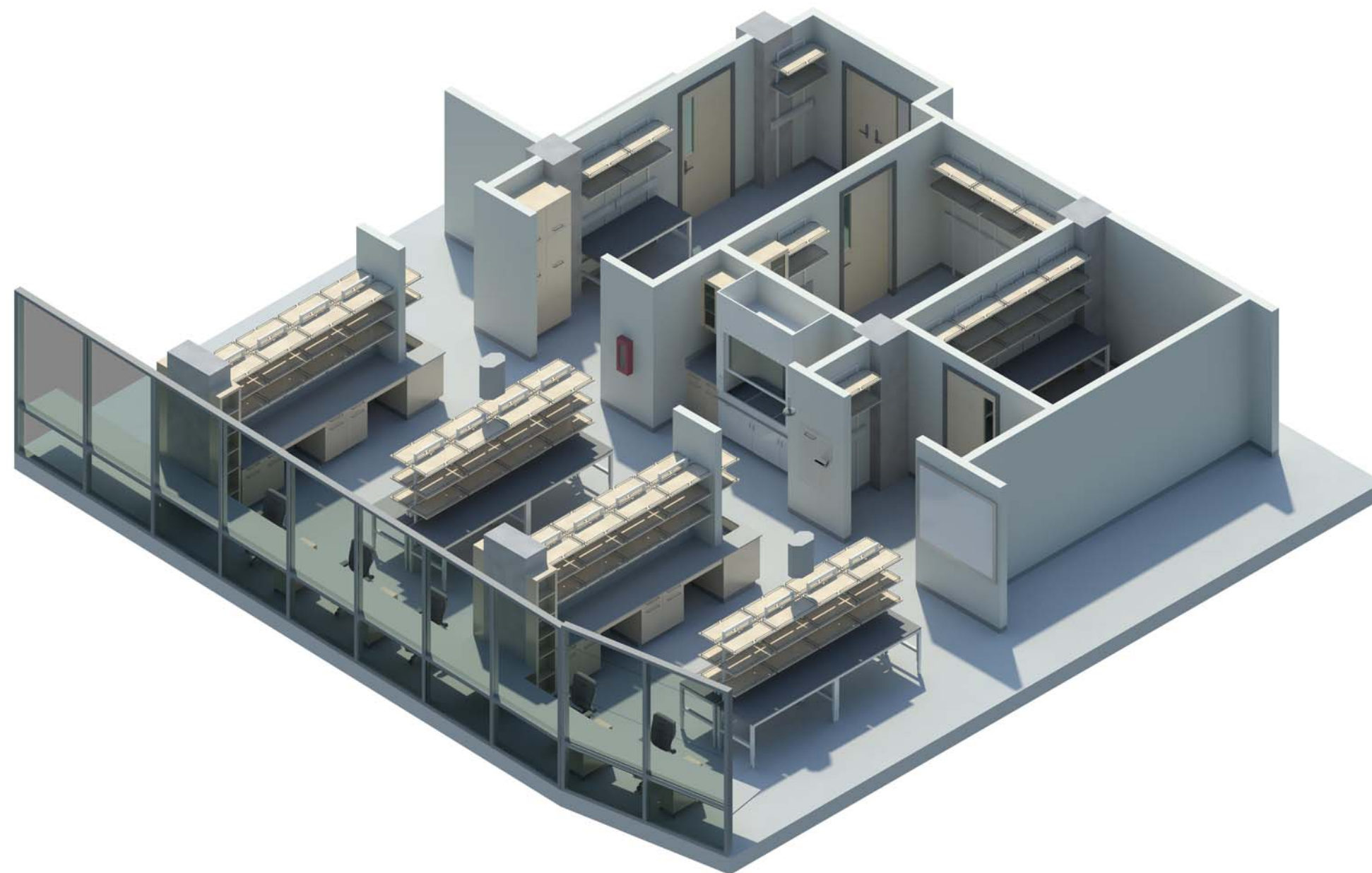


**Lab Sketchbook  
Bioengineering Building  
UC Santa Barbara  
2011 February 22**



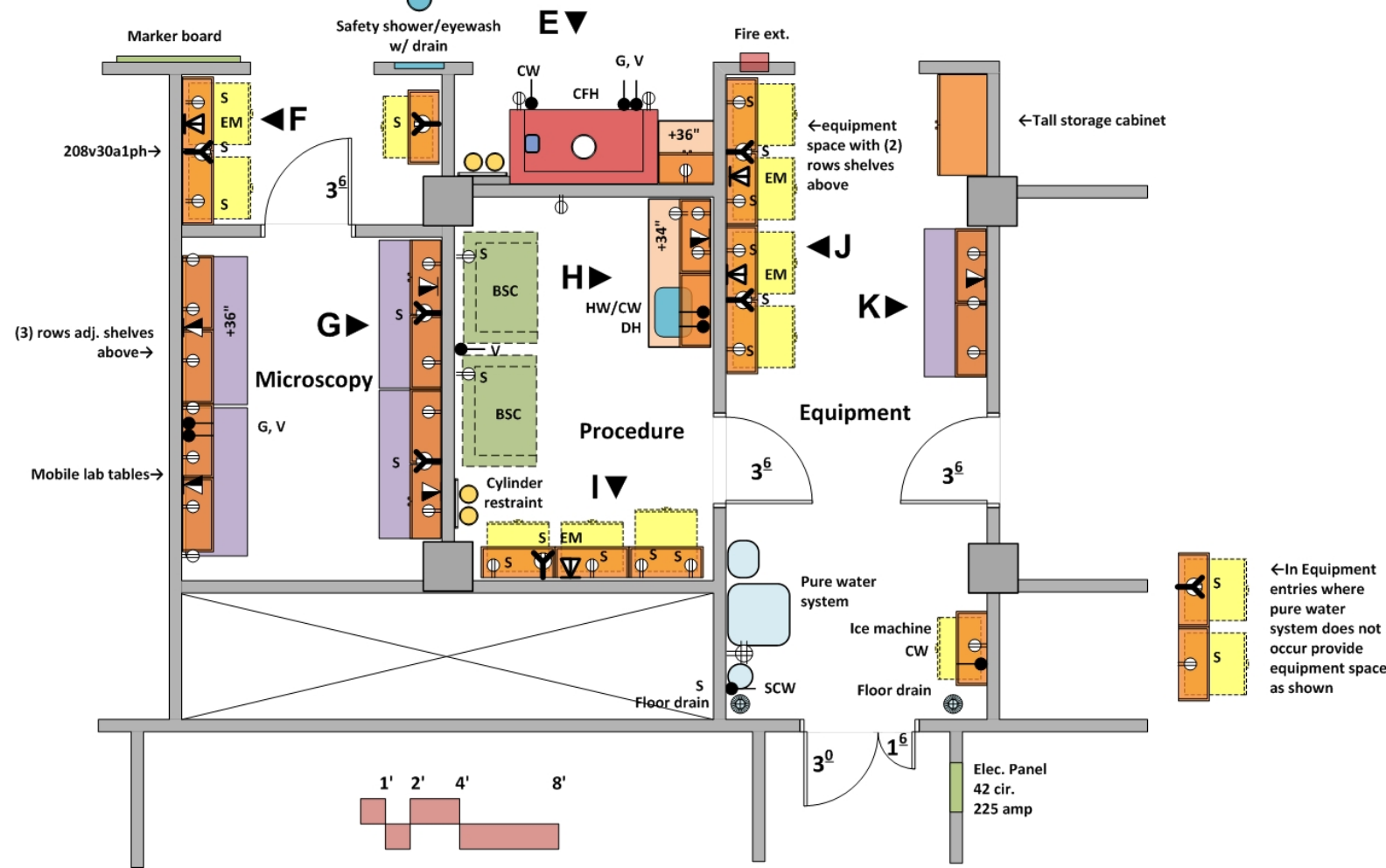
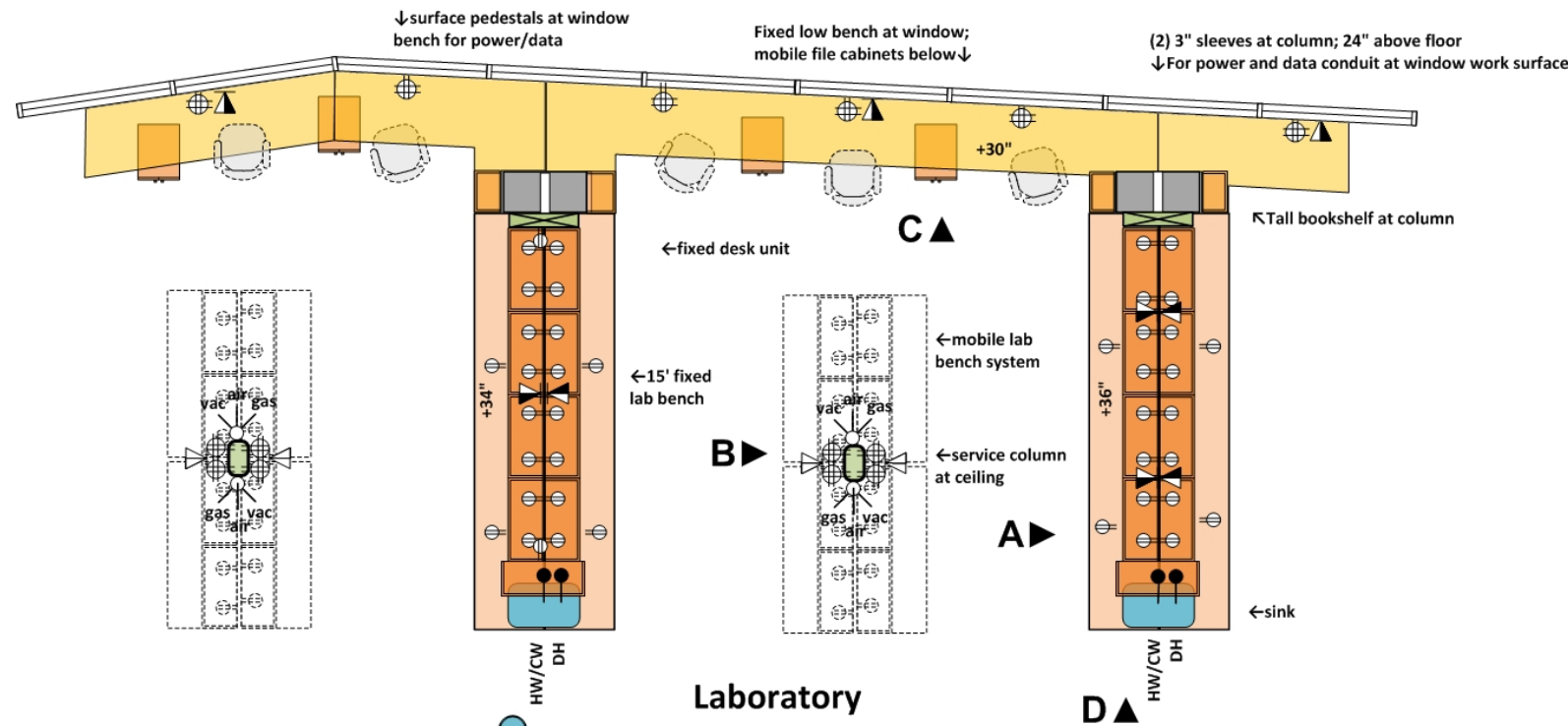
# Contents

Laboratory Level 2 and 3.	.	.	3
Laboratory Level 1	.	.	15
Autoclave	.	.	24
Cold Room	.	.	29
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Incubator Room.	.	.	41



# Laboratory

Including Microscopy, Procedure, and Equipment  
Shown at level 2; Similar for Level 3



## ARCHITECTURAL

- Occupancy: B
- Floor: ground, sealed concrete
- Walls: gypsum board with enamel paint
- Ceiling: 10' acoustic panels in open lab; 9' acoustic tile in lab support rooms and fume hood alcove
- Door: 3<sup>6</sup>x8<sup>0</sup> with view window at lab support rooms; 3<sup>0</sup>x8<sup>0</sup>/1<sup>6</sup>x8<sup>0</sup> pair at equipment entry
- Sound Attenuation: NC 45 or less
- Security: card reader access at main lab entry doors

## STRUCTURAL

- Vibration attenuation: 4,000 microinches per second or less

## MECHANICAL

- Temperature: 68-72 deg. F +/- 2 deg F.
- Humidity: 30-50% relative; 100% exhaust
- Pressure: negative to corridor depending upon use
- Minimum of 6 air changes/hour; unoccupied setback to 4 air changes/hour
- Air change rate may be higher due to equipment heat gain: Main lab- 25 btuh/sf; Microscopy- 50 btuh/sf; Procedure- 50 btuh/sf; Equipment entry- 75 btuh/sf

## ELECTRICAL

- 115v20a duplex outlets; 208v30a1ph (straight blade, 30 amp breaker, 20 amp plug) outlets at equipment spaces
- Standby power at equipment spaces (noted with "s")
- Hardwire and wireless data
- Equipment monitoring (EM) at equipment spaces
- Lighting: direct/indirect pendant fluorescent at 60 f.c. (stepped) in open lab area; direct/indirect recessed in lab support rooms

## PLUMBING

- Industrial hot/cold water (HW/CW) at sinks
- Domestic water (CW) at ice machine;
- Drench hose (DH) at sinks
- Gas, vacuum, and air at mobile lab benches
- Gas, vacuum and industrial cold water at chemical fume hood (CFH)
- Vacuum at Biological Safety Cabinet (BSC)
- Drain at eyewash and safety shower
- Softened Cold water (SCW) at water polisher- locate (1) water polisher per floor at center Equipment Entry

## CONTRACTOR FURNISHED EQUIPMENT

- laboratory casework (bamboo veneer)
- epoxy resin sinks and phenolic resin tops
- chemical fume hood (CFH)- constant volume, 18" sash opening, self closing sash

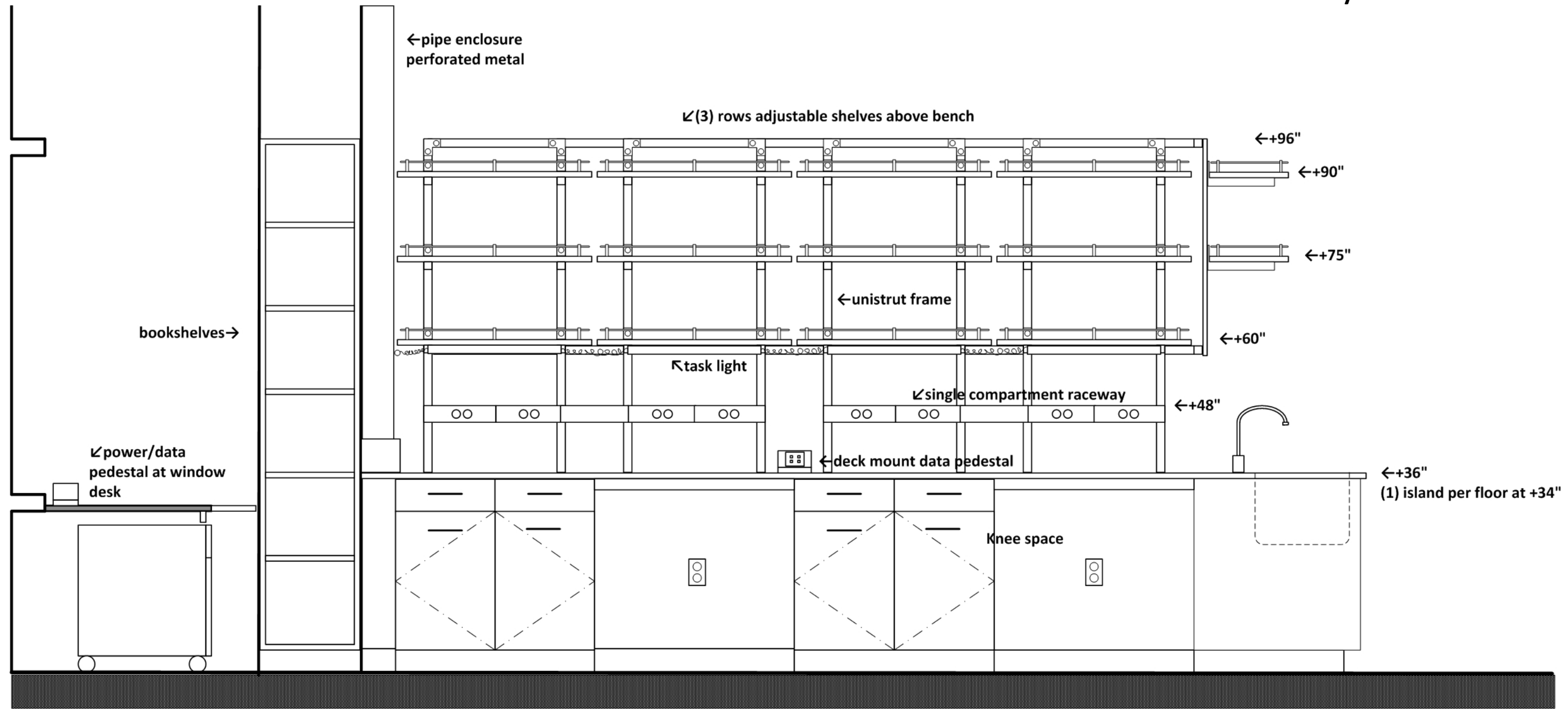
## UCSB FURNISHED EQUIPMENT

- benchtop instruments; scientific equipment
- biological safety cabinets- Class II Type A2 no exhaust

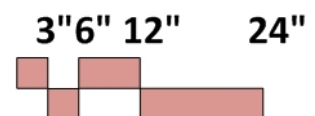


# Elevation A

## Fixed Laboratory Bench

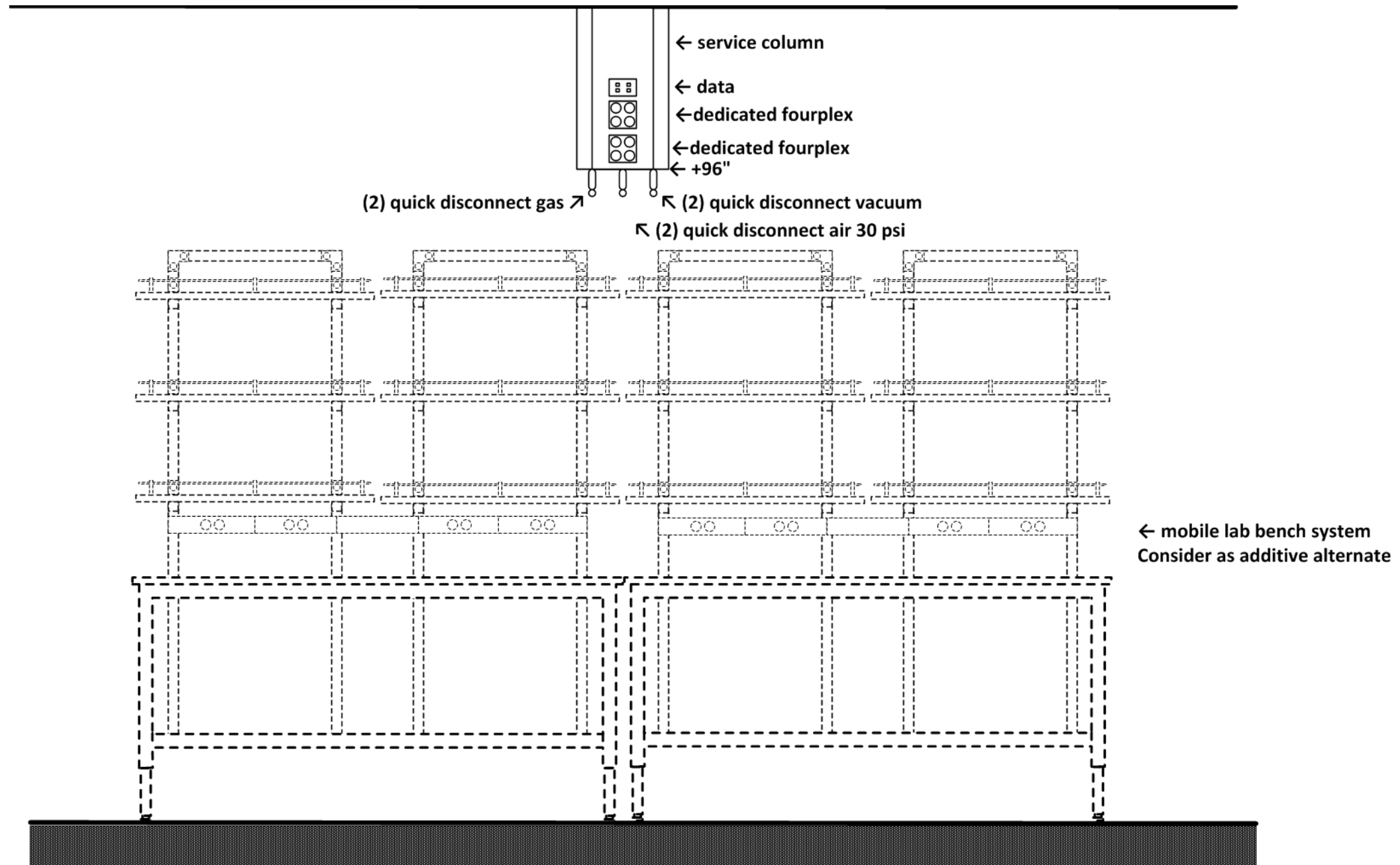


mobile file cabinet ↗



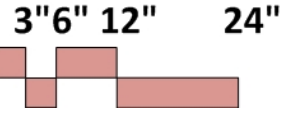
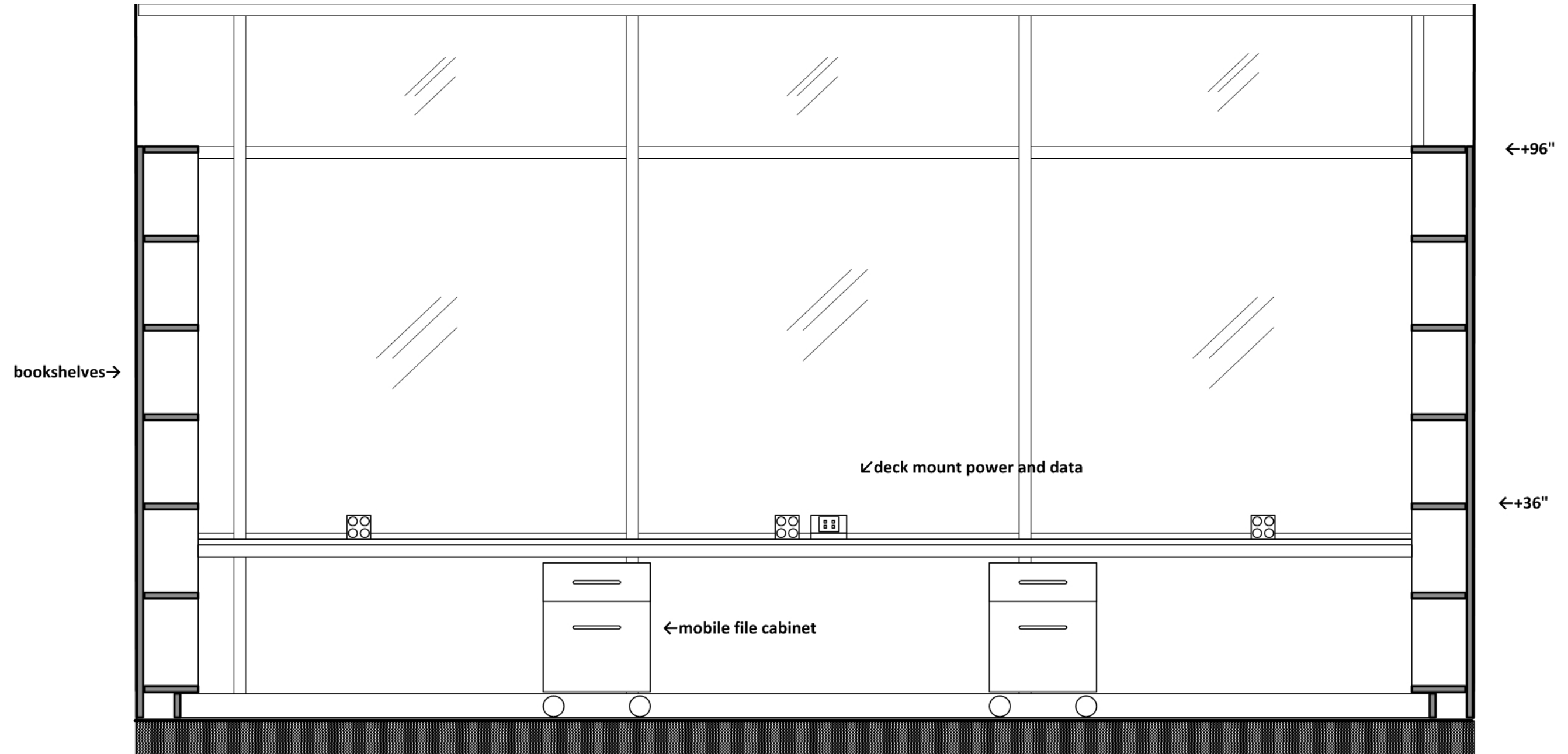
# Elevation B

