

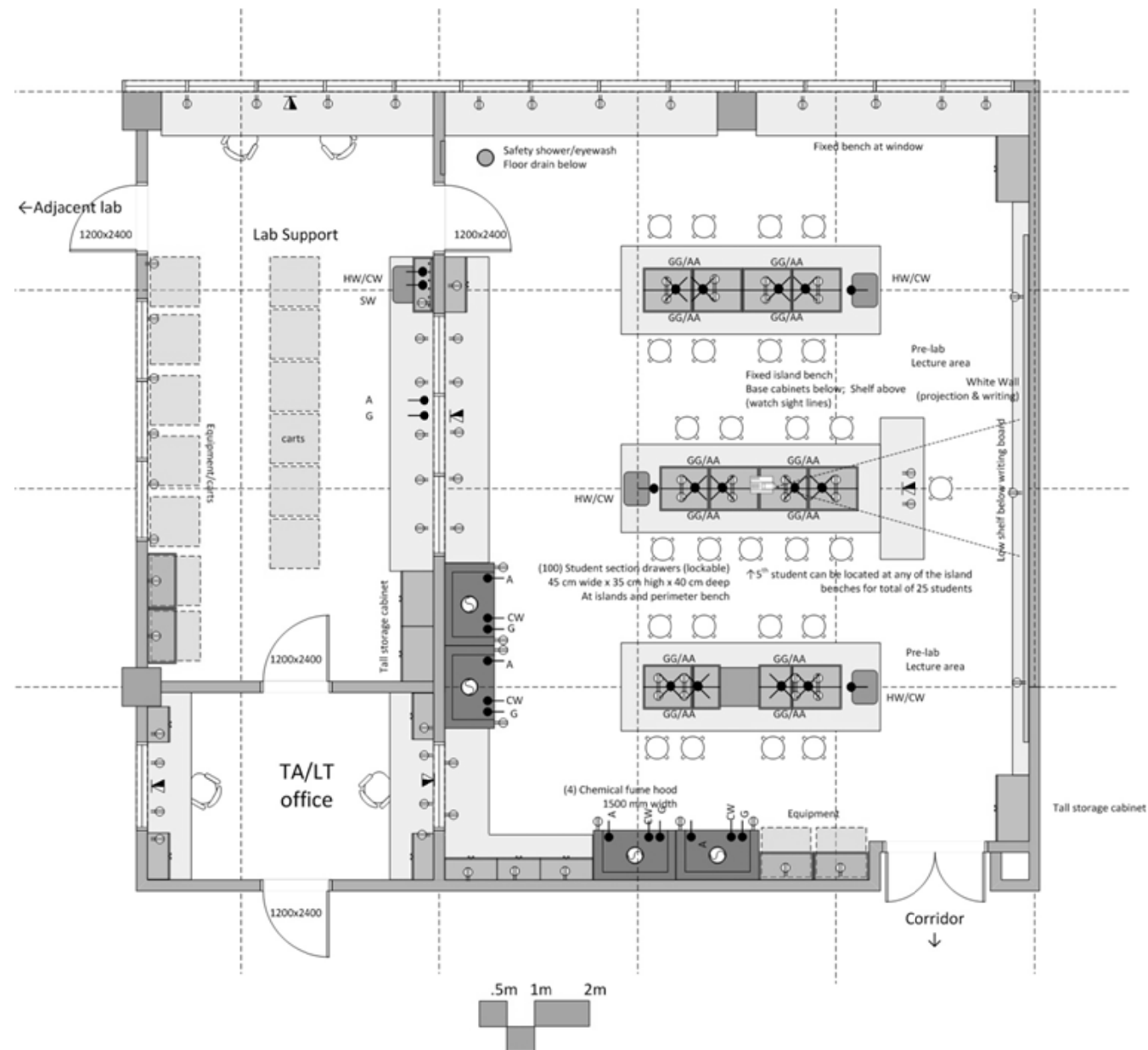
LAB DESIGN SKETCHBOOK

COLLEGE OF PHARMACY BUILDING

Qatar University
 2013 Jan 14

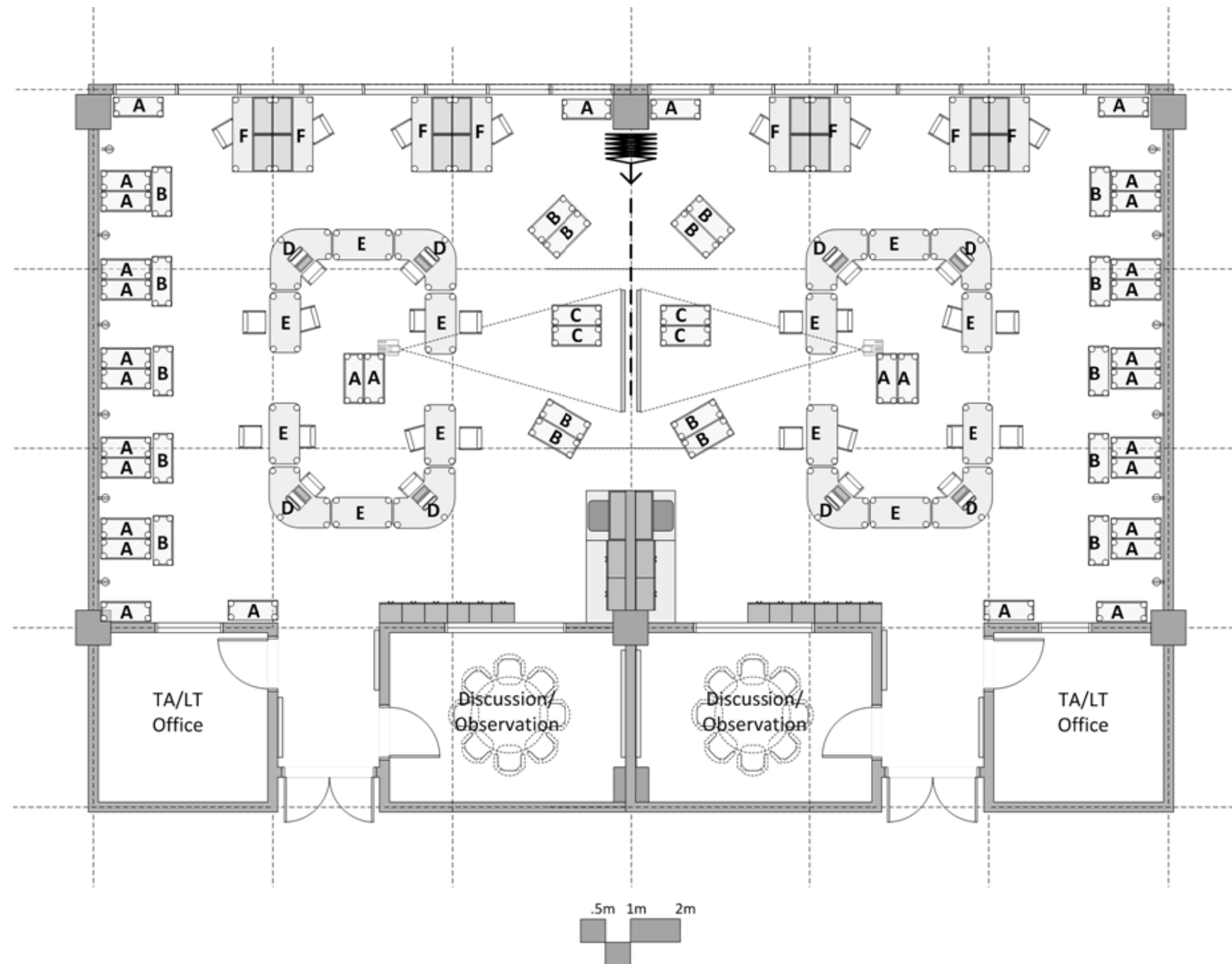


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SUMMARY



This third edition sketchbook includes teaching and research lab design diagrams. All plumbing and electrical outlets are noted. Basic casework configurations are illustrated. The information contained herein is based upon discussions with Dr. Peter Jewesson held 2012 Oct 15/16 in California, USA. This edition also includes revisions per comments received 2012 Nov 11. This edition includes interior lab elevations of casework and other contractor furnished lab equipment.

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SYMBOL LEGEND

PLUMBING & ELECTRICAL SYMBOLS

●— SW Soft water at water polisher

●— HW/CW Hot/Cold water faucet with vacuum breaker

●— G Gas valve single turret

●— A Compressed air valve single turret

●— V Vacuum valve single turret

●— GG Gas valve double turret

●— VV Vacuum valve double turret

GG
 ●—
 GG
 Gas valve quad turret

AA
 ●—
 AA
 Air valve quad turret

⊕ 240v duplex electrical
 Dedicated circuit at equipment space
 Standby power at equipment space

⚡ 415v 3phase 60 amp electrical

◀ Data/phone box

TEACHING LAB TYPE A

COMMUNITY PRACTICE SKILLS SIMULATION TEACHING LAB

GROUND FLOOR
SIMILAR FOR (3) OTHER LABS GROUND FLOOR

ARCHITECTURAL
