: Wood Shop Area

Grizzly Combination Disk/Belt Sander
HITACHI Sliding Compound Miter Saw
Variable Speed Drill Press
Vertical Band Saw
Bench Grinder
Bench Vises
9" bench top band saw

Area Requirements:
Computers: None.
Electrical: 2 @ 120V/20A receptacles

Area 11: Table Saw Area
SawStop 10" Table Saw

Area Requirements:
Computers: None.
Electrical: 1 @ Duplex 120V/20A receptacle

Area B: Harbor Freight Blower Bag Dust collector

Area Requirements:
Computers: None.
Electrical: 1 @ 120V/15A non-dedicated receptacle (existing)

Room: COS-108

Area 12 (Design Space/Electrical Work Area/Solder/Workbench Station):

Computers: None.
Electrical: (See Note 3 on Plans Page E1.1) Raise receptacles to countertop height using empty existing pull boxes

Area 13 (3 Digital Work Stations & Large Format Print Station):

Computers: 3 Macs - Requirements: 8GB RAM Minimum, Boot Comp, Windows 7/8/10, 64-bit and Mac OS.
Printers (2) : Roland TruVIS SG-300 wide format printer/cutter & Roland CAMM-1 GX-24 vinyl cutter
Software: AutoCAD, MODO, Adobe Suite, CREO, FUSION360. Roland VersaWorks Dual System
Network: 1000 BASE-T recommended. CAT5 or higher ethernet cable.
Electrical: AC 100/120V +- 10%, 5.4A 50/60Hz

Area 14 (1 Digital Multimedia station / Small Format Print Station):

Computer: 1 Mac - Requirements: 8GB RAM Minimum, Boot Comp, Windows 7/8/10, 64-bit and Mac OS.
Printers: HP CP5225dn LaserJet Professional Color Laser Printer - Samsung B/W letter-size laser
Software: AutoCAD, MODO, Adobe Suite, CREO, FUSION360
Network: 1000 BASE-T recommended. CAT5 or higher ethernet cable.

Area 15 (COS-108 Teaching station):

Computer: 1 Mac - Requirements: 8GB RAM Minimum, Boot Comp, Windows 7, 64x and Mac OS.
Software: AutoCAD, MODO, Adobe Suite, CREO, FUSION360
Network: 1000 BASE-T recommended. CAT5 or higher ethernet cable.

Area 15 COS-109 (office):
Re-key both locks to use same key
Leave existing furnishings

Area 16 COS-108 Eye wash/ first aid station

Area 17 COS-108: Roland TruVIS SG-300 wide formatg printer/cutter. MAC/BOOTCAMP OS, PC windows 7 64x (minimum) 8gb ram Power cord 1000 BASE-T recommended. CAT5 or higher ethernet cable. Power requirements AC 100/120V +-10%, 5.4A 50/60Hz Software All Adobe ProX Programs under SCC Licences.

Area 18 COS-110 Vertical Saw Model 688125: 120v-20A AC 25-60hertz 6000 RPM

Area 19 COS-110 14" cut off saw

Area 20 COS-110: 21" vertical Compressor, and sand blast cabinet

General Notes

No.	Revision/Issue	Date

Firm Name and Address

Project Name and Address

####
####
####

Project	Sheet
Makerspace	
Date	A1
10/3/2017	
Scale	
1/4"=1'-0"	

36"H desk area (non fixed) current

ADA Adjustable 29"H to 36"H

36"H Countertops (Fixed)

ADA Adjustable 29"H to 36"H

36"H Countertops (Fixed)

ADA Adjustable 29"H to 36"H

SIGN IN / CORD DESK

Makerbot area

36"H Countertops

36"H Table/w locking castors

Stratys 3D Printer

Panel C

36"H Tables /w locking castors

Grinder

36"H (non-fixed) Countertops

ADA Adjustable 29"H to 36"H

Forest Scientific Router

36"H (non-fixed) Countertops

HALLWAY
126

OFFICE
128

OFFICE
129