## Mobile Laboratory Bench



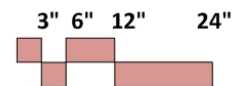
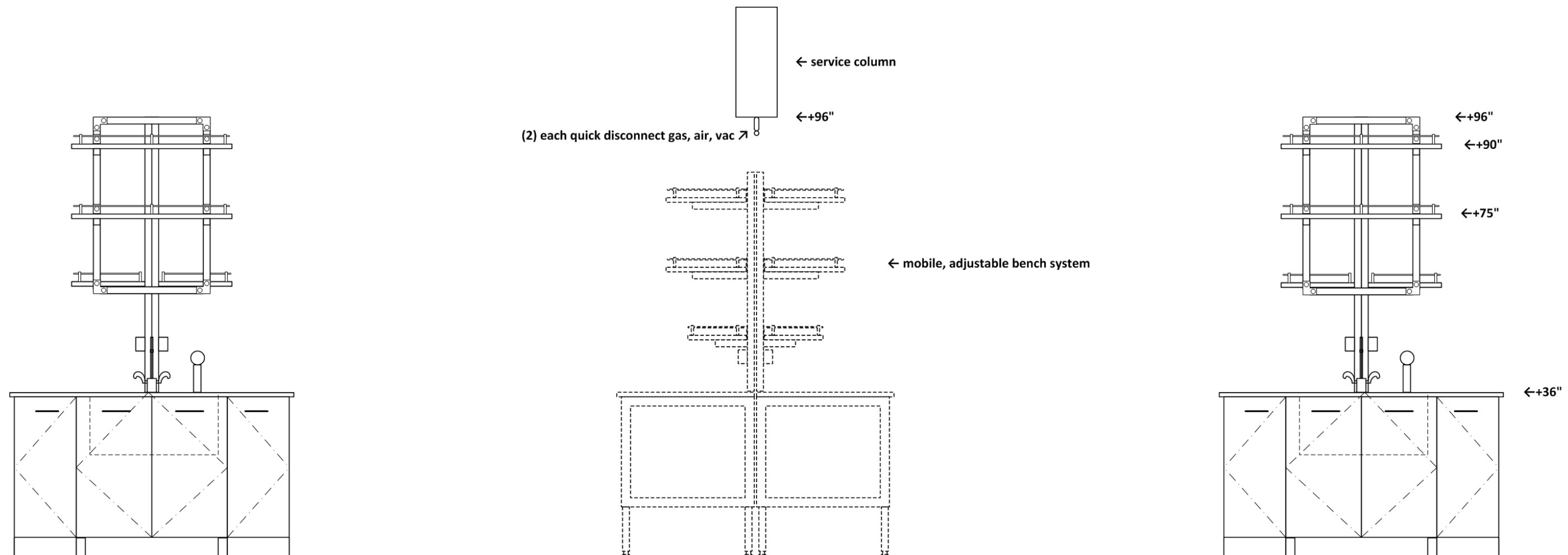
# Elevation C

## Exterior Lab Window

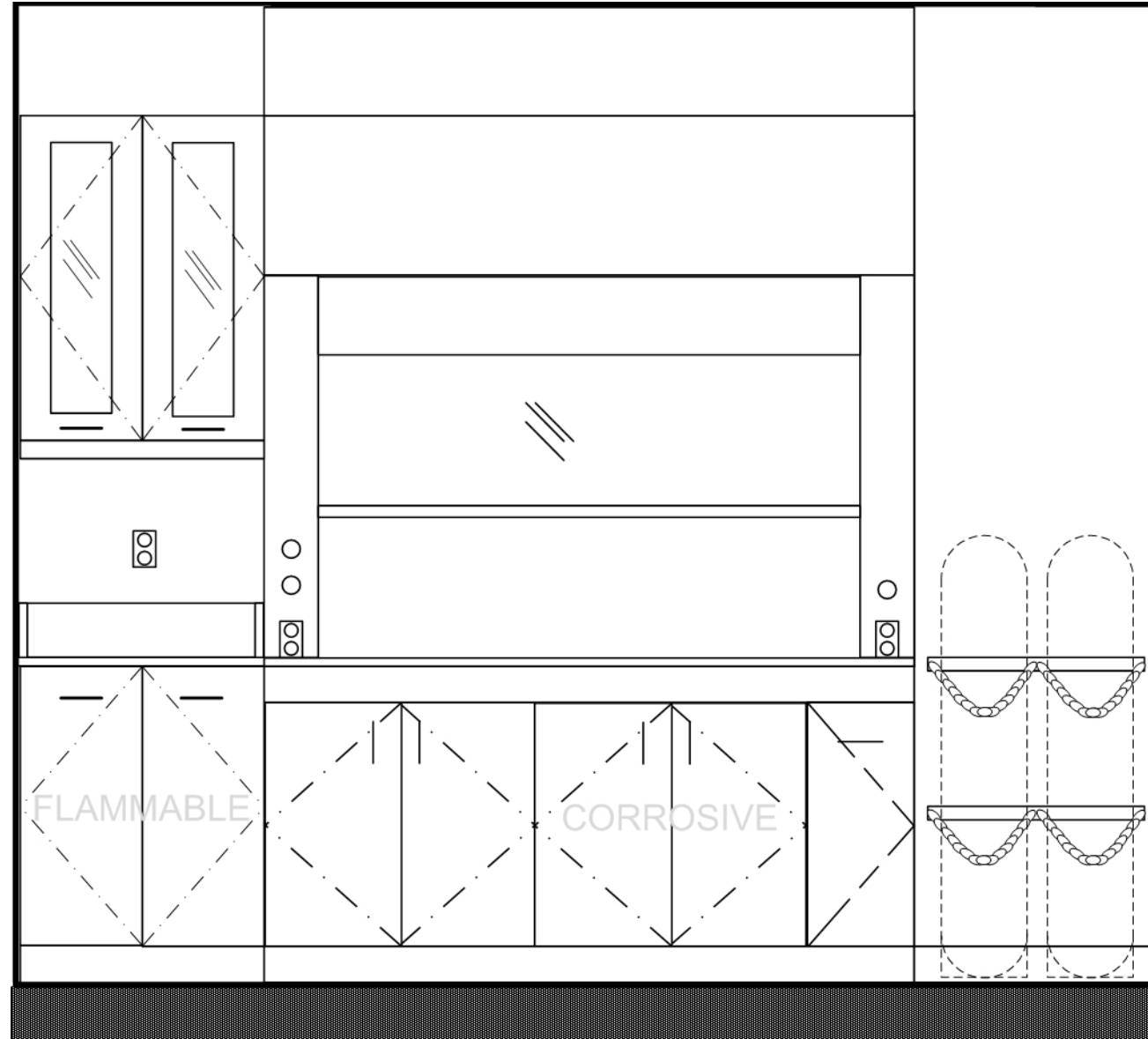


# Elevation D

## End of peninsula benches



**Elevation E**  
**Fume Hood Alcove**

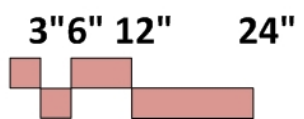
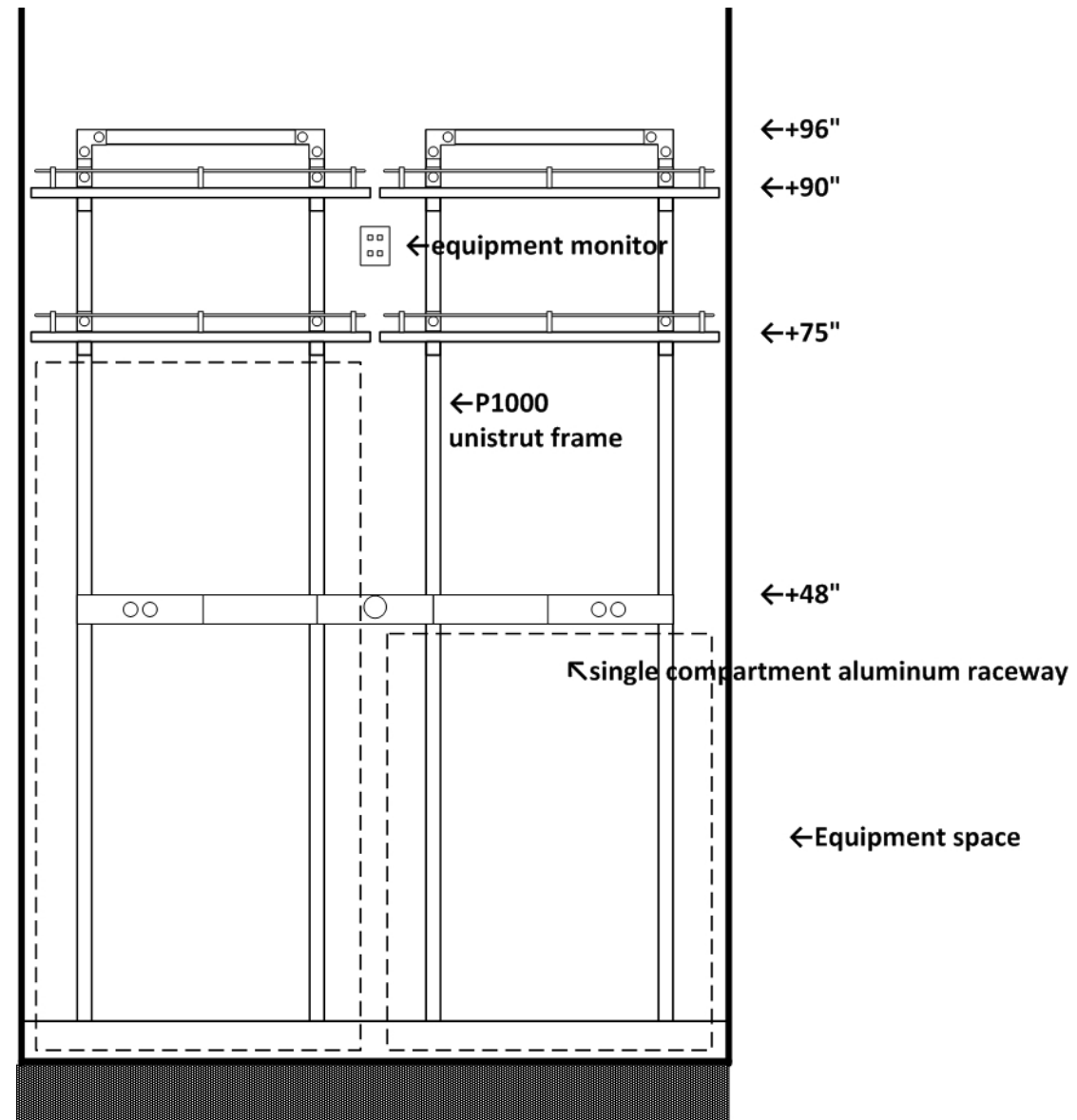


3" 6" 12" 24"



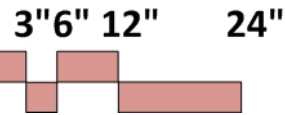
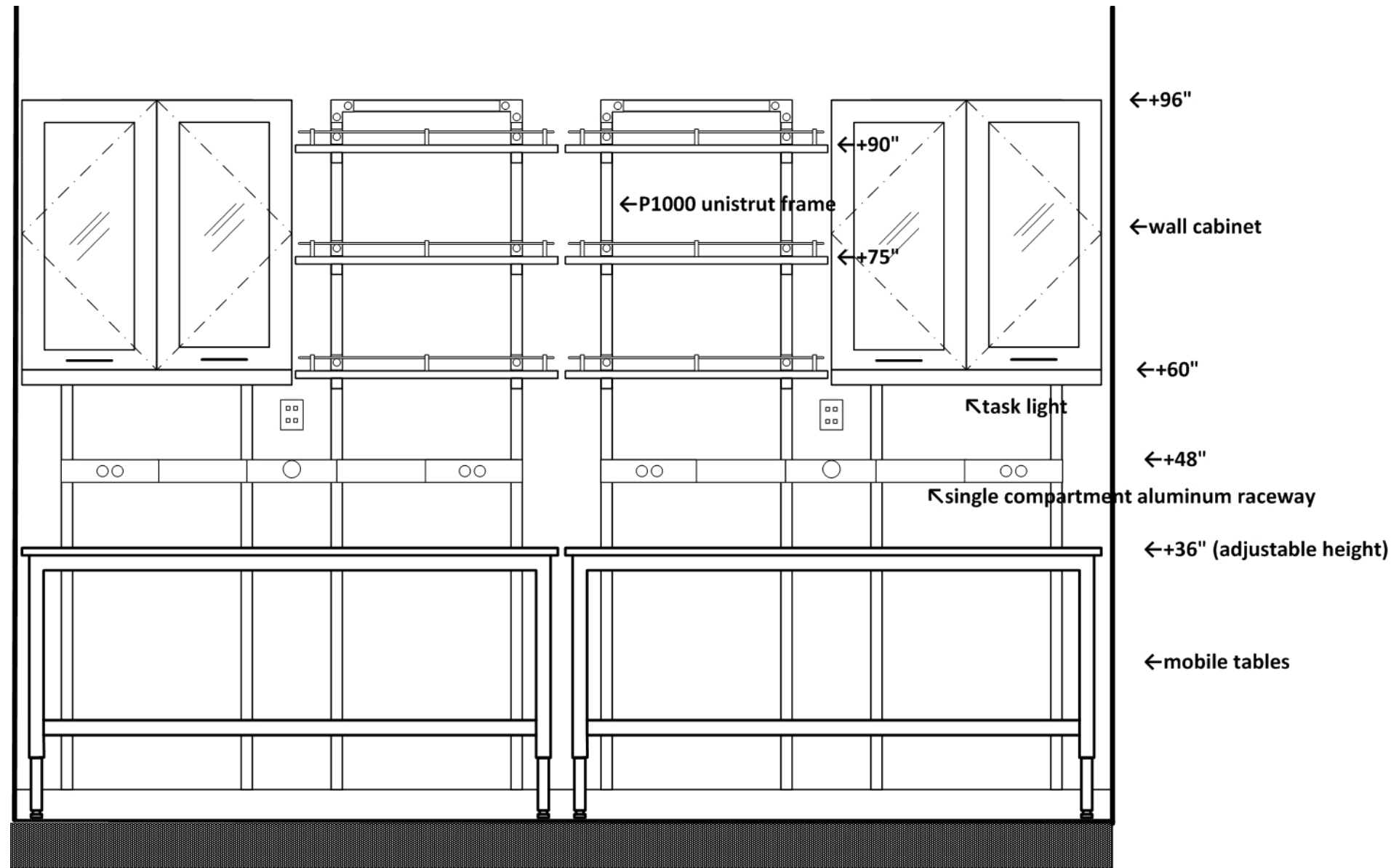
# Elevation F

## Equipment Alcove



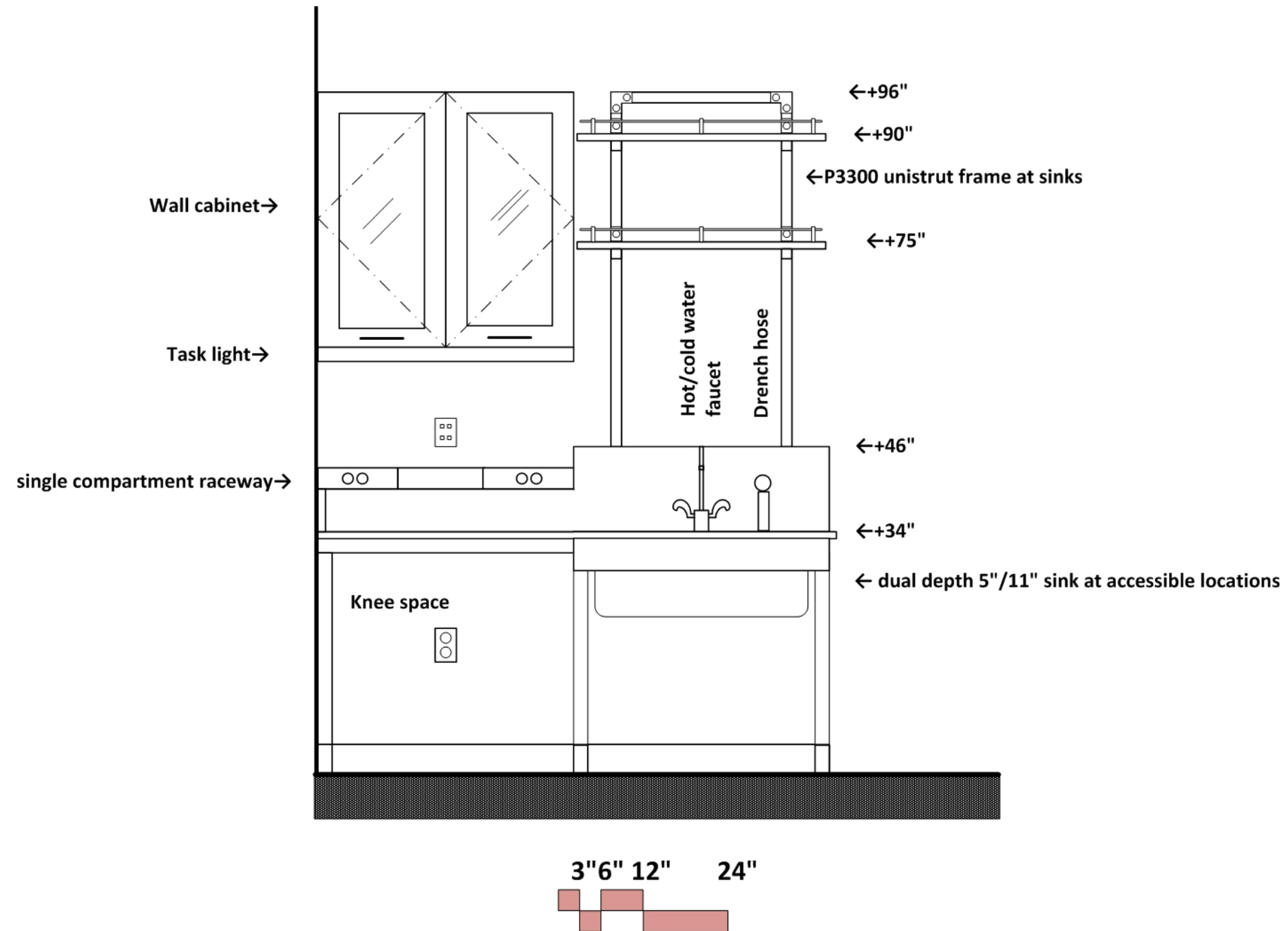
# Elevation G

## Microscopy shelves and tables



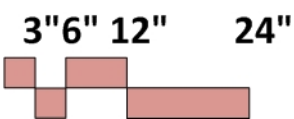
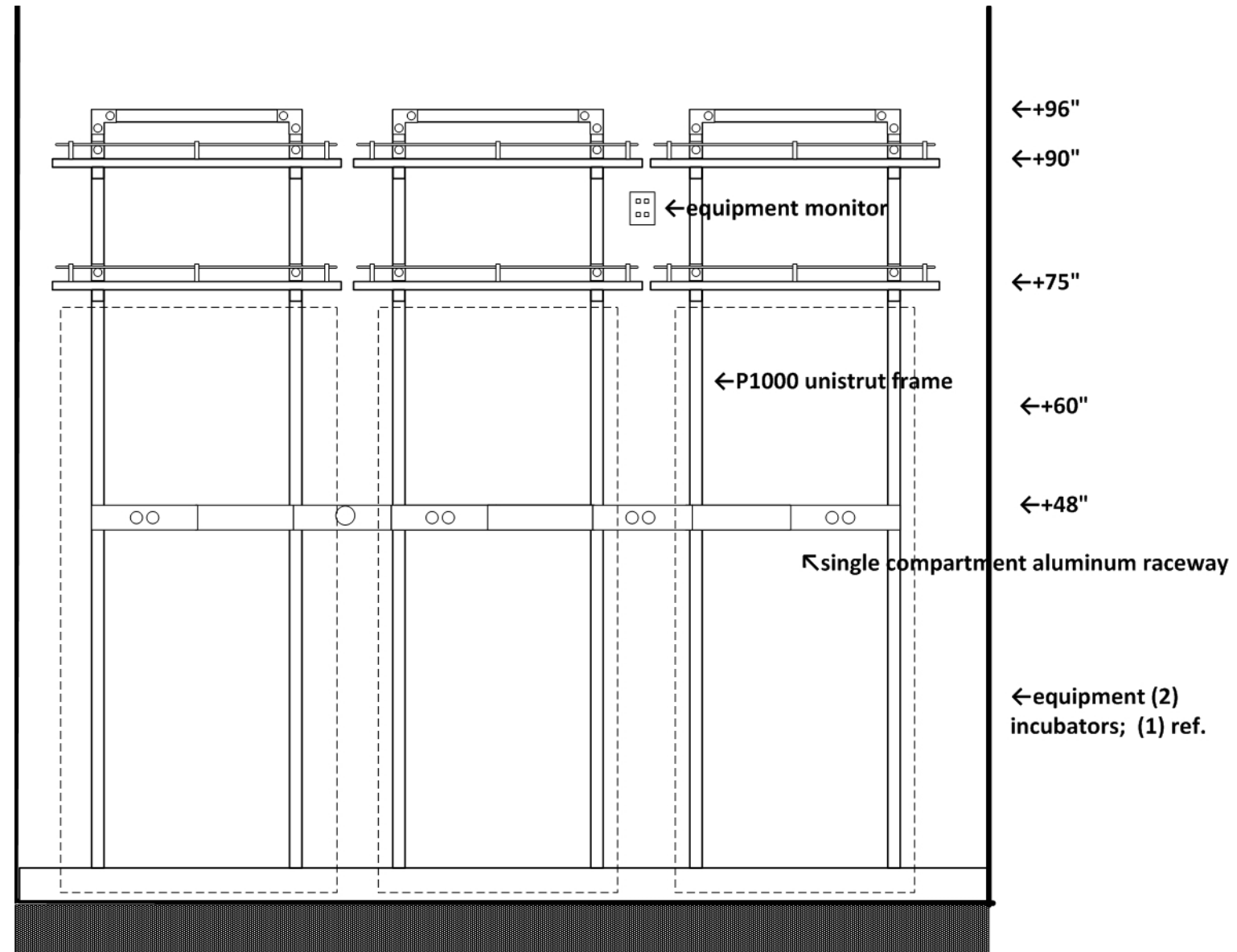
# Elevation H

## Procedure Room bench and sink



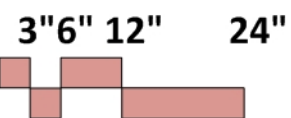
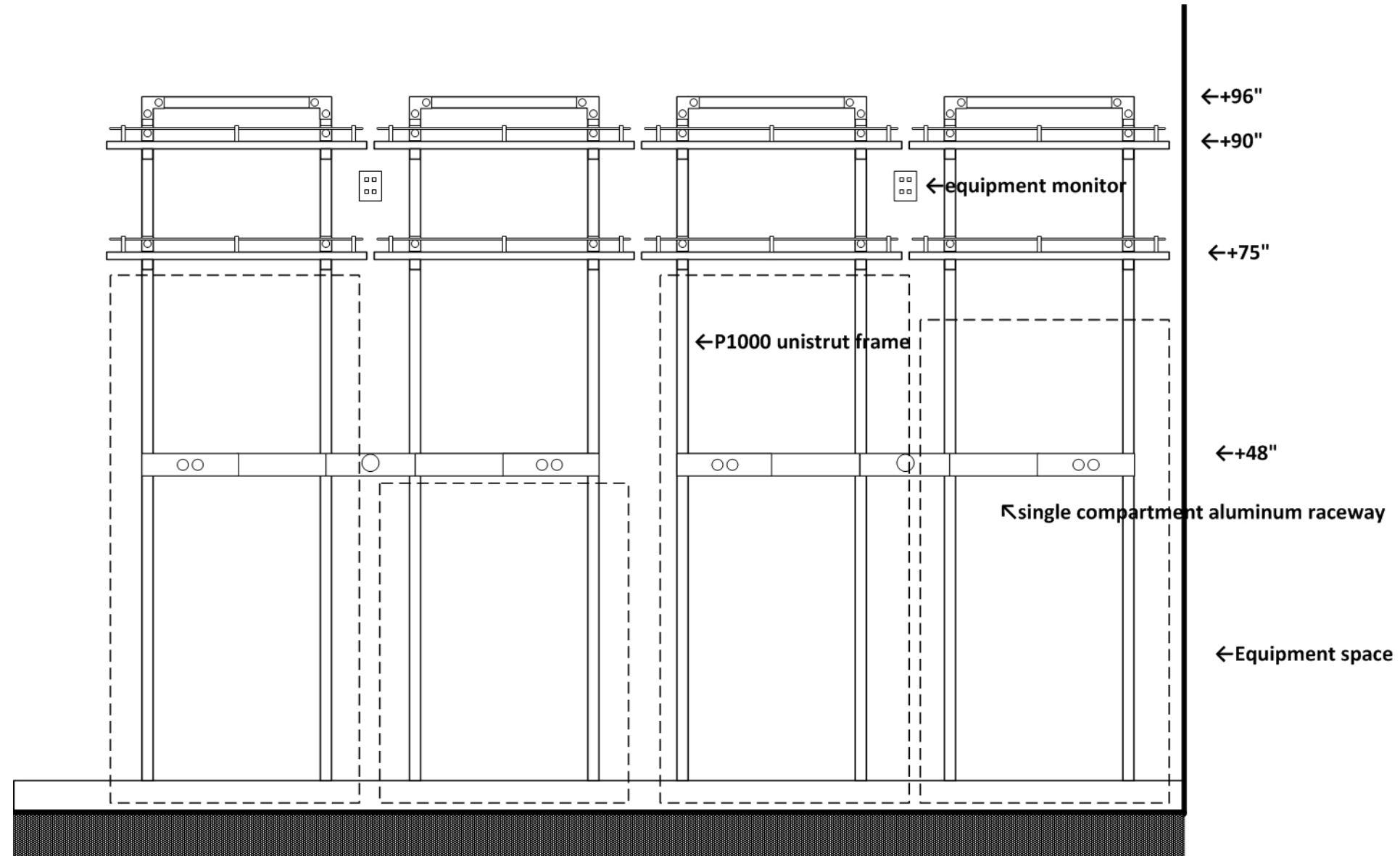
# Elevation I

## Procedure Room bench and sink



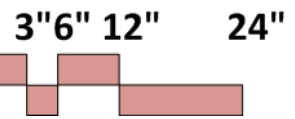
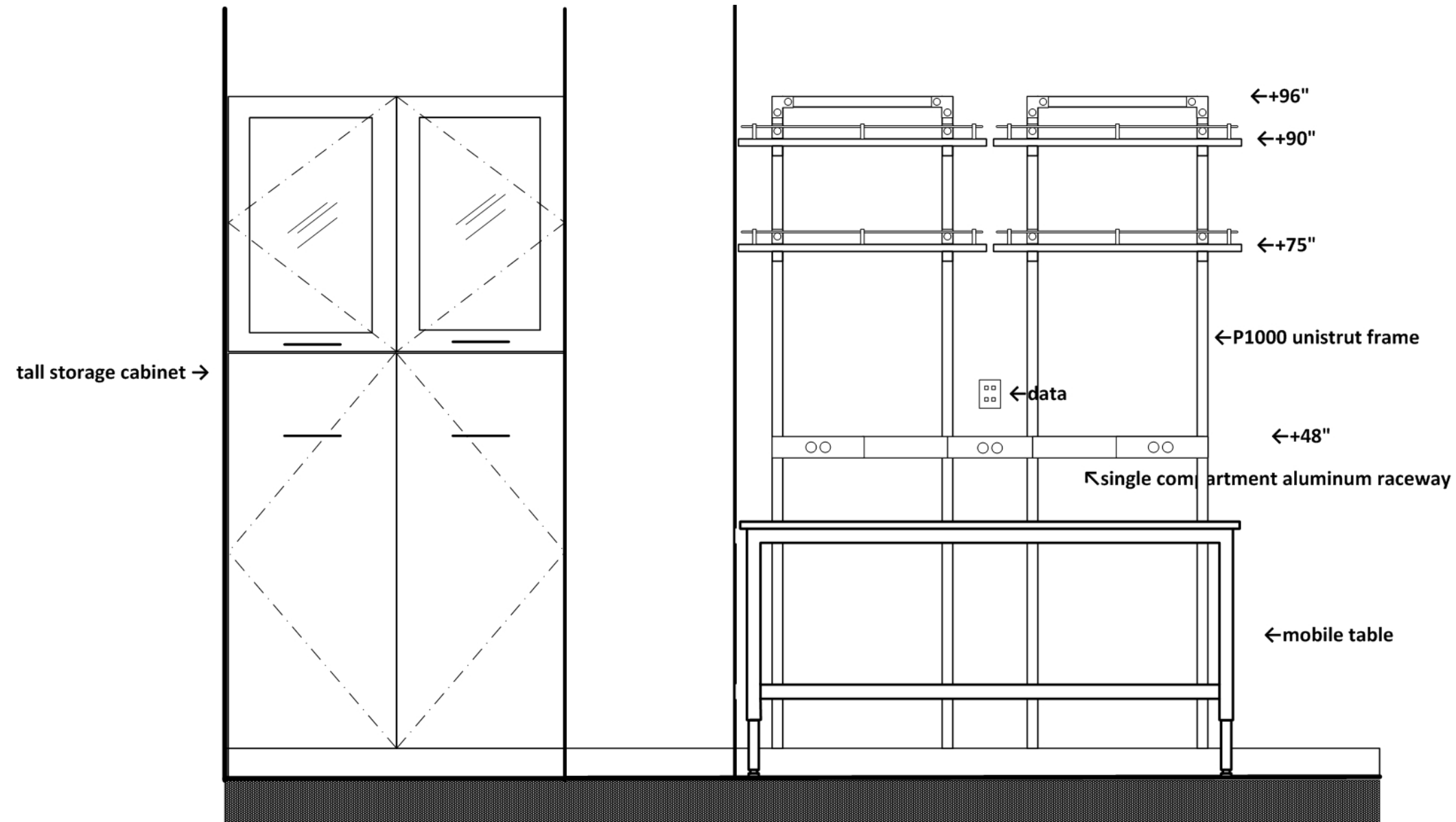
# Elevation J

## Equipment Entry



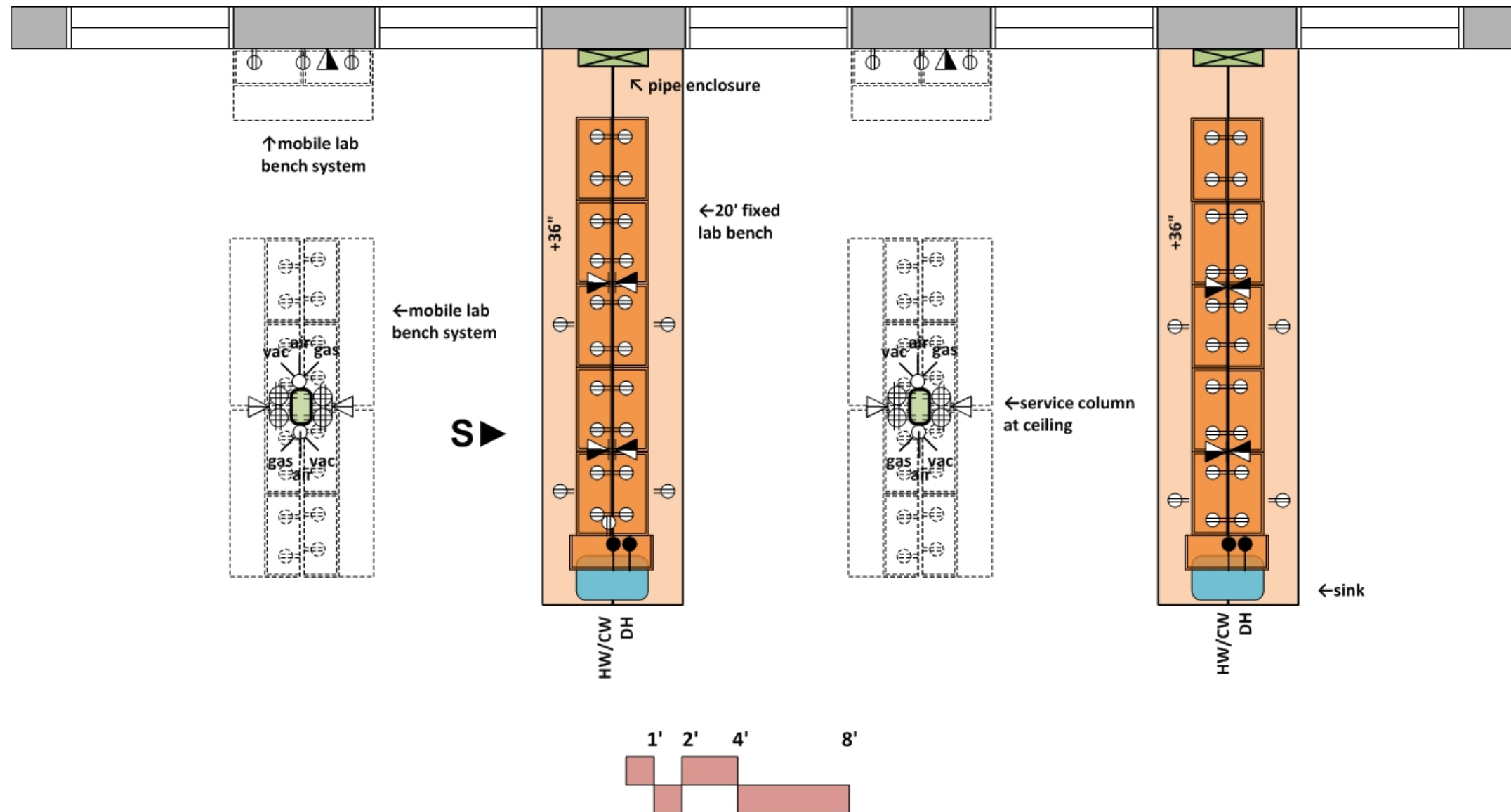
# Elevation K

## Equipment Entry

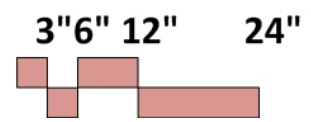
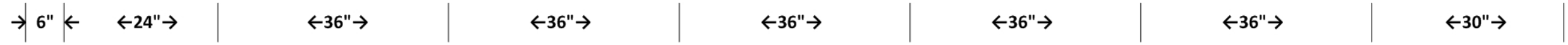
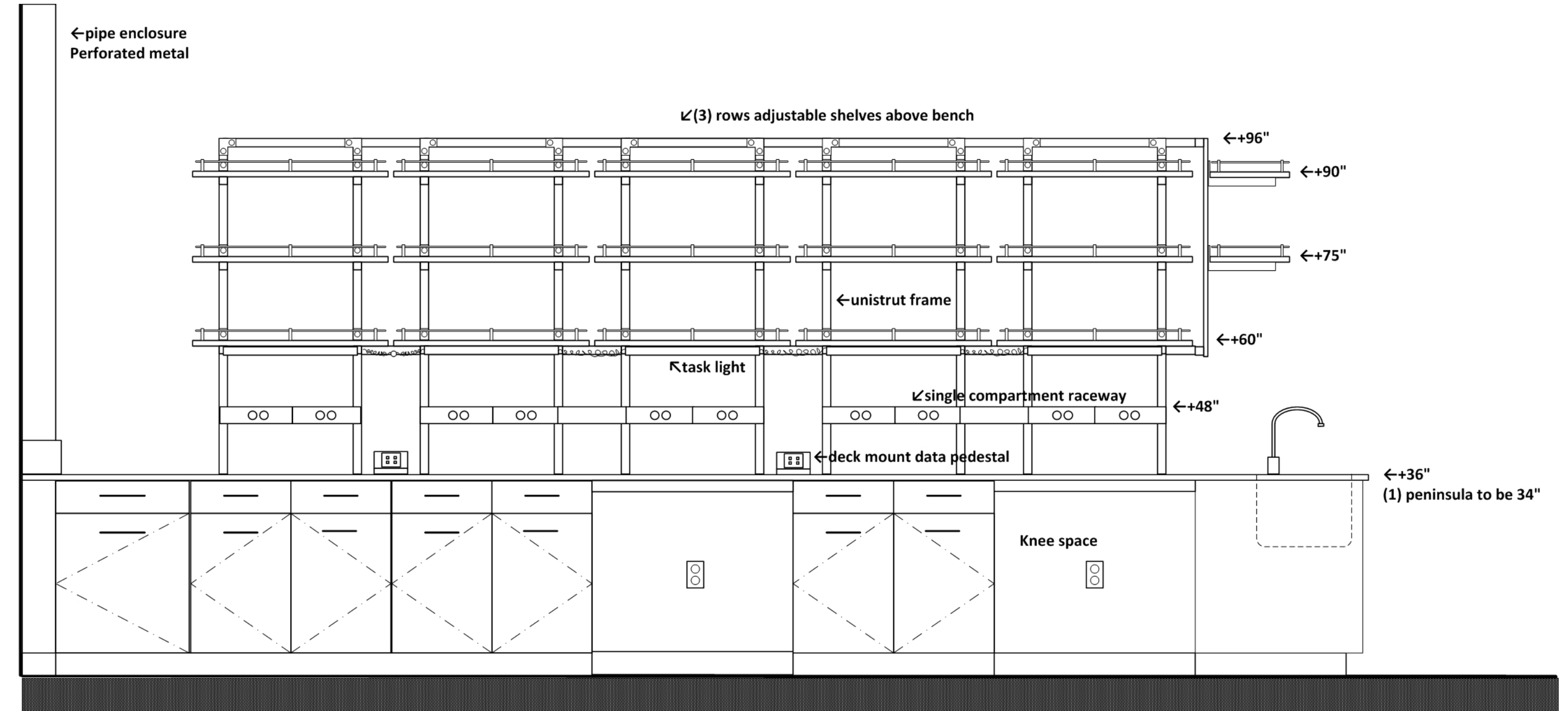


# Laboratory Level 1

similar to levels 2 and 3 except lab peninsulas are 20' in length



# Elevation S





## Protector® XStream™ Laboratory Hoods



Protector XStream Laboratory Hood 9840600 is shown with SpillStopper Work Surface 9849600, Protector Acid Storage Cabinet 9901100 and Protector Standard Storage Cabinet 9901100. Blower, ductwork, work surface and base cabinets must be ordered separately.

All models conform to the following regulations and standards:

- SEFA 1-2002
- NFPA 45-2000
- ASTM E84-01
- ASHRAE 110-95
- ANSI Z9.5-1993
- UL 3101-1/61010-1
- CAN/CSA C22.2 No. 1010.1
- UL 1805
- CE Conformity Marking (230 volt models)\*

Fixed models feature:

- Two pre-plumbed service fixtures with forged brass valves, lower right side with brass tubing for gas and lower left side with copper tubing for cold water. Components for converting either or both fixtures to air and vacuum are provided. **Inlet tubing is not provided.**
- One pre-wired 115 volt, 20 amp electrical duplex receptacle on lower right side.

All models require (not included):

- **Remote Blower.** See back pocket.
- **Ductwork.** See back pocket.
- **Work Surface.** See pages 92-95.
- **Base Cabinet or Stand.** See pages 96-106.

Optional accessories for on-site installation include:

- **Service Fixture Kits.** See page 107.
- **Electrical Duplex Kits.** See page 108.
- **Guardian Jr. and Digital Airflow Monitor Kits.** See page 108.
- **Distillation Grid Kits.** See page 110.
- **Sash Stop Kits.** See page 108.
- **Snuffer Fire Extinguishers.** See page 110.
- **Ceiling Enclosure and Rear Finish Panel Kits.** See page 109.

\* U.S. Patent No. 6,461,233

† pending

\* Heights of switches, electrical receptacle and service fixtures meet requirements of ADA.

■ Exclusive Feature

- Removable front and side panels and front and interior service access panels for access to plumbing and electrical wiring.
- Pre-wired T8 fluorescent lighting, ADA-compliant light and blower switches for 115 volt, 60 Hz operation.
- Sash stop located at 18" sash opening position.
- Epoxy-coated stainless steel, 12.81" ID exhaust connection(s).

Contact Labconco at **800-821-5525** or **816-333-8811** for ordering information on explosion-proof lighting and other sash configurations and for blower sizing assistance.

All models feature:

- Modified by-pass airflow design.
- Ergonomic air foil with aerodynamic Clean-Sweep\* airflow openings.
- Upper Dilution Air Supply\*
- Glacier white, dry powder epoxy-coated steel exterior.
- Chemical-resistant, fiberglass-reinforced, composite panel liner and pre-set Rear Downflow Dual Baffle System\* with flame spread less than 25 per ASTM E-84
- 3/16" thick tempered safety glass vertical-rising sash with epoxy-coated aluminum sash handle with large radius and perforations.\*

## Ordering Information

Protector® XStream™ Laboratory Hoods

ASHRAE 110-95 tests show less than 0.05 ppm leak rate when tested at 4.0 fpm; at OSHA-approved 60, 80, and 100 fpm face velocity and sash positions of 18" and 28". To ensure performance at 60 fpm, Labconco engineers challenged the Protector XStream Hood at less

than ideal conditions such as 30 fpm cross drafts, modified ASHRAE test procedures and average face velocities lower than 60 fpm. Contact Labconco for a technical paper with complete ASHRAE test data.

Total Exhaust CFM and Static Pressure @ 18" Sash Opening (60% open)

Nominal Width	100 fpm		80 fpm		60 fpm		CFM Savings at 60 fpm vs. 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm*
	s.p.	s.p.	s.p.	s.p.	s.p.	s.p.		
4 feet	470	0.11"	380	0.07"	280	0.04"	190	\$760
5 feet	610	0.13"	490	0.08"	370	0.05"	240	\$960
6 feet	750	0.15"	600	0.10"	450	0.06"	300	\$1,200
8 feet	1060	0.12"	850	0.08"	640	0.04"	420	\$1,680

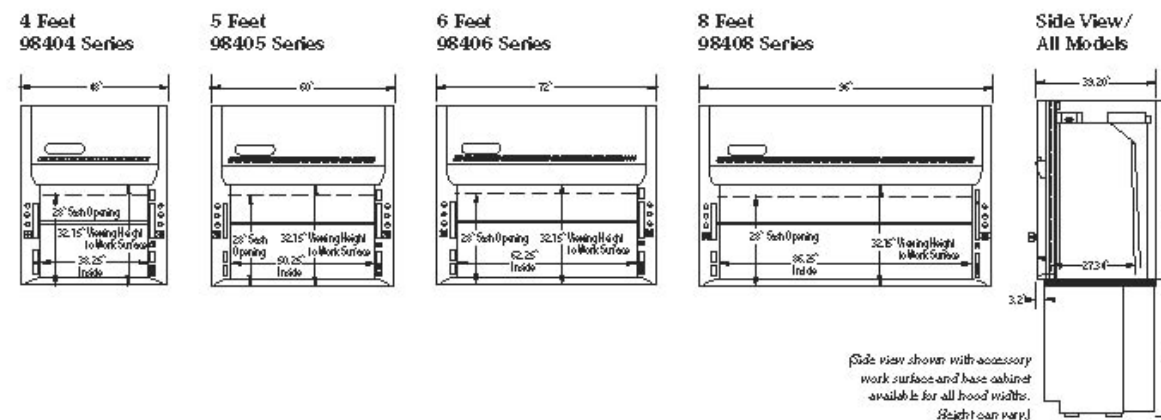
Total Exhaust CFM and Static Pressure @ 28" Sash Opening (100% open)

Nominal Width	100 fpm		80 fpm		60 fpm		CFM Savings at 60 fpm vs. 100 fpm	Total Average Annual Dollar Savings at 60 fpm vs. 100 fpm*
	s.p.	s.p.	s.p.	s.p.	s.p.	s.p.		
4 feet	730	0.25"	590	0.13"	440	0.08"	290	\$1,160
5 feet	960	0.30"	770	0.19"	580	0.11"	380	\$1,520
6 feet	1180	0.36"	940	0.23"	710	0.13"	470	\$1,880
8 feet	1660	0.28"	1330	0.18"	1000	0.10"	660	\$2,640

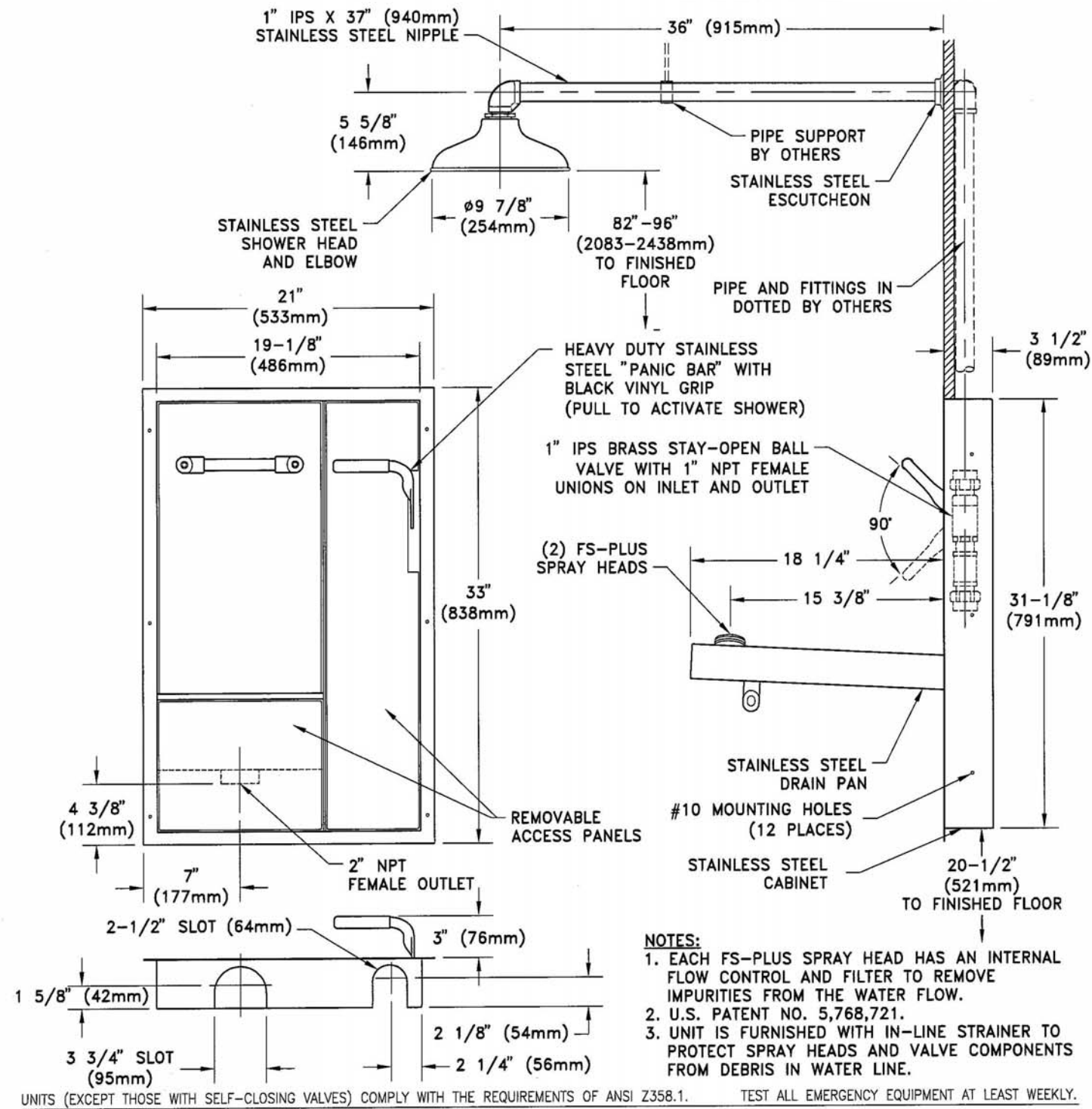
\*Based on average annual dollars per CFM usage of \$4.00; fume hood operating 24 hours a day and 5 days per week (6240 hours per year).

Catalog Number	Nominal Width	Electrical Requirements	Exterior Depth	Interior Working Depth	Fluorescent Lamps	Service Fixtures	Electrical Duplex	Exhaust Collar(s)	Shipping Wt. lbs./kg
9840400	4 feet	115 volts, 60 Hz	39.20"	27.3"	(2) 25 watt	None	None	12.81" ID	400/181
9840401	4 feet	115 volts, 60 Hz	39.20"	27.3"	(2) 25 watt	2	1	12.81" ID	400/181
9840402**	4 feet	230 volts, 50 Hz	39.20"	27.3"	(2) 25 watt	None	None	12.81" ID	400/181
9840403**	4 feet	230 volts, 50 Hz	39.20"	27.3"	(2) 25 watt	2	None	12.81" ID	400/181
9840500	5 feet	115 volts, 60 Hz	39.20"	27.3"	(2) 32 watt	None	None	12.81" ID	460/209
9840501	5 feet	115 volts, 60 Hz	39.20"	27.3"	(2) 32 watt	2	1	12.81" ID	460/209
9840502**	5 feet	230 volts, 50 Hz	39.20"	27.3"	(2) 32 watt	None	None	12.81" ID	460/209
9840503**	5 feet	230 volts, 50 Hz	39.20"	27.3"	(2) 32 watt	2	None	12.81" ID	460/209
9840600	6 feet	115 volts, 60 Hz	39.20"	27.3"	(2) 32 watt	None	None	12.81" ID	520/236
9840601	6 feet	115 volts, 60 Hz	39.20"	27.3"	(2) 32 watt	2	1	12.81" ID	520/236
9840602**	6 feet	230 volts, 50 Hz	39.20"	27.3"	(2) 32 watt	None	None	12.81" ID	520/236
9840603**	6 feet	230 volts, 50 Hz	39.20"	27.3"	(2) 32 watt	2	None	12.81" ID	520/236
9840800	8 feet	115 volts, 60 Hz	39.20"	27.3"	(4) 25 watt	None	None	(2) 12.81" ID	700/318
9840801	8 feet	115 volts, 60 Hz	39.20"	27.3"	(4) 25 watt	2	1	(2) 12.81" ID	700/318
9840802**	8 feet	230 volts, 50 Hz	39.20"	27.3"	(4) 25 watt	None	None	(2) 12.81" ID	700/318
9840803**	8 feet	230 volts, 50 Hz	39.20"	27.3"	(4) 25 watt	2	None	(2) 12.81" ID	700/318

\*\*International electrical configuration



**SSBF2170**  
 RECESSED SAFETY STATION WITH DRAIN PAN





# PRODUCT DIMENSIONS

DOMESTIC SIZES

## Sink Cut Sheet

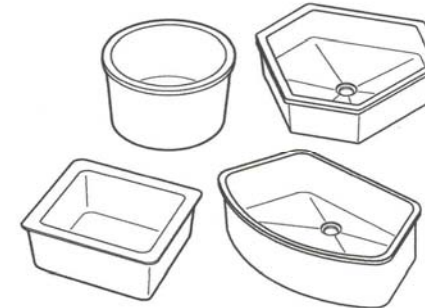
Standard lab sink: D59

Accessible sink: A26

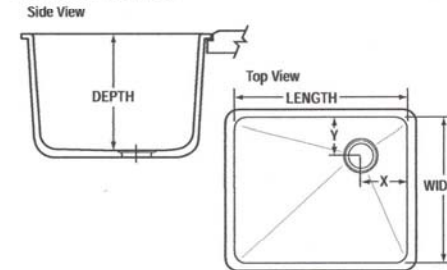
### Standard Dropln® Sinks

Sink No.	Outlet	Wgt (lb)	Dimensions (in)				
			Inside Bowl			Outlet Location	
			Length	Width	Depth	X	Y
D01C	Center	9	9.0	6.0	5.8	4.5	3.0
D03C	Center	16	12.0	8.0	5.8	6.0	4.0
A05	Corner	18	14.0	10.0	5.0	3.5	3.5
D05	Corner	22	14.0	10.0	6.2	3.5	3.5
D05C	Center	24	14.0	10.0	6.2	7.0	5.0
D10	End	20	16.0	8.0	6.8	4.5	4.0
D10C	Center	22	16.0	8.0	6.8	8.0	4.0
D15	Corner	30	16.0	12.0	8.0	3.5	3.5
D15C	Center	31	16.0	12.0	8.0	8.0	6.0
D19	Corner	42	16.0	16.0	9.6	3.5	3.5
D20	Corner	32	16.0	16.0	7.5	3.5	3.5
D22C	Center	30	18.0	6.5	6.8	9.0	3.3
D24(C)	Center	30	18.0	14.0	10.5	9.0	6.8
A25	Corner	35	18.0	15.0	5.0	3.5	3.5
D25	Corner	39	18.0	15.0	7.9	3.5	3.5
D30	Corner	53	18.0	15.0	11.0	3.5	3.5
D30C	Center	50	18.0	15.0	10.8	9.0	7.5
D33E	End	59	21.0	17.0	9.8	4.5	8.5
D45	Corner	64	21.5	15.5	11.0	3.5	3.5
D50C	Center	48	24.0	16.0	8.0	12.0	8.0
D52	Corner	77	24.0	18.0	11.0	3.5	3.5
A55	Corner	47	25.0	15.0	4.8	3.5	3.5
D55	Corner	61	25.0	15.0	10.0	3.5	3.5
D59	Corner	61	28.0	15.0	11.8	3.5	3.5
DRS12	Center	18	12.0	Round	7.8	Center	

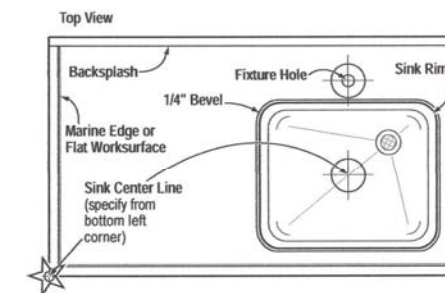
### Dropln® Sink Styles



### Dimensions Key



### Installation Detail

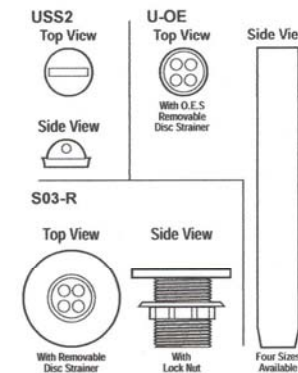


### Special Order Dropln® Sinks

Sink No.	Outlet	Wgt (lb)	Dimensions (in)				
			Inside Bowl			Outlet Location	
			Length	Width	Depth	X	Y
D06*	Center	34	12.0	12.0	12.0	6.0	6.0
A07*	Corner	24	14.0	14.0	5.0	3.5	3.5
D08*	Corner	25	15.0	8.0	6.0	3.5	3.5
D09*	Corner	25	15.0	8.0	10.8	3.5	3.5
D21*	Corner	58	16.0	16.0	15.0	3.5	3.5
A26*	Corner	39	18.0	15.0	5/11	4.5	5.5
D32	Corner	49	18.0	15.0	15.8	3.5	3.5
D51*	Corner	60	24.0	16.0	9.6	3.5	3.5
D54*	Corner	45	25.0	15.0	8.0	3.5	3.5
D57*	Corner	71	25.0	15.0	13.6	3.5	3.5
D58*	Corner	79	25.0	15.0	17.8	3.5	3.5
D61	End	94	30.0	16.0	17.8	4.5	7.5
D65C*	Center	98	35.5	19.5	9.8	17.8	9.8
D68**	End	70	30.0	16.0	10.0	4.75	8.0
D70C*	Center	95	24.0	16.0	15.5	8.0	12.0
D100**	Center	29	22.5	Hexagon	5.0	Center	
D200**	End	64	30.9	Hexagon	7.0	15.5	8.0
DRS10*	Center	14	10.0	Round	7.8	Center	
DHC20*	End	82	30.0	Hexagon	7.0	Center	
D99*	End	56	32.0	Semi-Circle	10.0	11.5	4.5

All sinks are available at both plants unless they are Special Order Sinks, available as noted:  
 \* Available only from Taylor, TX, plant (colors: Black Onyx, Gray, Graphite, Tan, Forest Green and Steel Blue).  
 \*\* Available only from Canton, MI, plant (colors: Black Onyx, Gray and Alpine White)  
 ♿ ADA compliant sinks are designated by this symbol.  
 All Dimensions are nominal. Exterior dimensions vary by MFG location. Cutsheets available upon request.

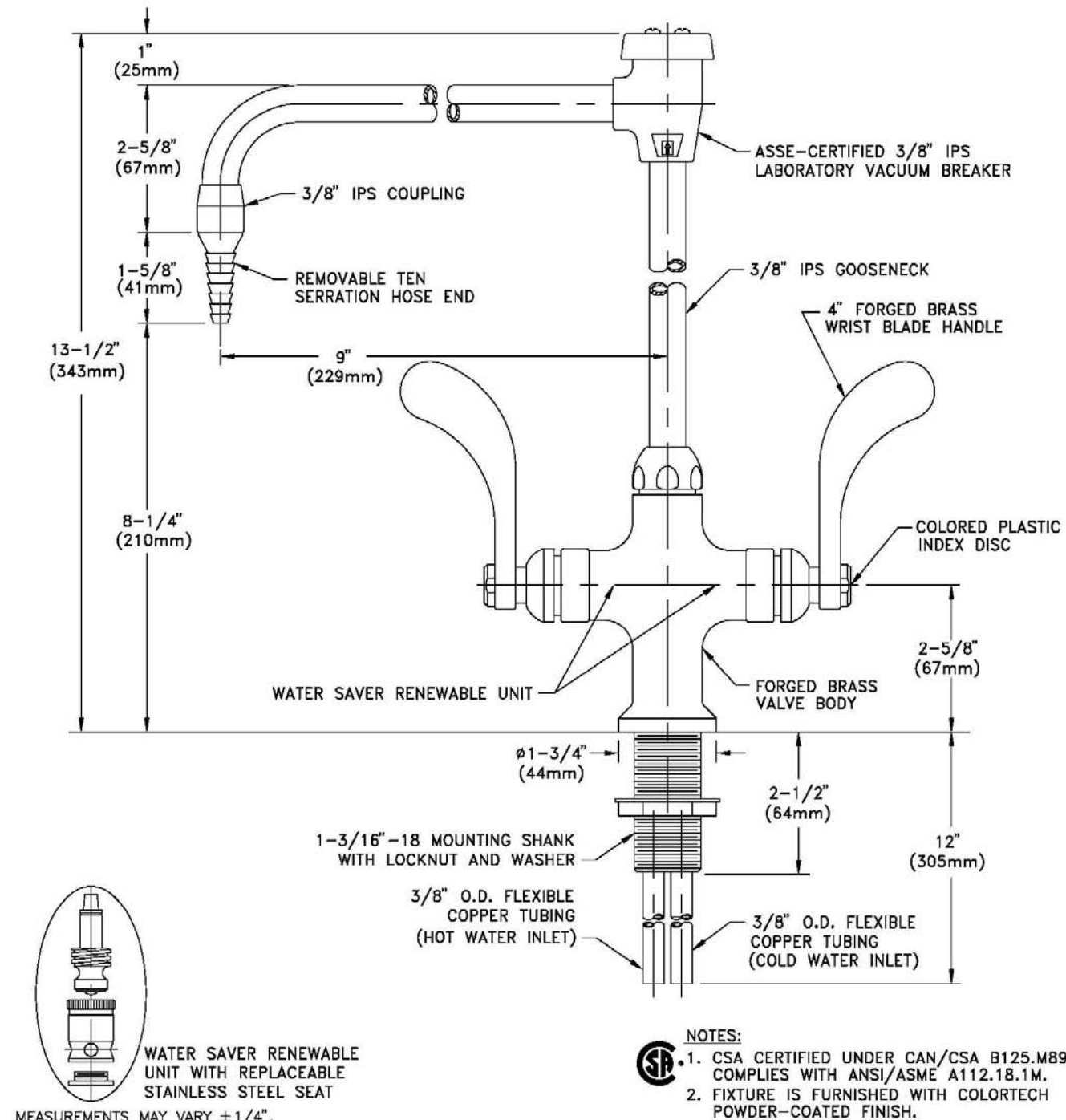
### Outlets & Accessories



Laboratory Service Fixtures by  
WaterSaver Faucet Co.

CT414-9VB-BH

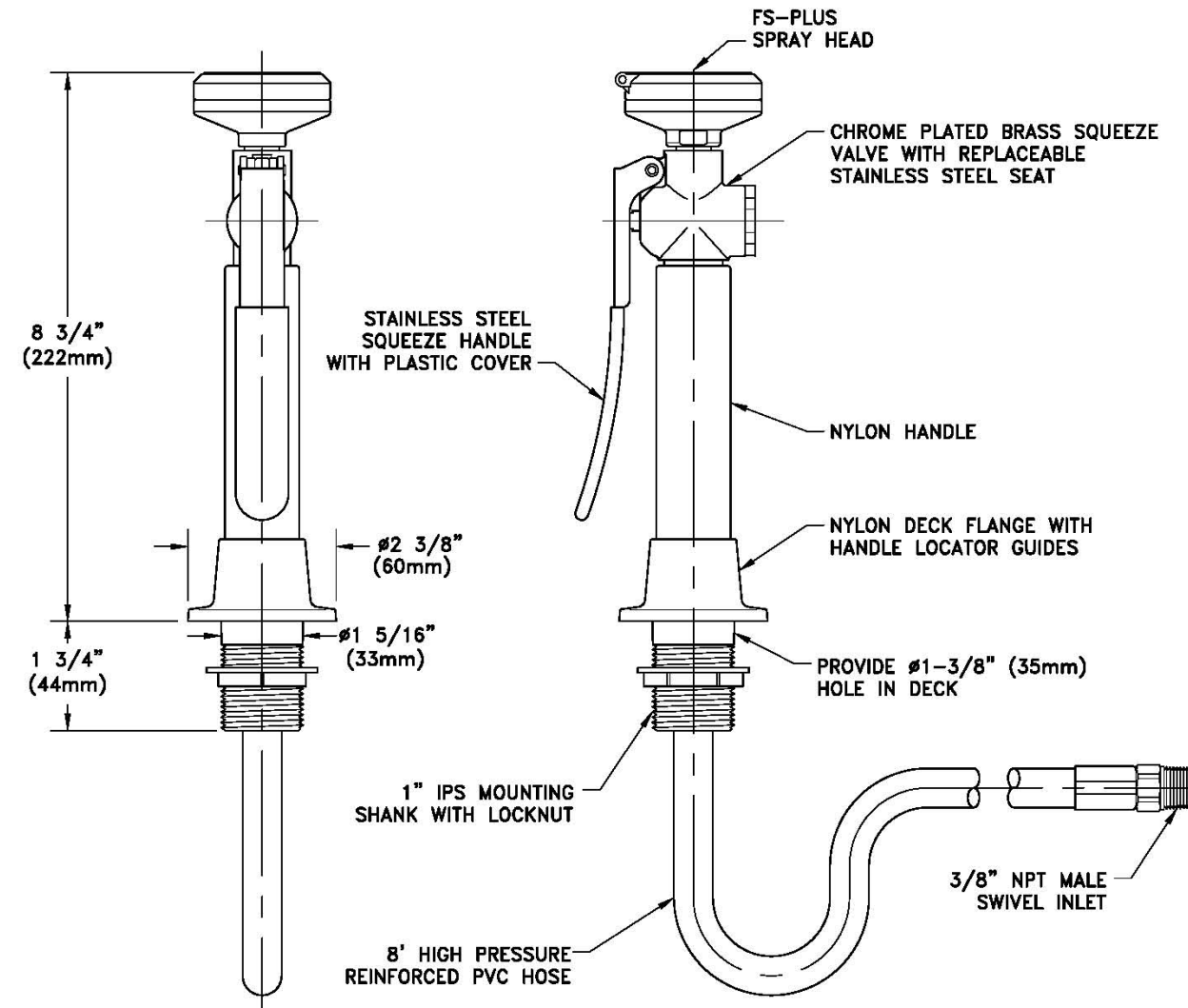
LABORATORY MIXING FAUCET, DECK MOUNTED, 9" RIGID/SWING VACUUM BREAKER GOOSENECK, WRIST BLADE HANDLES



Drawing Number: \_\_\_\_\_

Revision Number: 031803-KJS

**EW1020**  
 DRENCH HOSE UNIT, DECK MOUNTED



**NOTES:**

1. FS-PLUS SPRAY HEAD HAS A "FLIP-TOP" DUST COVER, INTERNAL FLOW CONTROL AND FILTER TO REMOVE IMPURITIES FROM THE WATER FLOW.
2. HOSE SHOULD NOT BE USED IN APPLICATIONS WHERE WATER PRESSURE EXCEEDS 90 PSI. HOSE SHOULD BE INSPECTED PERIODICALLY FOR DETERIORATION.

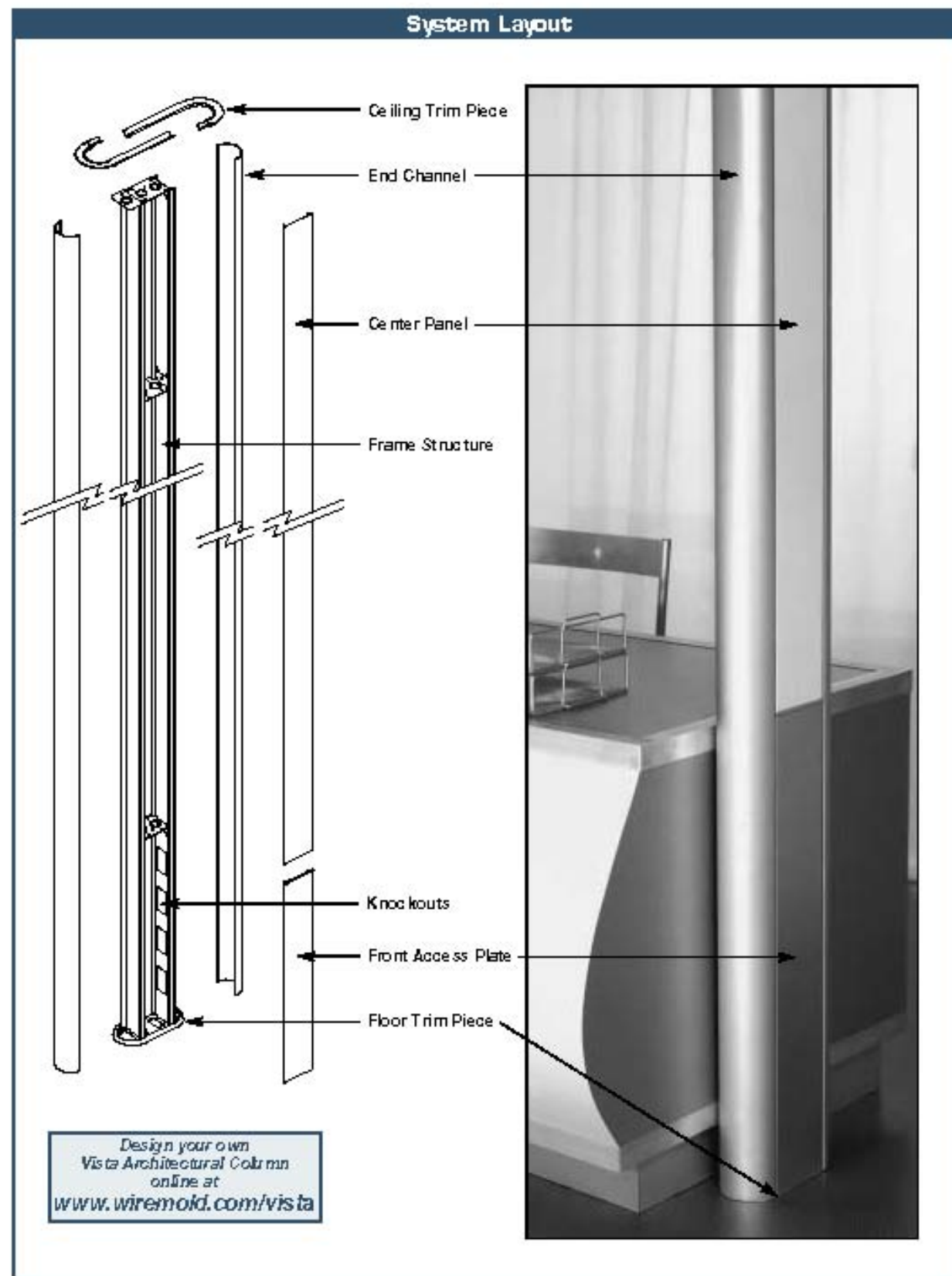
MEASUREMENTS MAY VARY  $\pm 1/4"$ .

Drawing Number: \_\_\_\_\_

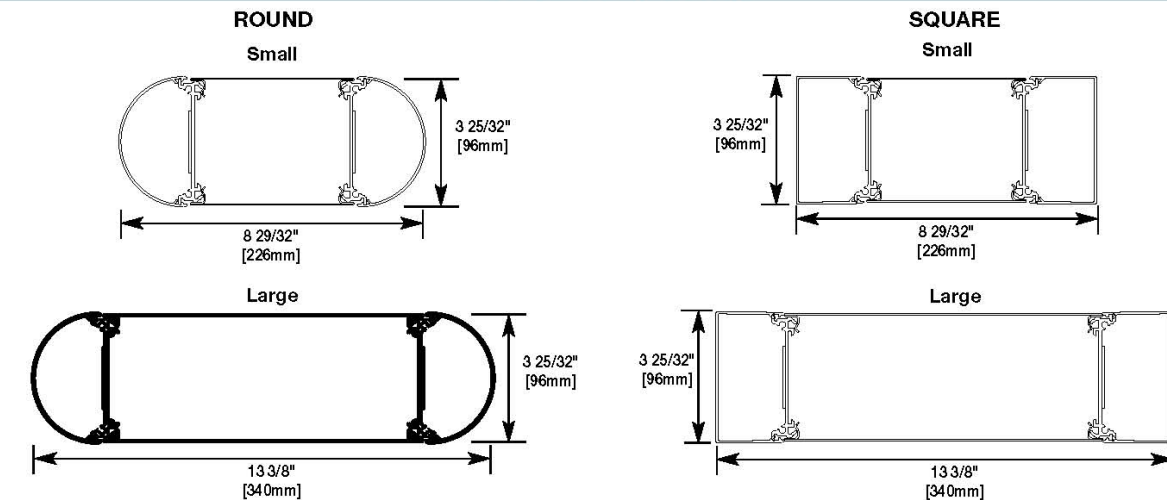
Revision Number: 042203-TPS

# Service Column Cut Sheet

specify with 6" width



## Overall Dimensions



## Vista Series Wire Fill Capacity for Communication

	CABLE/WIRE SIZE	O.D. Inches [mm]	ONE SQUARE END CHANNEL	ONE ROUND END CHANNEL	SMALL CENTER	LARGE CENTER	ONE SQUARE EXTENSION	ONE ROUND EXTENSION
UNSHIELDED TWISTED PAIR	Cat 3, 2-pair, 24 AWG	0.140 [3.6]	190	150	40	80	131	94
	Cat 3, 3-pair, 24 AWG	0.150 [3.8]	165	131	34	68	114	82
	Cat 3, 4-pair, 24 AWG	0.190 [4.8]	103	81	22	44	71	51
	Cat 3, 25-pair, 24 AWG	0.410 [10.4]	22	17	4	8	15	11
	Cat 5e, 4-pair, 24 AWG	0.220 [5.6]	77	61	16	32	53	38
	Cat 6, 4-pair, 24 AWG	0.250 [6.3]	59	47	12	24	41	29
SHIELDED TWISTED PAIR	Type 1, 22 AWG	0.390 [9.9]	24	19	4	8	16	12
	Type 2, 22 AWG	0.465 [11.8]	17	13	2	4	11	8
	Type 3, 24 AWG	0.245 [6.2]	62	49	12	24	42	30
COAXIAL	RG58/U, 20 AWG	0.195 [5.0]	98	77	20	40	67	48
	RG58/U, 22 AWG	0.242 [6.1]	63	50	12	24	43	31
	RG6/U, 22 AWG	0.242 [6.1]	63	50	12	24	43	31
	RG6/U, 18 AWG	0.270 [6.9]	51	40	10	20	25	25
TWINAXIAL	100 Ohm	0.330 [8.4]	34	27	60	12	23	71
FIBER OPTIC		0.180 [4.6]	103	81	22	44	71	51

\* Capacity range is calculated at 40% of raceway area as stated in a proposed revisions to the Commercial Building Standard for Telecommunication Pathways & Spaces, EIA/TIA-569. Actual wire fill capacity may vary based on applications, cable types, and number, as well as type of fittings. (Fittings may cause additional variances to the fill capacity.)

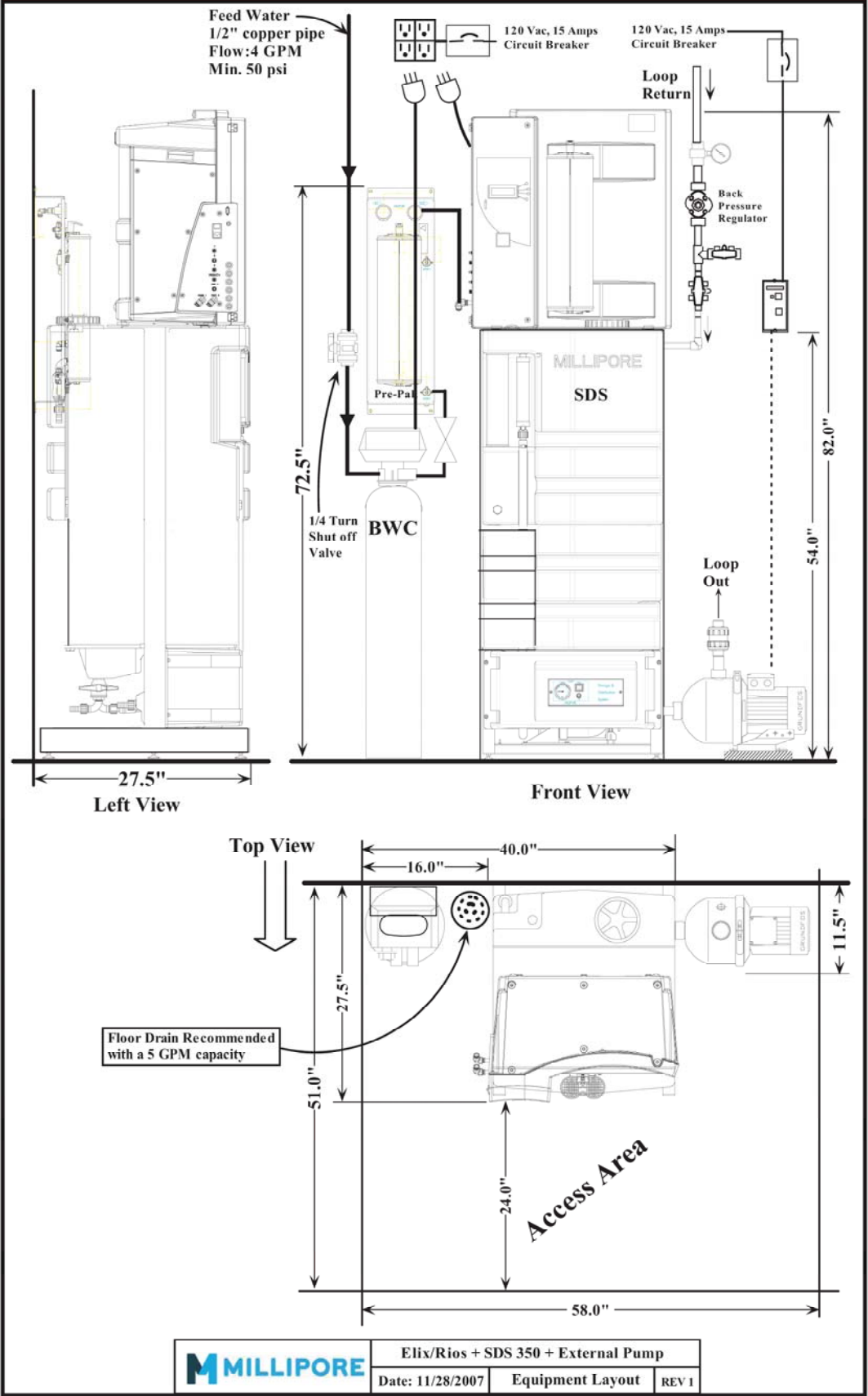
## Vista Wire Fill Capacity for Power

Capacity of Compartment	WIRE SIZE THHN/THWN				
	6 AWG	8 AWG	10 AWG	12 AWG	14 AWG
One End Channel Round or Square	7	9	16	26	35
Center (Small)	14	18	32	52	70
Center (Large)	28	36	64	104	140
One Extension Round or Square	4	6	10	16	22



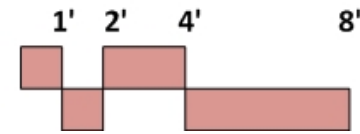
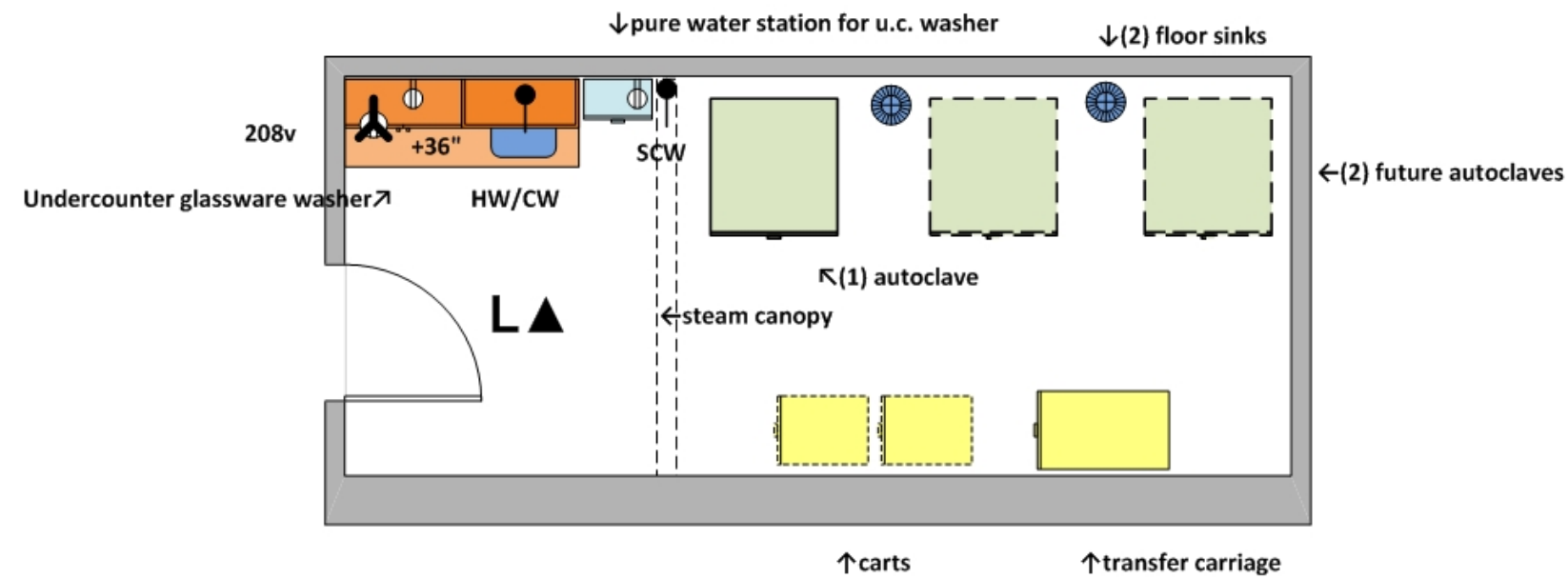
**The Wiremold Company**  
 U.S. and International:  
 60 Woodlawn Street • West Hartford, CT 06110  
 1-800-621-0049 • FAX 860-232-2062 • Outside U.S. 860-233-6251  
 Canada:  
 850 Gartshore Street • Fergus, Ontario N1M 2W8  
 1-800-741-7957 • FAX 519-843-5980

# Pure Water Station Cut Sheet



# Autoclave Room

Shown (1) Room at level 2  
 Similar (1) Room at level 1  
 Similar (1) Room at level 3



## ARCHITECTURAL

- Occupancy: B
- Floor: ground, sealed concrete
- Walls: gypsum board, enamel paint
- Steam canopy at 8' above floor
- Ceiling: 9' gypsum board, enamel paint
- Door: 3<sup>6</sup>x8<sup>0</sup> with view window
- Sound Attenuation: NC 50 or less
- Security: card reader access

## STRUCTURAL

- Vibration attenuation: 4,000 microinches per second or less

## MECHANICAL

- Temperature: 72 deg. F
- Humidity: 30-50% relative
- Pressure: negative
- 100% exhaust
- Heat gain: 75 btuh/sf

## ELECTRICAL

- 480v50a3ph at autoclaves with disconnect
- 208v at undercounter glassware washer
- 115v20a at bench
- wireless data
- Lighting: sealed recessed fluorescent at 60 f.c. (stepped)

## PLUMBING

- Industrial cold water at sink
- pure water rinse at undercounter washer
- hot, cold water (softened) at autoclaves
- Softened Cold Water (SCW) at pure water station
- Autoclaves include integral electric steam generator
- floor sinks

## CONTRACTOR FURNISHED EQUIPMENT

- bench with sink
- (1) autoclave with transfer carriage and loading cart
- undercounter glassware washer with pure water station

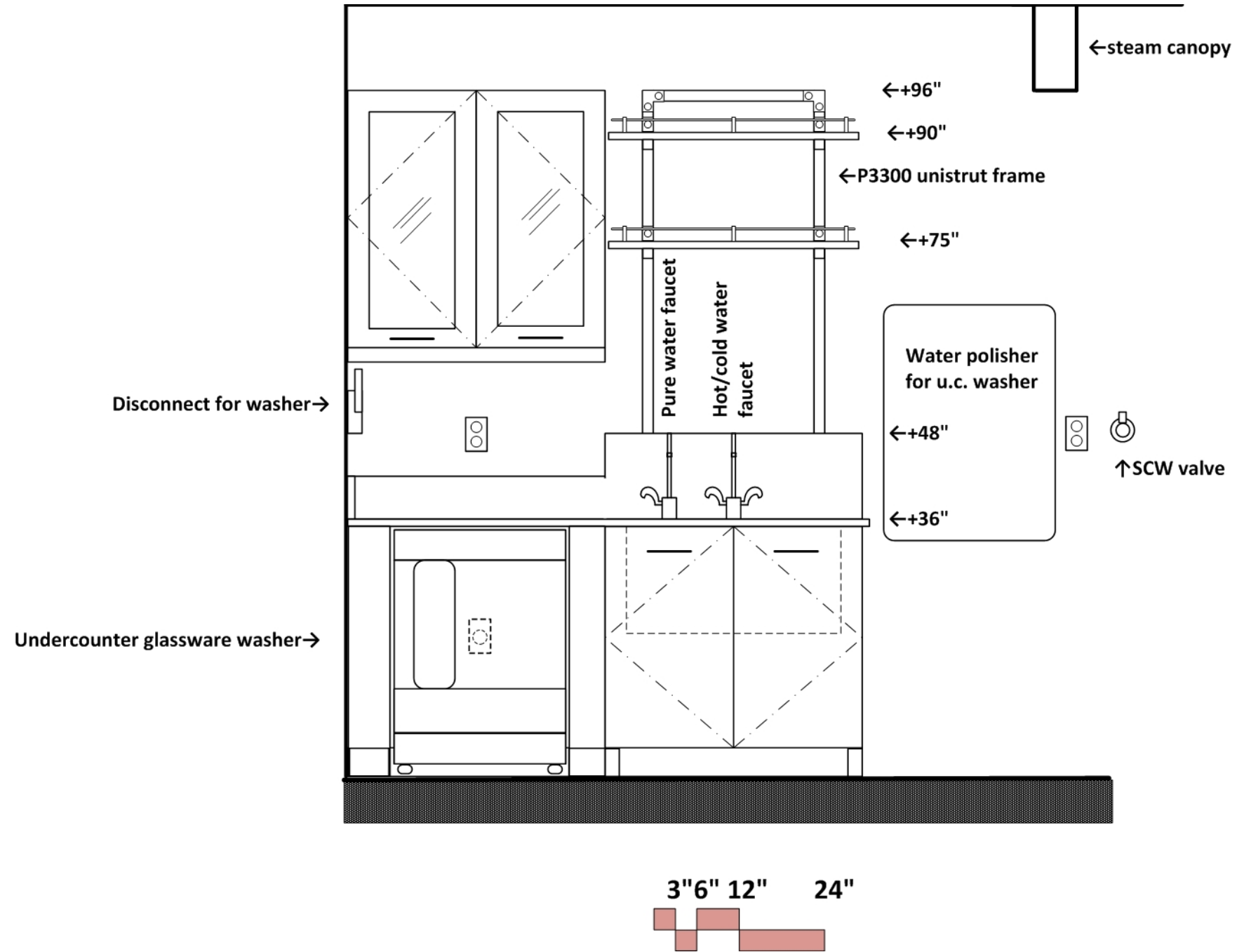
## UCSB FURNISHED EQUIPMENT

- (2) future autoclaves
- carts



# Elevation L

Autoclave bench and sink



# Autoclave Cut Sheet

## SSR-3A



### Consolidated Sterilizers

Designed to Transform Your Laboratory

#### Small Lab Series Steam Sterilizers

##### General Specifications

##### General Specification

Steam Sterilizer, Radial-Arm Door(s), Hinged, Single Chamber, Double Wall

Consolidated Small Lab Series Sterilizers are designed to sterilize at temperatures between 212° F and 275° F (100° C and 135° C) through the use of steam. Choose from a stainless steel or nickel-clad steel vessel construction in a variety of sizes and programmable control options for pre-vacuum or gravity operation. Consolidated sterilizers offer a range of performance options to meet the most demanding applications in clinical, animal and life science, biotechnology, pharmaceutical, and commercial/industrial applications.

Model	Chamber Dimensions (w x h x f-b)	Volume (per chamber)
SSR-2A	16" x 16" x 26" 40.6 x 40.6 x 66 cm	3.9 cu. ft. 109 liters
SSR-3A	20" x 20" x 38" 50.8 x 50.8 x 96.5 cm	8.8 cu. ft. 249 liters
SR-24A	24" x 24" x 36" 61 x 61 x 91.4 cm	12 cu. ft. 340 liters
SR-24B	24" x 24" x 48" 61 x 61 x 122 cm	16 cu. ft. 453 liters
SR-26A	26" x 26" x 39" 66 x 66 x 99 cm	15.25 cu. ft. 430 liters

##### Features and Benefits

##### Simplified Maintenance, Low Cost of Ownership.

All Consolidated sterilizers are manufactured in the USA and built from commonly available parts to allow quick and cost effective field-level service and maintenance.

##### Serviceability.

Easy access to replaceable components, local component availability and common electrical and plumbing parts permit qualified facility or area service companies to maintain the sterilizer. The radial-arm, solid-silicone door gasket is selected for durability; the gasket is easily replaced if required.

##### Control Flexibility.

A choice of programmable controllers allows a broad range of performance functions, complete with alarm, monitoring and communications required for internal or third-party compliance.

##### Performance Cycles—Basic to Advanced.

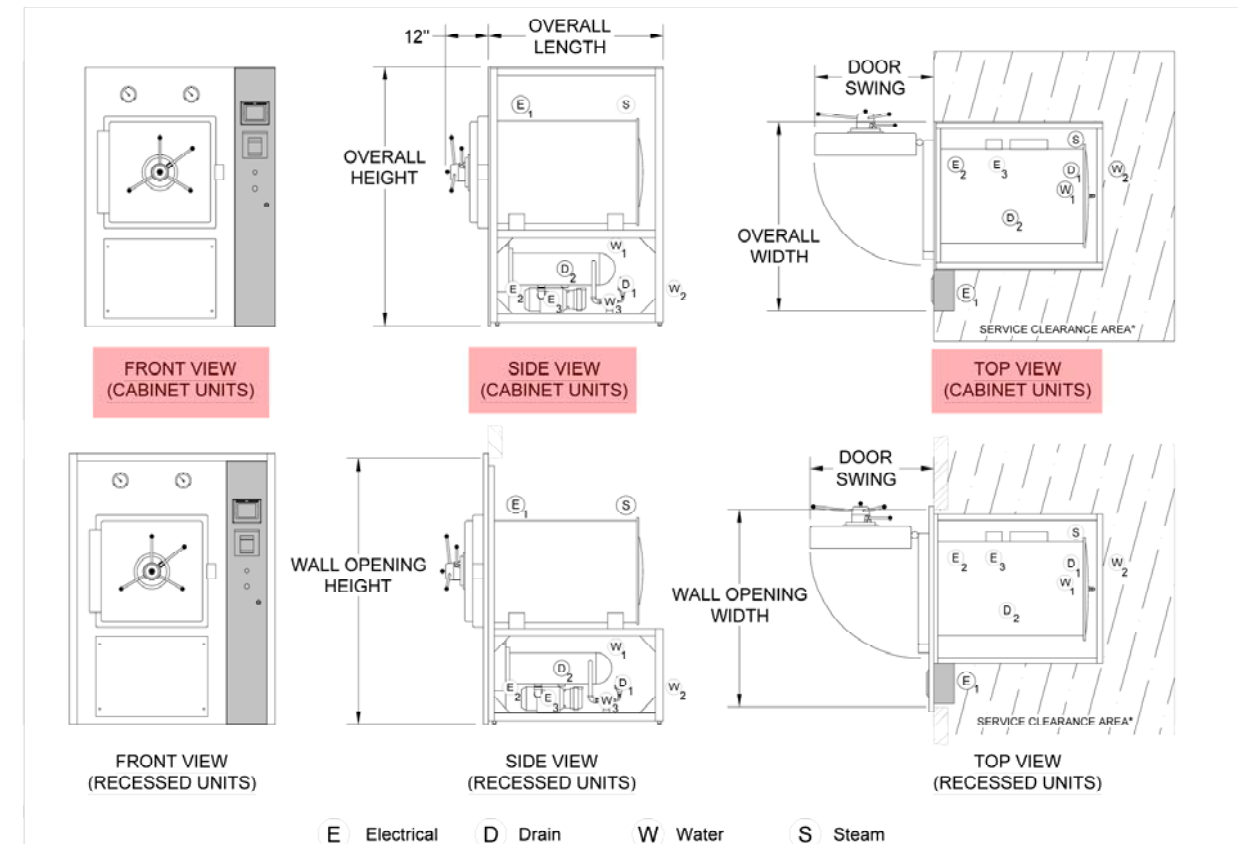
The fully-jacketed sterilizer design permits vacuum and pressure control when configured for pre-vacuum, post-vacuum, and more sophisticated functions such as air-over-pressure. Consolidated sterilizers are ideal for sterilizing wrapped and unwrapped goods, liquids, waste, and other applications. All cycles are easily managed and documented.

##### Green and Environmentally Friendly.

Unique, new water-saving technologies reduce water consumption without compromising performance.



Consolidated Small Lab Series Sterilizers are available in single door, pass-thru and dual (tower) models. A versatile control system offers a range of performance options to meet the most demanding applications in clinical, life science, biotechnology, pharmaceutical, and commercial/industrial applications. Model PT-24A-ADVPRO shown with ADV-PRO programmable logic controller.



##### Notes

- Right side control housing, left side door hinge shown. Standard control location is opposite hinge. Opposite mounting is available upon request.
- Alternative controller mounting options are available at no charge for installations into smaller wall openings. Contact Consolidated to arrange a solution.
- The control housing is shipped detached from the sterilizer to allow passing through doorways, reducing overall pre-installation width by 10 3/8". When the sterilizer is installed, the control housing and electrical connections are easily attached.
- Standard plumbing and utility access is primarily located on the same side as the door hinge. If location of plumbing is important to your installation contact Consolidated to arrange a solution.
- CAD Blocks are available for insertion into plan drawings.

Table 1: Sterilizer Unit Dimensions<sup>1</sup>

Model	SSR-2A	SSR-3A	SR-24A	SR-24B	SR-26A
Chamber Dimensions (w x h x f-b)	16" x 16" x 26" 40.6 x 40.6 x 66 cm	20" x 20" x 38" 50.8 x 50.8 x 96.5 cm	24" x 24" x 36" 61 x 61 x 91.4 cm	24" x 24" x 48" 61 x 61 x 122 cm	26" x 26" x 39" 66 x 66 x 99 cm
Volume	3.9 cu. ft. 109 liters	8.8 cu. ft. 249 liters	12 cu. ft. 340 liters	16 cu. ft. 453 liters	15.3 cu. ft. 430 liters
Overall Width	38.375" 97.5 cm	38.375" 97.5 cm	46.375" 117.8 cm	46.375" 117.8 cm	48.375" 122.9 cm
Overall Height	71" 180.3 cm	71" 180.3 cm	71" 180.3 cm	71" 180.3 cm	71" 180.3 cm
Overall Length	32.375" 82.2 cm	42" 106.7 cm	42" 106.7 cm	54" 137.2 cm	44.5" 113 cm
Wall Opening Width <sup>2</sup>	40.375" 102.6 cm	40.375" 102.6 cm	48.375" 122.9 cm	48.375" 122.9 cm	50.375" 128 cm
Wall Opening Height	72" 182.9 cm	72" 182.9 cm	72" 182.9 cm	72" 182.9 cm	72" 182.9 cm
Door Swing	22.5" 57.2 cm	27" 68.6 cm	33.5" 85.1 cm	33.5" 85.1 cm	35.5" 90.2 cm

<sup>1</sup> Additional options may require a larger footprint.  
<sup>2</sup> Alternative controller mounting options are available at no charge for installations into smaller wall openings. Contact Consolidated or your Consolidated Sales Representative to arrange a solution.

DATE	01/20/10	CONSOLIDATED STERILIZER SYSTEMS
DRAWN	M. PETERS	70 ASPHORO ST., BOSTON MA 02134
REVISION	M. PETERS 01/20/10	TITLE
END APPR		SMALL STERILIZER
DATE		CUT SHEET
		ADV PB/PRO/PLUS
		SIZE
		DWG. NO. 91015
		REV 1.A
		SCALE: N/A WEIGHT: --- SHEET 1 OF 2



Featuring Green Technology for Energy Savings and Minimal Environmental Impact

# Glassware Washer Cut Sheet

Steamscrubber 44003-11

## SteamScrubbers® Features & Benefits

*Ideal washer for cleaning beakers and other general purpose labware*

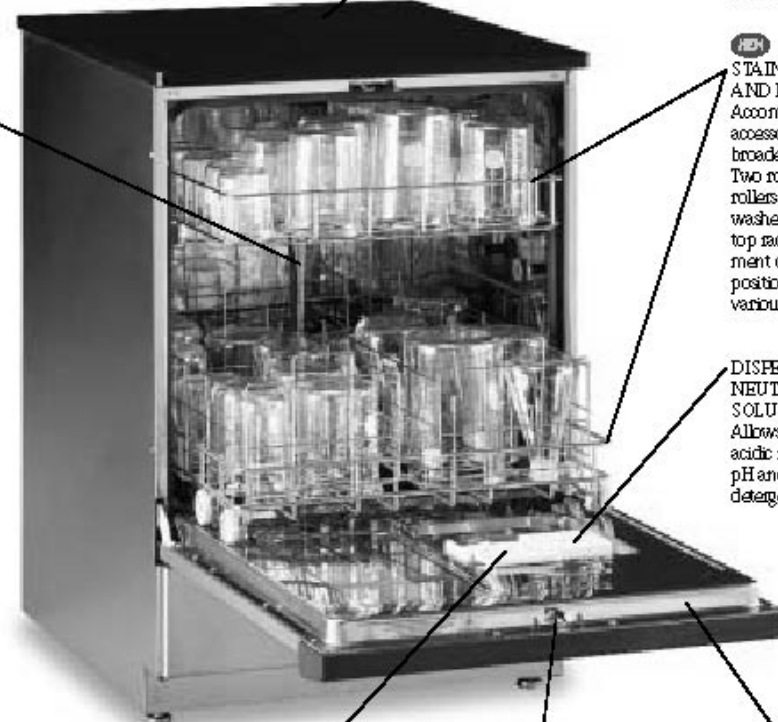
**MIRROR BRIGHT TYPE 304 STAINLESS STEEL INTERIOR**  
The shiny, non-porous finish provides a corrosion-resistant surface which reduces contaminant carry over during wash and rinse cycles.

**PARTICLE FILTER**  
One-piece stainless steel screen filters fine particles, protecting the pump from broken glass and debris.

**MELAMINE-COVERED TOP**  
On mobile and freestanding models, the high-density particle board top is melamine-coated on all sides to repel moisture.

**QUIET, ENERGY EFFICIENT OPERATION AT 62 DECIBELS**  
Aluminum-backed, sound-densifying material is strategically placed throughout the washer to absorb noise. An insulation blanket optimizes internal tank temperature while conserving energy.

**UPPER AND LOWER ROTATING WASH ARMS WITH ADJUSTABLE HEIGHT CENTER TOWER**  
Distribute up to 60 gallons (227 liters) of water per minute. Wash arms clean with a 360° revolving motion. The lower arm pumps water upward through the bottom rack while the upper arm propels water down across glassware below and up through the top rack. The center telescoping tower has a locking pin that adjusts the upper arm to 2 positions to accommodate various glassware heights.



**STAINLESS STEEL TOP AND BOTTOM RACKS**  
Accommodate a variety of accessory inserts and the broadest range of glassware. Two rows of factory-installed rollers on the sides of the washer's interior guide the top rack and allow placement of the rack in two positions to accommodate various glassware heights.

**DISPENSER FOR NEUTRALIZING SOLUTION**  
Allows addition of mildly acidic rinse solution to alter pH and eliminate alkaline detergent carry over.

**BUILT-IN FORCED AIR DRYING SYSTEM**  
Dries glassware with hot, dry air.

**STEAM GENERATOR**  
Produces hot vapor to penetrate and soften dried residue allowing detergent and hot water to work effectively.

**DUAL HEATERS**  
Boost water and glassware temperatures to enhance washing and drying results by applying heat during all cycles. Models for operation on 115 volts have 1450 watts of heating power; 230 volt models have 2150 watts. With a minimum inlet temperature of 120° F (49° C), the pump heater elevates water temperature approximately 20° F (11° C) on 115 volt models and 60° F (33° C) on 230 volt models.

**BUILT-IN PURIFIED WATER PUMP**  
Draws from a storage tank or pressurized system to deliver purified water during final two rinses.

**EASY INSTALLATION**  
To begin operation, tap and purified water, a drain and electricity are required. Mobile models feature a quick-disconnect attachment for tap water and drain. Undercounter and freestanding models have straight line plumbing and electrical connections accessible from the front. Higher built-in drain location prevents self-draining and plumbing errors.

**DRY OR LIQUID DETERGENT DISPENSER**  
Detergent compartments release a premeasured amount (1.35 ounces or 40 ml) ensuring clean labware.

**FULL ONE YEAR WARRANTY**  
Is provided against defects in materials and workmanship.

**DRAW LATCH**  
Securely locks the door energizing the electronic controls.

**INTERNATIONAL ELECTRICAL CONFIGURATIONS AVAILABLE**  
All 230 volt models conform to the CE (European Community) requirements for electrical safety and electromagnetic compatibility.

**TYPE 304 STAINLESS STEEL DOOR**  
Front door is sleek brushed stainless steel. Mobile and freestanding models also have brushed stainless steel sides and epoxy-coated steel backs.

**ETL LISTED**  
Washer carries the ETL Testing Laboratories seal in the U.S. and ETL-C seal in Canada, signifying it meets or exceeds all minimum requirements of UL Standard 3101-1 and CAN/CSA C22.2 No. 1010.1.



**Exclusive feature**

### Undercounter SteamScrubbers

24.0" w x 26.4" d x 34.3" h minimum to 36.3" h maximum (60.9 x 67.1 x 87.1 to 92.1 cm).

Shipping weight 142 lbs. (64 kg). Includes one 3/8" IPS inlet fitting for tap water, one fitting for 3/4" ID hose for purified water, one Top Rack, one Bottom Rack, and leveling feet.

Catalog Number	Electrical Requirements	High Heat	Options Window	Required (not included)
44003-00	115 v, 60 Hz, 16 amps			wiring to a 20 amp dedicated circuit 1 1/2" vent trap or drain air gap
44003-01	230 v, 50/60 Hz, 13 amps	♦		wiring to a 20 amp dedicated circuit 1 1/2" vent trap or drain air gap
44003-10	115 v, 60 Hz, 16 amps		♦	wiring to a 20 amp dedicated circuit 1 1/2" vent trap or drain air gap
44003-11	230 v, 50/60 Hz, 13 amps	♦	♦	wiring to a 20 amp dedicated circuit 1 1/2" vent trap or drain air gap

### Freestanding SteamScrubbers

24.5" w x 26.7" d x 35.1" h minimum to 37.1" h maximum (62.2 x 67.8 x 89.2 to 94.2 cm). Shipping weight 189 lbs. (86 kg). Includes melamine-covered top, stainless steel front and side panels, epoxy-coated steel back panel, 3/8" IPS inlet for tap water, one fitting for 3/4" ID hose for purified water, one Top Rack, one Bottom Rack, and leveling feet.

Catalog Number	Electrical Requirements	High Heat	Options Window	Required (not included)
44004-00	115 v, 60 Hz, 16 amps			wiring to a 20 amp dedicated circuit 1 1/2" vent trap or drain air gap
44004-01	230 v, 50/60 Hz, 13 amps	♦		wiring to a 20 amp dedicated circuit 1 1/2" vent trap or drain air gap
44004-10	115 v, 60 Hz, 16 amps		♦	wiring to a 20 amp dedicated circuit 1 1/2" vent trap or drain air gap
44004-11	230 v, 50/60 Hz, 13 amps	♦	♦	wiring to a 20 amp dedicated circuit 1 1/2" vent trap or drain air gap

# FlaskScrubber® & SteamScrubber® Laboratory Glassware Washers

COMPANION PRODUCTS



Water Filtration

Water Filtration RO Stations

Water Filtration RO Station



Support Stand



Liter Storage Tank

Requires Reverse Osmosis Membrane Filter and Carbon Filter for operation

\* Water Filtration RO Station

an electrical plug is required

Reverse Osmosis Membrane Filter and Carbon Filter for operation

Reverse Osmosis Membrane Filter and Carbon Filter for operation

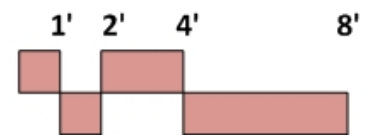
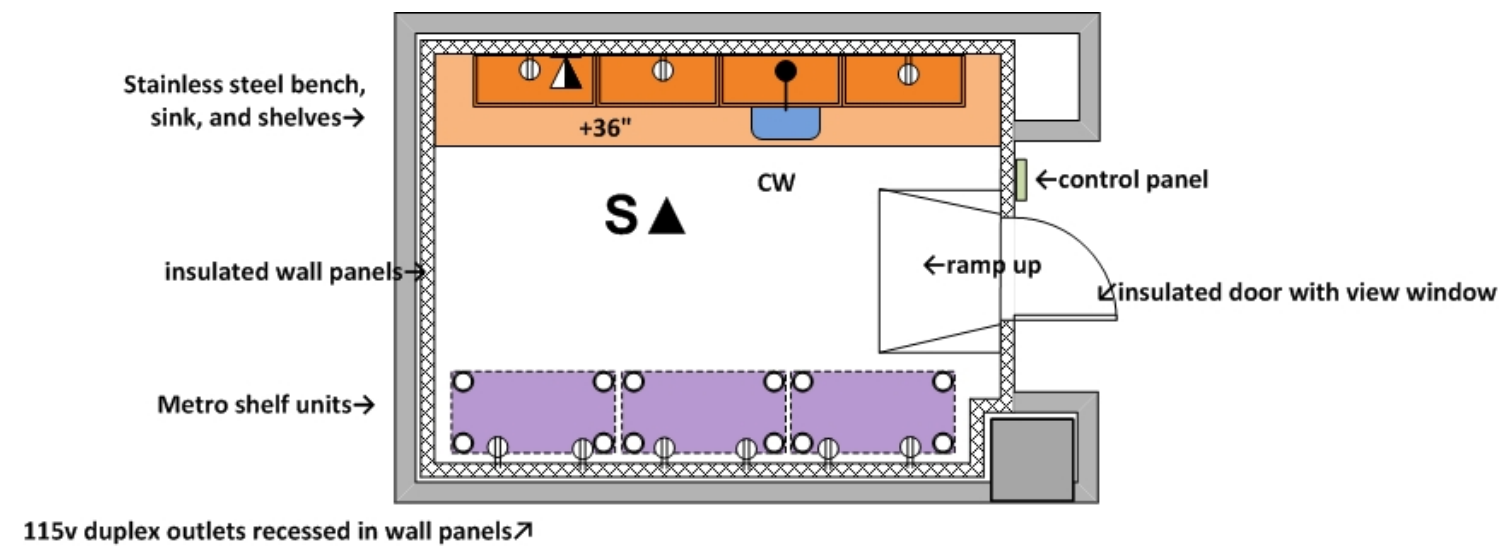
Liter Storage Tank

an electrical plug is required

## Glassware Washer Cut Sheet Continued Pure water system for washer

# Cold Room

Shown (1) Room at level 1  
Similar (1) Room at level 3



## ARCHITECTURAL

- Occupancy: B
- Floor: 2" insulated panel with diamond tread finish
- Walls: insulated panels with epoxy powder coat finish
- Ceiling: 9' insulated panel with eggcrate plenum
- Door: 3<sup>0</sup>x7<sup>0</sup> with view window
- Sound Attenuation: NC 50 or less
- Security: card reader access

## STRUCTURAL

- Vibration attenuation: 4,000 microinches per second or less

## MECHANICAL

- Temperature: 4 deg. C
- Humidity: 30-40% relative (dehumidification)
- 50 cfm exhaust
- water cooled condenser located at roof

## ELECTRICAL

- 115v20a duplex outlets at 24" on center
- Standby power
- Hardwire and wireless data
- Lighting: surface fluorescent at 60 f.c.

## PLUMBING

- Industrial cold water at sink
- connect cold water condensate to drain

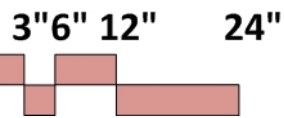
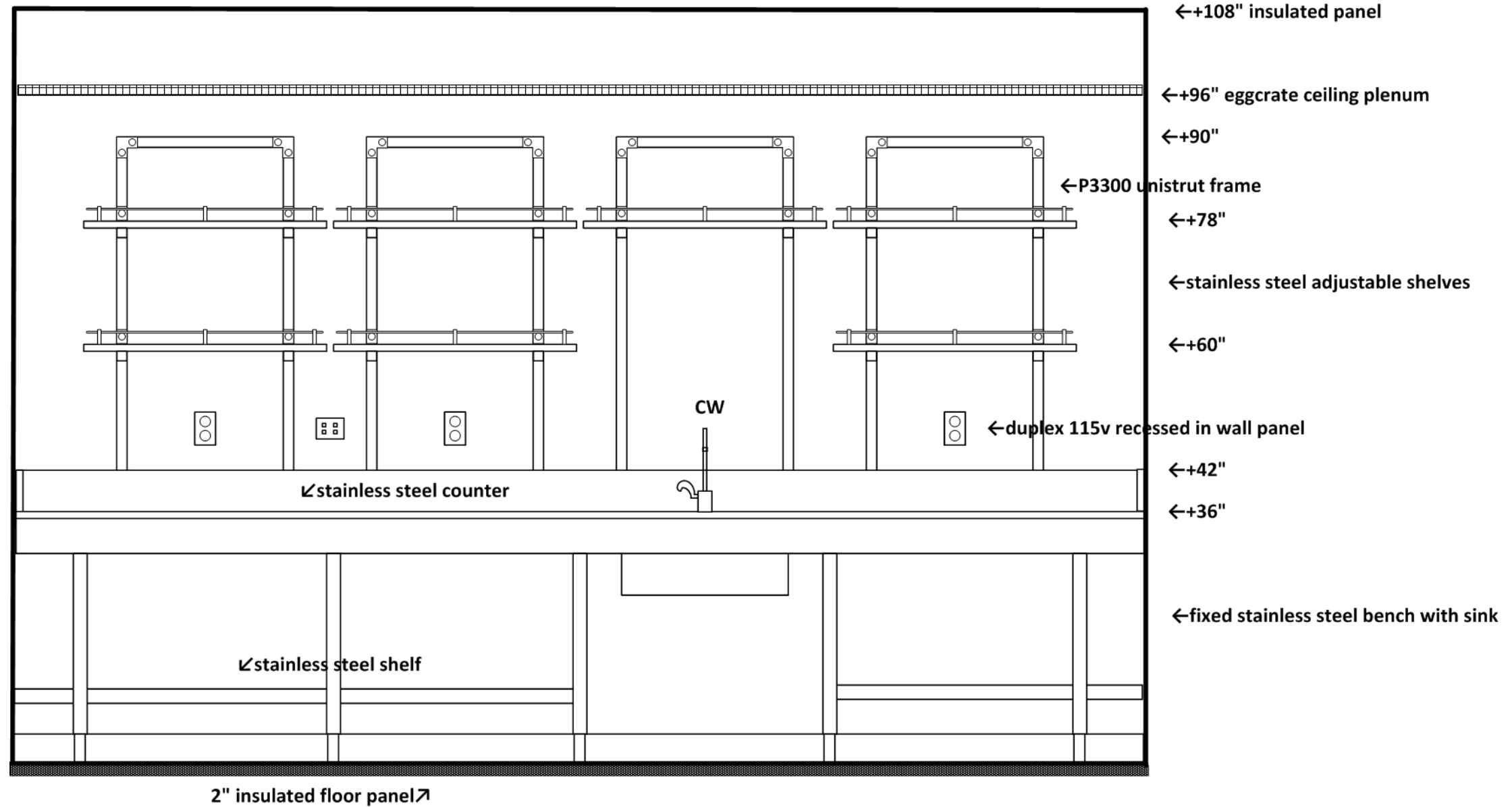
## CONTRACTOR FURNISHED EQUIPMENT

- stainless steel bench, shelves, sink
- mobile shelf units

## UCSB FURNISHED EQUIPMENT

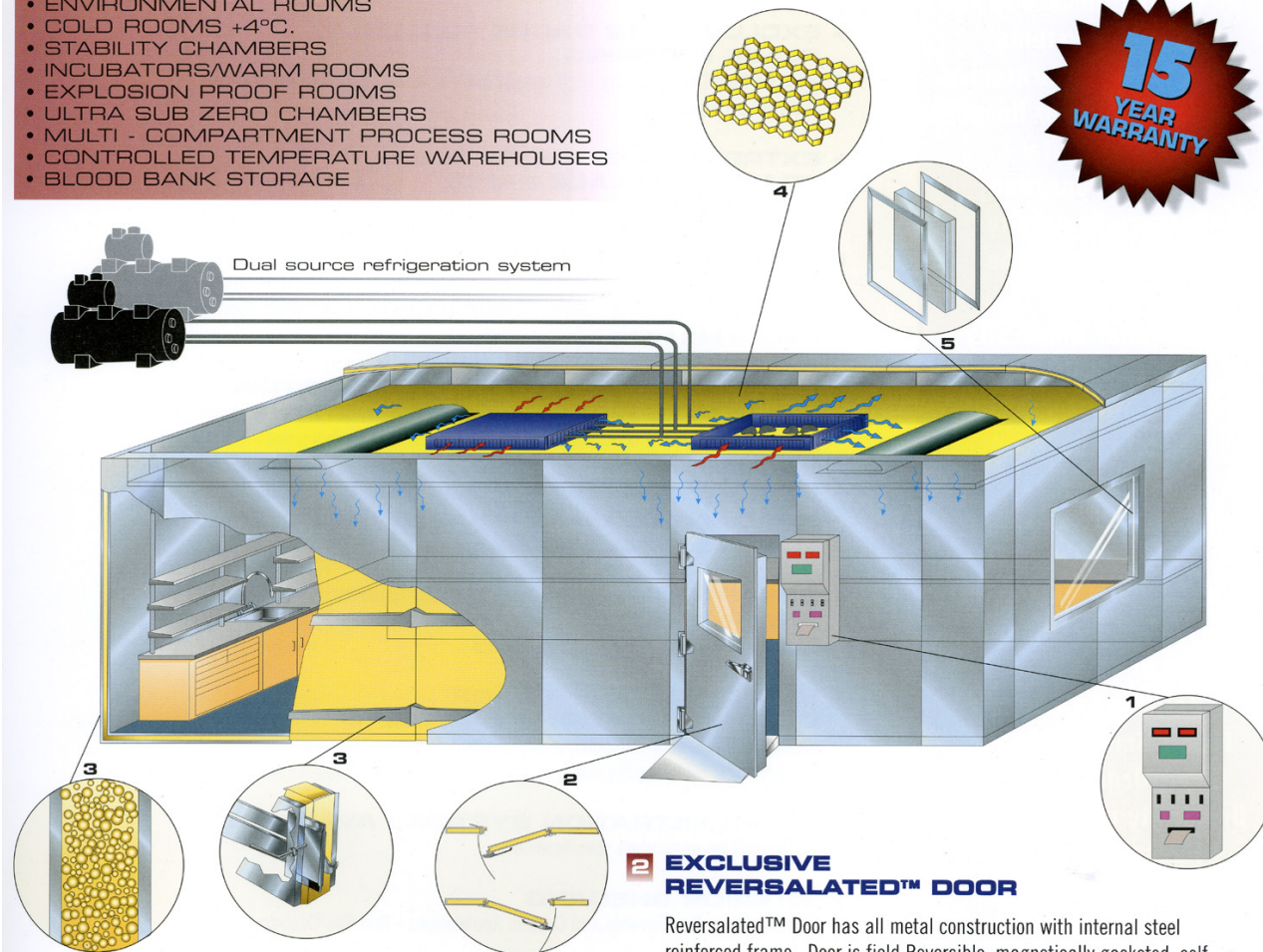
- scientific instruments

# Elevation S



## INSULATED-STRUCTURES™ CONTROLLED TEMPERATURE ROOMS

- ENVIRONMENTAL ROOMS
- COLD ROOMS +4°C.
- STABILITY CHAMBERS
- INCUBATORS/WARM ROOMS
- EXPLOSION PROOF ROOMS
- ULTRA SUB ZERO CHAMBERS
- MULTI - COMPARTMENT PROCESS ROOMS
- CONTROLLED TEMPERATURE WAREHOUSES
- BLOOD BANK STORAGE



### FEATURES INCLUDE:

#### 1 INSUL - LINE CONTROL PANEL (Slim Line Design)

Can be mounted remotely on an adjacent wall, contains user friendly controls in a thin unobtrusive panel that provides:

- Digital temperature and/or humidity readouts
- Full range temperature and/or humidity controllers\*\*
- Integral alarm for early warning with remote capability and active indicators
- Refrigeration Mechanical HVAC Monitors
- Chart Recorders
- Vent Circuitry

#### 2 EXCLUSIVE REVERSALATED™ DOOR

Reversalated™ Door has all metal construction with internal steel reinforced frame. Door is field Reversible, magnetically gasketed, self closing, infitting - flush appearance, with interior release system.

#### 3 REINFORCED INSULATED WALL SYSTEM

Allows for wall mounted cantilevered shelving or equipment racks. All walls have continuous 2" steel internal straps interlocked through the cam locking systems. Insulated-Structures™ Rooms are consequently extremely tight - seams are double gasketed - excellent for high/low humidity requirements. Odd size and shape rooms available for difficult jobsites - corner/beam cutouts - multi height ceilings available.

#### 4 ULTRA UNIFORMITY AIR DISTRIBUTION CEILING

Straight line laminar flow induced air pattern - excellent temperature uniformity at product contact zones. Provides sound attenuation and softens illumination, eliminating glare; permitting reduced energy consumption.

### COMPLETED PROJECTS

Columbia University  
Merck & Company  
Cornell University  
Imclone Systems  
North Shore Laboratories  
St. Lukes/Roosevelt Hospital  
NYU Hospital  
Pfizer Corporation  
Rutgers University  
Wyeth Ayerst Labs  
BioMatrix  
Rockefeller University  
Schering Plough  
Lipton Co.  
Minolta Advanced Technologies  
Becton Dickinson  
Pall Rai  
University of Rochester  
Bristol Myers Squibb  
Museum of American Indian  
Hoffman La Roche  
Fisher Scientific/Acros Organics  
University of Connecticut  
Hoescht Celanese  
Bayer - Agfa Division  
Fujifilm  
B.A.S.F.  
N.Y.C. Dept. of Health  
Hersheys  
Aetna US Healthcare  
General Foods



1 (800) 88 - PANEL  
1 (800) 887 - 2635

### MORE FEATURES:

- ▶ **VIEW WINDOWS**  
Insulated, multi - pane, thermal view windows available with anti-sweat heaters, and heat reflective glass coating. Can be configured into a glass door, with access to Product on shelving.
- ▶ **EXCLUSIVE 12 GAUGE FOAMED IN PLACE FLOORING**  
Made for high Load capacity, High density foam with the 12 gauge surface holds 1500 lbs per square foot.
- ▶ **EXTREME DEEP THERMAL 6" FOAMED-IN-PLACE PANEL**  
Used for Indoor/Outdoor Ultra Sub Zero Chambers.
- ▶ **SPECIALTY FLOORING**  
This can include a custom 2" thick floor used for reduced pitch at ramps, and complies with handicap entry/egress statutes. Overlay Seamless non - skid sheet flooring covered up all sides 4 inches.
- ▶ **REFRIGERATION AND HEATING SYSTEMS**  
Designed for your specific requirements - factoring refrigeration line runs, lighting, potential ventilation, process loads, and expected occupancy; determines the BTU requirements and Horse Power recommendations. Non - Corrosive evaporator coil surfaces. Refrigeration component location indoor/outdoor, top mount or remote located, air cooled/water cooled. Dual source emergency refrigeration with on demand controls insure constant temperature.
- ▶ **SCIENTIFIC CABINETS, LAB BENCHES AND INTEGRAL SINKS**  
Custom applications made in Stainless Steel.
- ▶ **HUMIDIFICATION AND/OR DEHUMIDIFICATION CONTROL**  
Necessary mechanical components are chosen based on clients Relative Humidity requirements, factoring the range of temperature set points chosen. Wide range available.
- ▶ **HEPPA FILTRATION SYSTEMS AVAILABLE**  
As required for particulate specification.
- ▶ **INTERIOR SHELVING**  
Free Standing, Cantilevered and Custom Applications - Non Slip Coating.
- ▶ **INSTALLATION**  
Professional installation by trained personnel\*\*\*. On site operational demonstration and performance testing.

\* 15-Year Manufacturers Panel Warranty - See actual warranty for details

\*\* User Remote Capability PC Software Available

\*\*\* Turnkey Installation Available, including electrical, refrigeration, plumbing and professional engineering as may be required.

80 RED SCHOOLHOUSE RD. SUITE 101 • CHESTNUT RIDGE • NY 10977-7052  
e-mail east@insulated-structures.com • web site www.insulated-structures.com

PRODUCED & DESIGNED BY MAGE SOURCE PRODUCTIONS, INC. 718-631-2780

10.01A

Job \_\_\_\_\_

## SUPER ADJUSTABLE 2<sup>nd</sup> SUPER ERECTA SHELF<sup>®</sup> WIRE SHELVING



### Dimensions

#### Super Adjustable 2<sup>nd</sup> Super Erecta Wire Shelving

Cat. No. Super Erecta Brite	Cat. No. Chrome	Cat. No. Metroseal 3	Cat. No. Stainless	Cat. No. Black	Shelf Width/Length (in.)	Shelf Width/Length (mm)	Approx. Pkd. Wt. (lbs.)	Approx. Pkd. Wt. (kg)
A1424BR	A1424NC	A1424NK3	A1424NS	A1424NBL	14x24	355x610	6	2.7
A1430BR	A1430NC	A1430NK3	A1430NS	A1430NBL	14x30	355x760	7	3.2
A1436BR	A1436NC	A1436NK3	A1436NS	A1436NBL	14x36	355x914	8	3.6
A1442BR	A1442NC	A1442NK3	A1442NS	A1442NBL	14x42	355x1066	9 1/2	4.3
A1448BR	A1448NC	A1448NK3	A1448NS	A1448NBL	14x48	355x1219	10 1/2	4.7
A1460BR	A1460NC	A1460NK3	A1460NS	A1460NBL	14x60	355x1524	14	6.3
A1472BR	A1472NC	A1472NK3	A1472NS	A1472NBL	14x72	355x1825	17	7.7
A1824BR	A1824NC	A1824NK3	A1824NS	A1824NBL	18x24	457x610	7	3.2
A1830BR	A1830NC	A1830NK3	A1830NS	A1830NBL	18x30	457x760	8	3.6
A1836BR	A1836NC	A1836NK3	A1836NS	A1836NBL	18x36	457x914	9 1/2	4.3
A1842BR	A1842NC	A1842NK3	A1842NS	A1842NBL	18x42	457x1066	11	5.0
A1848BR	A1848NC	A1848NK3	A1848NS	A1848NBL	18x48	457x1219	12	5.4
A1854BR	A1854NC	A1854NK3	A1854NS	A1854NBL	18x54	457x1370	14 1/2	6.6
A1860BR	A1860NC	A1860NK3	A1860NS	A1860NBL	18x60	457x1524	17	7.7
A1872BR	A1872NC	A1872NK3	A1872NS	A1872NBL	18x72	457x1825	20	9.1
A2124BR	A2124NC	A2124NK3	A2124NS	A2124NBL	21x24	530x610	8	3.6
A2130BR	A2130NC	A2130NK3	A2130NS	A2130NBL	21x30	530x760	9	4.1
A2136BR	A2136NC	A2136NK3	A2136NS	A2136NBL	21x36	530x914	11	5.0
A2142BR	A2142NC	A2142NK3	A2142NS	A2142NBL	21x42	530x1066	12	5.4
A2148BR	A2148NC	A2148NK3	A2148NS	A2148NBL	21x48	530x1219	14	6.4
A2154BR	A2154NC	A2154NK3	A2154NS	A2154NBL	21x54	530x1370	16	7.3
A2160BR	A2160NC	A2160NK3	A2160NS	A2160NBL	21x60	530x1524	18	8.2
A2172BR	A2172NC	A2172NK3	A2172NS	A2172NBL	21x72	530x1825	24	10.9
A2424BR	A2424NC	A2424NK3	A2424NS	A2424NBL	24x24	610x610	9	4.1
A2430BR	A2430NC	A2430NK3	A2430NS	A2430NBL	24x30	610x760	11	5.0
A2436BR	A2436NC	A2436NK3	A2436NS	A2436NBL	24x36	610x914	13	5.9
A2442BR	A2442NC	A2442NK3	A2442NS	A2442NBL	24x42	610x1066	15	6.8
A2448BR	A2448NC	A2448NK3	A2448NS	A2448NBL	24x48	610x1219	16	7.3
A2454BR	A2454NC	A2454NK3	A2454NS	A2454NBL	24x54	610x1370	18	8.2
A2460BR	A2460NC	A2460NK3	A2460NS	A2460NBL	24x60	610x1524	21	9.5
A2472BR	A2472NC	A2472NK3	A2472NS	A2472NBL	24x72	610x1825	26	11.8
A3036NC	A3036NK3	A3036NS			30x36	760x914	15	6.8
A3048NC	A3048NK3	A3048NS			30x48	760x1219	21	9.5
A3060NC	A3060NK3	A3060NS			30x60	760x1524	26 1/2	11.8
A3072NC	A3072NK3	A3072NS			30x72	760x1829	31	14.0
A3636NC	A3636NK3	A3636NS			36x36	910x914	18	8.2
A3648NC	A3648NK3	A3648NS			36x48	910x1219	23	10.4
A3660NC	A3660NK3	A3660NS			36x60	910x1524	29	13.1
A3672NC	A3672NK3	A3672NS			36x72	910x1829	34 1/2	15.4

NOTE: MICROBAN® protects the Metroseal 3 coating from bacteria, mold, mildew and fungi that cause odors, stains and product degradation. For Metroseal 3 shelving information see sheet #10.10A.



#### Replacement Parts

Each kit includes components for one original Super Adjustable or Super Adjustable 2 shelf, (4) wedges, (4) sleeves, (4) shelf releases. Cat. No. SAKITA2

#### SiteSelect™ Posts

STATIONARY					MOBILE†					Approx. Pkd. Wt. (lbs.) (kg)			
Height* (in.)	Cat. No. Plated	Cat. No. Metroseal 3	Cat. No. Stainless	Cat. No. Black	Height* (in.)	Cat. No. Plated	Cat. No. Metroseal 3	Cat. No. Stainless	Cat. No. Black				
7 1/2	191	7P		7PBL						1/2	0.3		
14 1/2	370	13P	13PK3	13PS	13PBL						1	0.5	
27 1/2	700	27P		27PS	27PBL	27 1/2	699	27UP		27UPS	1 1/4	0.75	
34 1/2	875	33P	33PK3	33PS	33PBL	33 1/2	861	33UP	33UPK3	33UPS	33UPBL	2	0.9
54 7/16	1385	54P	54PK3	54PS	54PBL	54	1370	54UP	54UPK3	54UPS	54UPBL	3	1.4
62 7/16	1590	63P	63PK3	63PS	63PBL	62	1575	63UP	63UPK3	63UPS	63UPBL	3 1/2	1.6
						70	1778		70UPK3			3 3/4	1.7
74 7/8	1895	74P	74PK3	74PS	74PBL	74	1880	74UP	74UPK3	74UPS	74UPBL	4	1.8
86 7/8	2200	86P	86PK3	86PS	86PBL	86	2185	86UP	86UPK3	86UPS	86UPBL	4.5	2.0
96 7/8	2454	**96P										1/2	2.5

\*Height includes leveling bolt and cap.  
 \*\*96P should not be used in units less than 24" (610mm) deep. Consult Metro Engineering for alternate recommendations.  
 †Post lengths to be specified as cut to a round number, i.e. 74P cut to 69". This will result in an overall post height with adjustment of 69 1/2 to 69 1/8".  
 ‡Mobile posts come without leveling bolt assembly to accommodate stem casters.

Important: When ordering by components remember that for maximum stability, units should be kept as wide and low as possible.

All Metro Catalog Sheets are available on our Web Site: [www.metro.com](http://www.metro.com)



InterMetro Industries Corporation  
 North Washington Street, Wilkes-Barre, PA 18705  
 Phone: 570-825-2741 • Fax: 570-825-2852  
 For Product Information Call: 1-800-433-2232

L02-006A  
 Printed in U.S.A. Rev. 1/06  
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Item # \_\_\_\_\_

Job \_\_\_\_\_

## SUPER ADJUSTABLE 2<sup>nd</sup> SUPER ERECTA SHELF<sup>®</sup> WIRE SHELVING

Super Adjustable 2<sup>nd</sup> Super Erecta Wire Shelving is the most advanced and innovative wire storage system available. The unique Corner Release System, which allows shelves to be adjusted quickly and easily without tools, has been re-engineered to provide increased rigidity. And Super Adjustable 2<sup>nd</sup> Shelving works in conjunction with the entire Super Erecta System of shelves and accessories.

- **Maximum Space Utilization:** The Corner Release System encourages repositioning of shelves during initial assembly to reclaim wasted vertical space. In some cases, reclaimed vertical space will allow an extra shelving tier to be added to the storage unit resulting in a 25% increase in storage capacity!
- **Easily Assembled:** The unique Corner Release System enables quick and easy repositioning of shelves during the initial set up to accommodate different package or container sizes. "Total Assembly" is complete only after the shelves are properly spaced to maximize storage. SiteSelect™ Posts, with the double-groove visual guide feature, have circular grooves at 1" (25mm) increments and are numbered at 2" (51mm) intervals to easily identify proper shelf locations.
- **Easily Adjustable:** The unique shelf design and SiteSelect™ Posts enable "tool-free", quick adjustment at 1" (25mm) increments along the entire height of the post.
- **Improved Rigidity:** An enhanced Corner Release System has made Super Adjustable 2<sup>nd</sup> the most rigid, easily adjustable shelving system ever.
- **Strong:** Super Adjustable 2<sup>nd</sup> shelves hold as much weight as traditional Super Erecta wire shelving. Stationary units hold a maximum of 2,000 lb. (910 kg). Maximum weight capacity per shelf (48" [1219mm] or shorter = 800 lb. [364kg]; longer than 48" [1219mm] = 600 lb. [273kg]).
- **Choice of Finishes:** Super Adjustable 2<sup>nd</sup> Super Erecta shelving is available in a variety of finishes: Super Erecta Brite and chrome-plated for dry storage; Metroseal 3™ with antimicrobial product protection and stainless steel for corrosive environments; and attractive black epoxy for merchandising applications.



Dry Storage — Chrome or Super Erecta Brite™



All Environments — Metroseal 3™ with Microban® Antimicrobial Product Protection



Mobile Stem Caster Cart



Mobile Dolly Truck

### Super Adjustable 2<sup>nd</sup> Advantage . . .

Easily reposition Super Adjustable 2<sup>nd</sup> shelves during initial assembly to increase storage capacity by as much as 25%.



Corner Release System

\*MICROBAN® and the MICROBAN® symbol are registered trademarks of the Microban Products Company, Huntersville, NC.



InterMetro Industries Corporation  
 North Washington Street  
 Wilkes-Barre, PA 18705  
[www.metro.com](http://www.metro.com)



10.01A

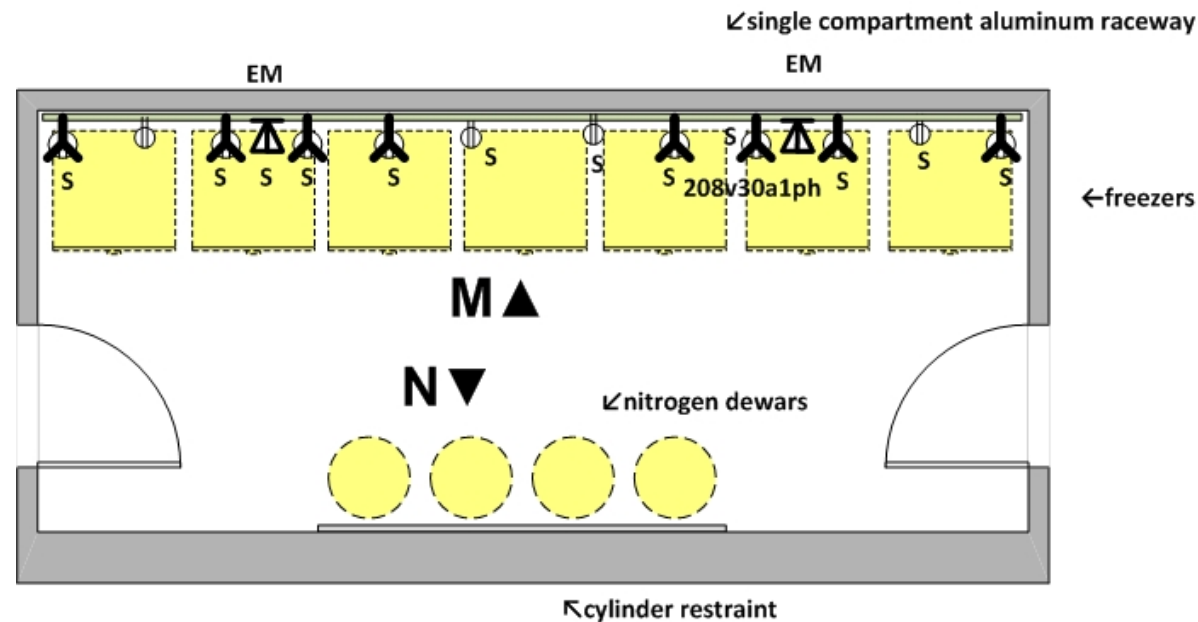
SUPER ADJUSTABLE 2<sup>nd</sup> SUPER ERECTA SHELF<sup>®</sup> Adjustable Wire Shelving

10.01A



# Freezer Room

Shown (1) Room at level 2  
 Similar (1) Room at level 1  
 Similar (1) Room at level 3



## ARCHITECTURAL

- Occupancy: B
- Floor: ground, sealed concrete
- Walls: gypsum board, enamel paint
- Ceiling: open to structure
- Door: 3<sup>6</sup>x8<sup>0</sup> with view window
- Sound Attenuation: NC 50 or less
- Security: card reader access

## STRUCTURAL

- Vibration attenuation: 4,000 microinches per second or less

## MECHANICAL

- Temperature: 72 deg. F
- Humidity: 30-50% relative
- Pressure: negative
- 100% exhaust: 1 cfm/sf
- Heat gain: 75 btuh/sf

## ELECTRICAL

- 208v30a1ph standby
- 115v20a standby
- wireless data
- equipment monitors (EM)
- Lighting: indirect recessed fluorescent at 60 f.c. (stepped)

## PLUMBING

- none

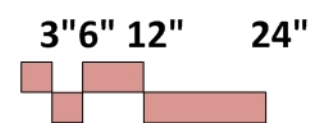
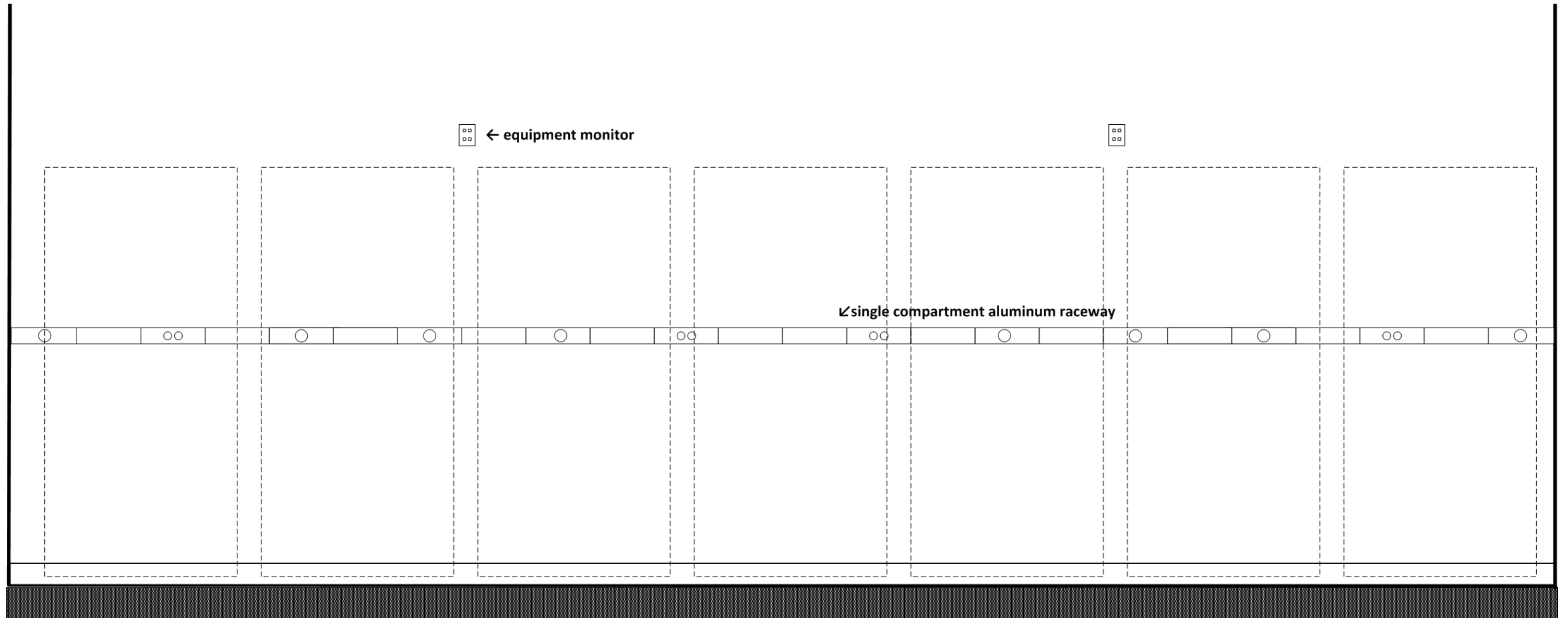
## CONTRACTOR FURNISHED EQUIPMENT

- cylinder restraint

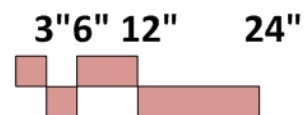
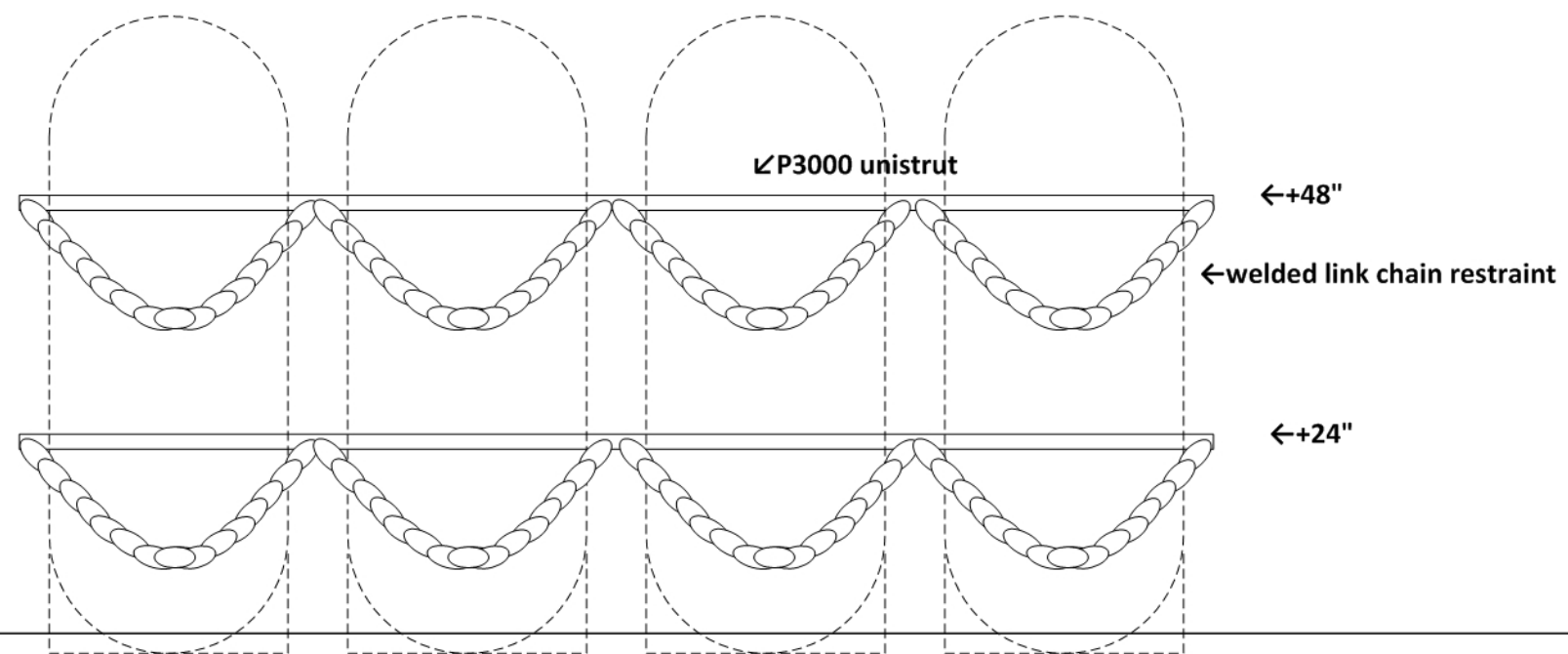
## UCSB FURNISHED EQUIPMENT

- freezers
- nitrogen dewars

# Elevation M

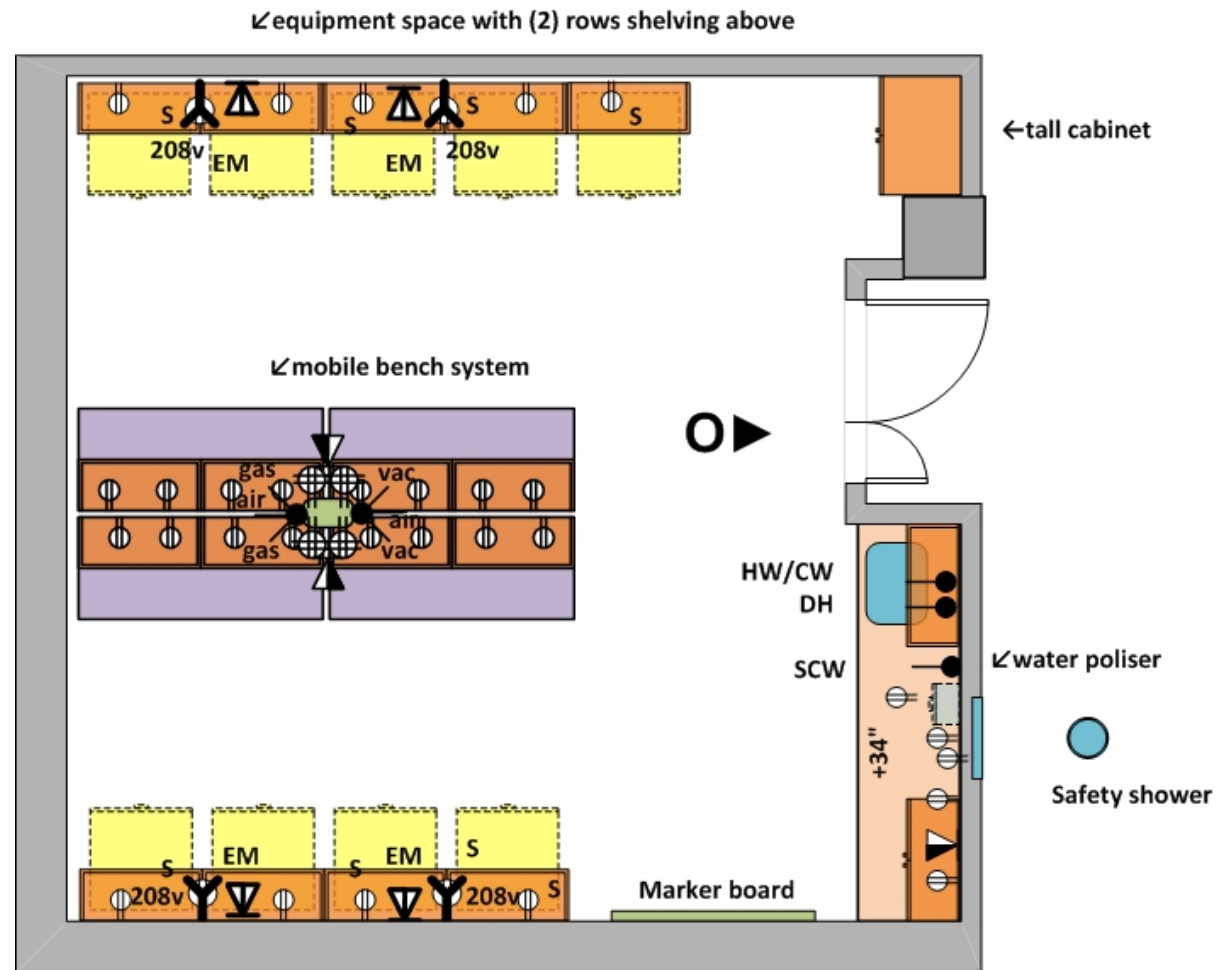


# Elevation N



# Large Procedure Room

Shown (1) Room at level 2  
 Similar (1) Room at level 1  
 Similar (1) Room at level 3



## ARCHITECTURAL

- Occupancy: B
- Floor: ground, sealed concrete
- Walls: gypsum board, enamel paint
- Ceiling: 9' acoustic tile
- Door: 3'x8'<sup>0</sup>/1'<sup>6</sup>x8'<sup>0</sup> with view window
- Sound Attenuation: NC 50 or less
- Security: card reader access

## STRUCTURAL

- Vibration attenuation: 4,000 microinches per second or less

## MECHANICAL

- Temperature: 72 deg. F
- Humidity: 30-50% relative
- Pressure: negative
- 100% exhaust: 1 cfm/sf
- Heat gain: 50 btuh/sf

## ELECTRICAL

- 208v30a1ph standby
- 115v20a normal and standby
- wired and wireless data
- Lighting: indirect recessed fluorescent at 60 f.c. (stepped)

## PLUMBING

- industrial hot/cold water at sink
- Softened Cold Water (SCW) at water polisher
- natural gas, vacuum, and air (30 psi) at mobile bench
- domestic cold water at safety shower in corridor
- drain at eyewash and safety shower in corridor

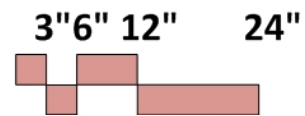
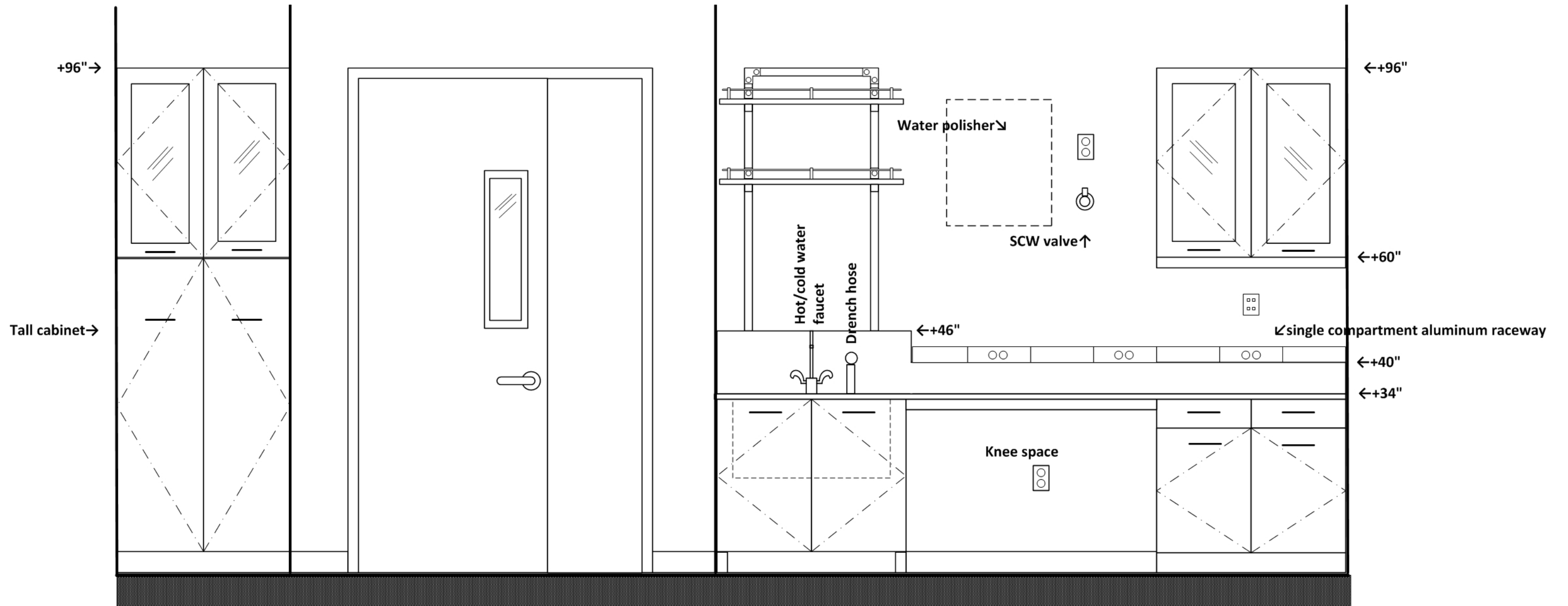
## CONTRACTOR FURNISHED EQUIPMENT

- casework, sink, tops

## UCSB FURNISHED EQUIPMENT

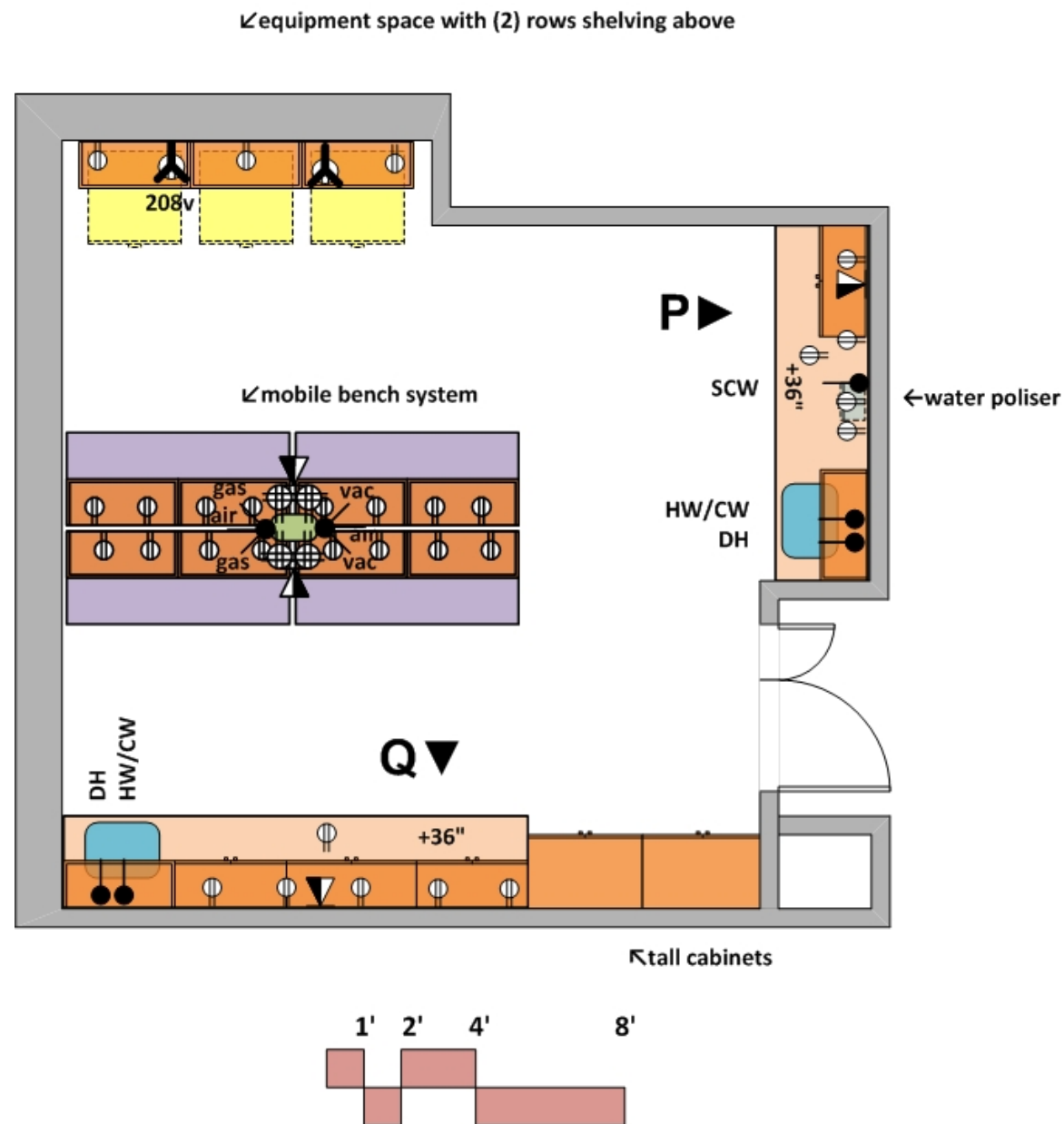
- scientific equipment
- freezers

# Elevation O



# Media Prep

(1) Room at level 2



## ARCHITECTURAL

- Occupancy: B
- Floor: ground, sealed concrete
- Walls: gypsum board, enamel paint
- Ceiling: 9' acoustic tile
- Door: 3'x8'<sup>0</sup>/1'<sup>6</sup>x8'<sup>0</sup> with view window
- Sound Attenuation: NC 50 or less
- Security: card reader access

## STRUCTURAL

- Vibration attenuation: 4,000 microinches per second or less

## MECHANICAL

- Temperature: 72 deg. F
- Humidity: 30-50% relative
- Pressure: negative
- 100% exhaust: 1 cfm/sf
- Heat gain: 50 btuh/sf

## ELECTRICAL

- 208v30a1ph standby
- 115v20a normal and standby
- wired and wireless data
- Lighting: indirect recessed fluorescent at 60 f.c. (stepped)

## PLUMBING

- industrial hot/cold water at sinks
- drench hose at sinks
- Softened Cold Water (SCW) at water polisher
- natural gas, vac, and air (30 psi) at mobile bench
- domestic cold water at safety shower in corridor
- drain at eyewash and safety shower in corridor

## CONTRACTOR FURNISHED EQUIPMENT

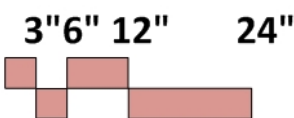
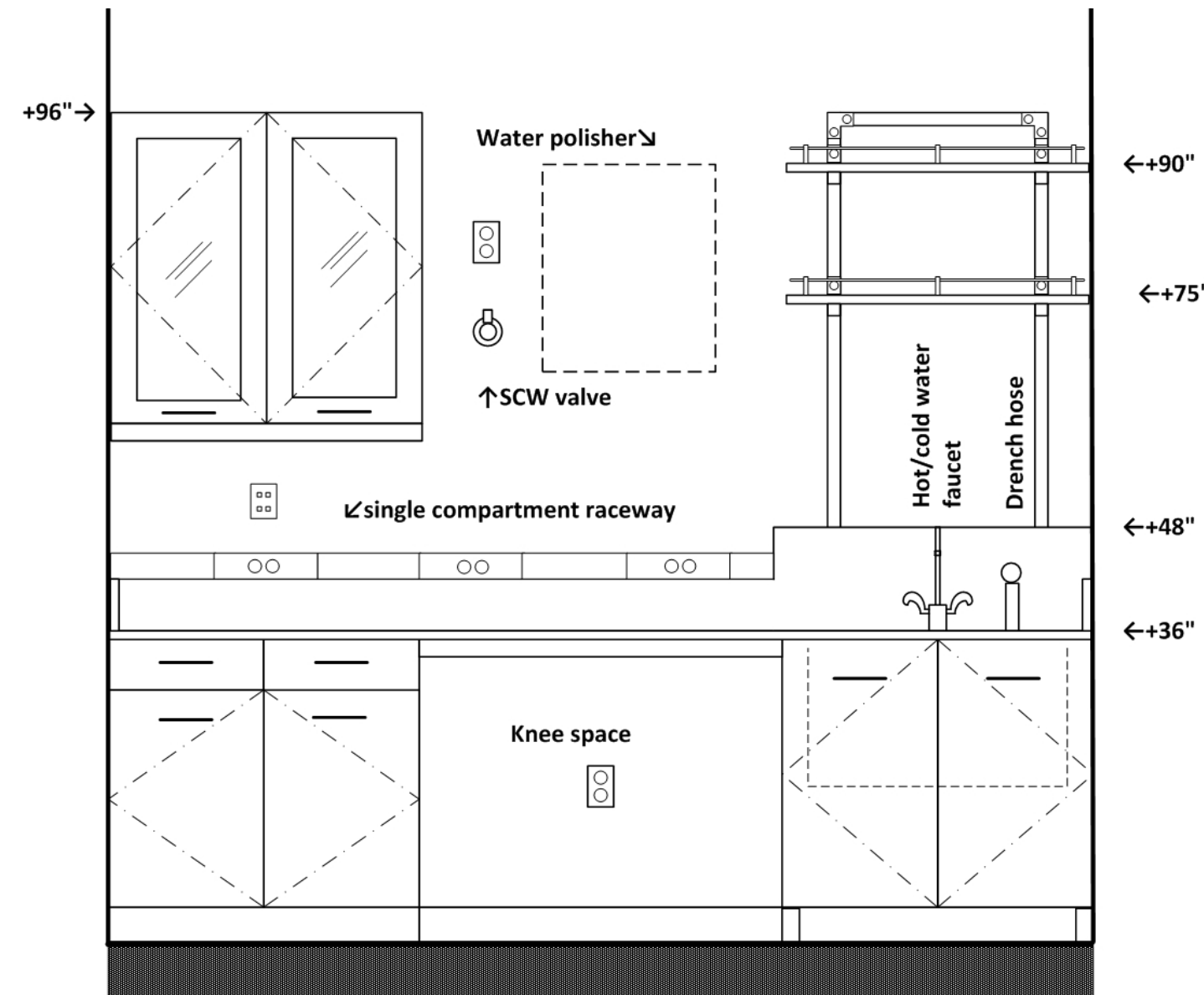
- casework, sink, tops

## UCSB FURNISHED EQUIPMENT

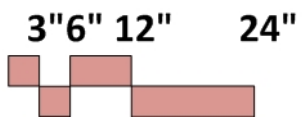
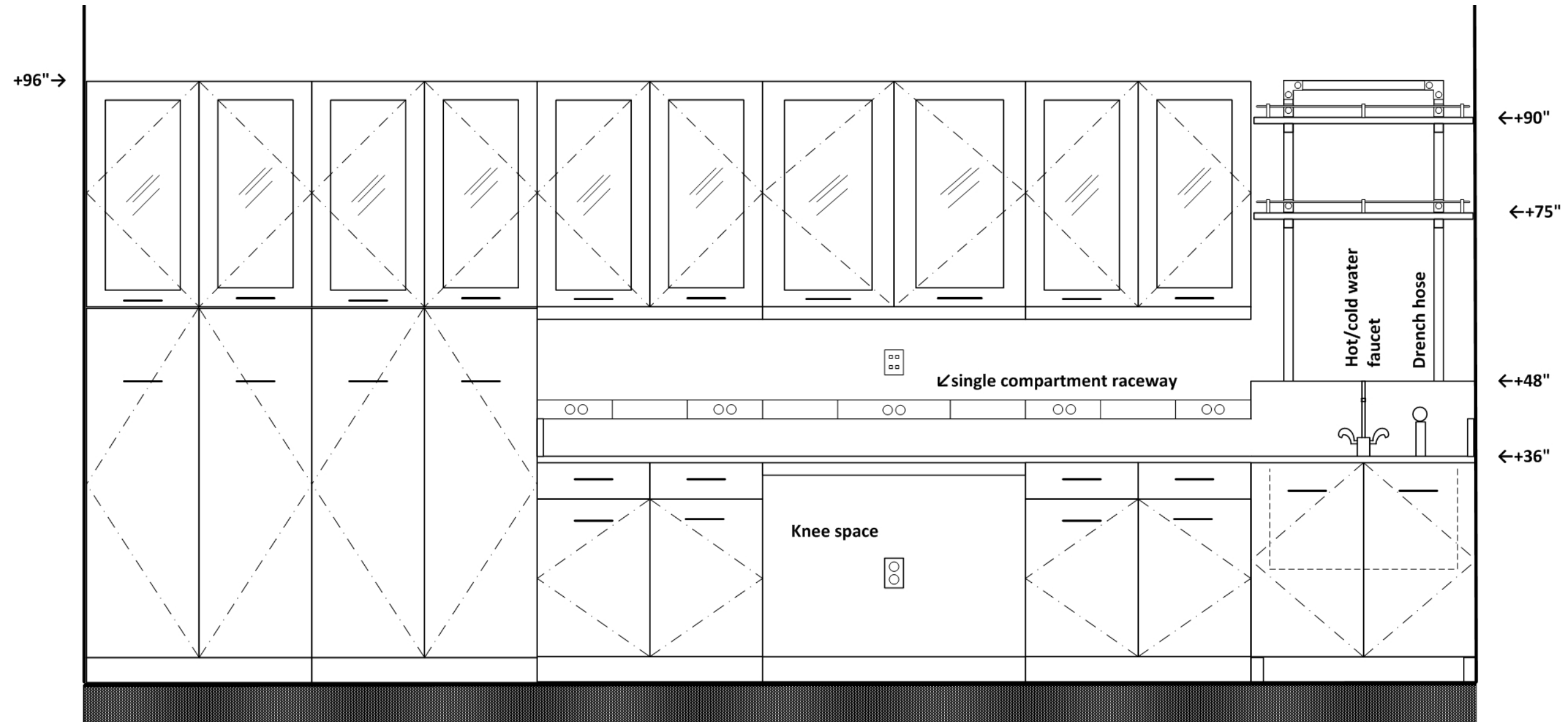
- scientific equipment
- freezers
- water polisher



# Elevation P



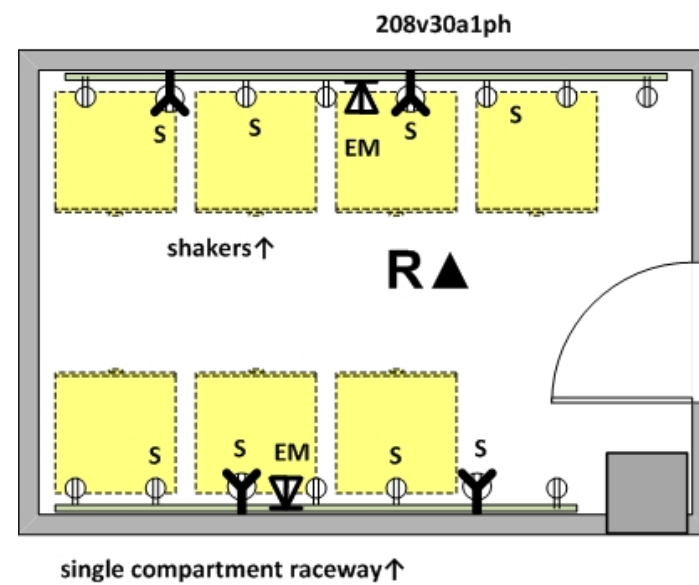
# Elevation Q





# Incubator Room

(1) Room at level 2



## ARCHITECTURAL

- Occupancy: B
- Floor: ground, sealed concrete
- Walls: gypsum board with enamel paint
- Ceiling: 9' gypsum board with enamel paint
- Door: 3<sup>6</sup>x8<sup>0</sup> with view window
- Sound Attenuation: NC 50 or less
- Security: card reader access

## STRUCTURAL

- Vibration attenuation: 4,000 microinches per second or less

## MECHANICAL

- Temperature: 72 deg. F.
- Humidity: 30-40% relative
- 100% exhaust
- Pressure: negative to corridor

## ELECTRICAL

- 115v20a duplex outlets at 24" on center
- Standby power
- Hardwire and wireless data
- Lighting: indirect recessed fluorescent at 60 f.c. (stepped)

## PLUMBING

- none

## CONTRACTOR FURNISHED EQUIPMENT

- none

## UCSB FURNISHED EQUIPMENT

- incubator/shakers

# Elevation R