 Floor: sheet vinyl- color: white
 Walls: cmu with plaster & paint
 Ceiling: acoustic tile at 3m
 Doors with vision panels
 Vibration attenuation: 25 micrometers/second or less
 Sound attenuation: NC 40 or less
 Light attenuation: at exterior windows with exterior sun shade

MECHANICAL
 Temperature: 22 deg. C +/- 1 deg. C
 Recirculated air
 Equipment heat gain: 250btuh/square meter
 Humidity: 30-50% relative
 Pressure: neutral

PLUMBING
 hot/cold water at lab sinks

ELECTRICAL
 240v outlets
 Data junction boxes at floor and perimeter wall
 Wireless data connection
 Lighting: indirect fluorescent at 60 f.c.

CONTRACTOR FURNISHED EQUIPMENT
 Lab casework, sinks, tops, fittings
 mobile benches and casework
 Bulletin boards
 Marker boards

COLLEGE FURNISHED EQUIPMENT
 scientific benchtop equipment
 computers

A (16)

Medical Storage Cabinet
 1000mm wide x 400 mm deep x 2000mm high
 Mobile on heavy duty casters
 Lockable storage cabinet below
 Adjustable open shelves above
 Weighted at bottom to prevent overturning
 Color: White

B (9)

Pharmacy Display Cabinet
 1000mm wide x 400 mm deep x 2000mm high
 Mobile on heavy duty casters
 Open, adjustable shelves
 Weighted at bottom to prevent overturning
 Color: White

C (2)

Document Display Cabinet
 1000mm wide x 400 mm deep x 1200mm high
 Mobile on heavy duty casters
 Open slots at front for display of literature
 Weighted at bottom to prevent overturning
 Color: White

D (4)

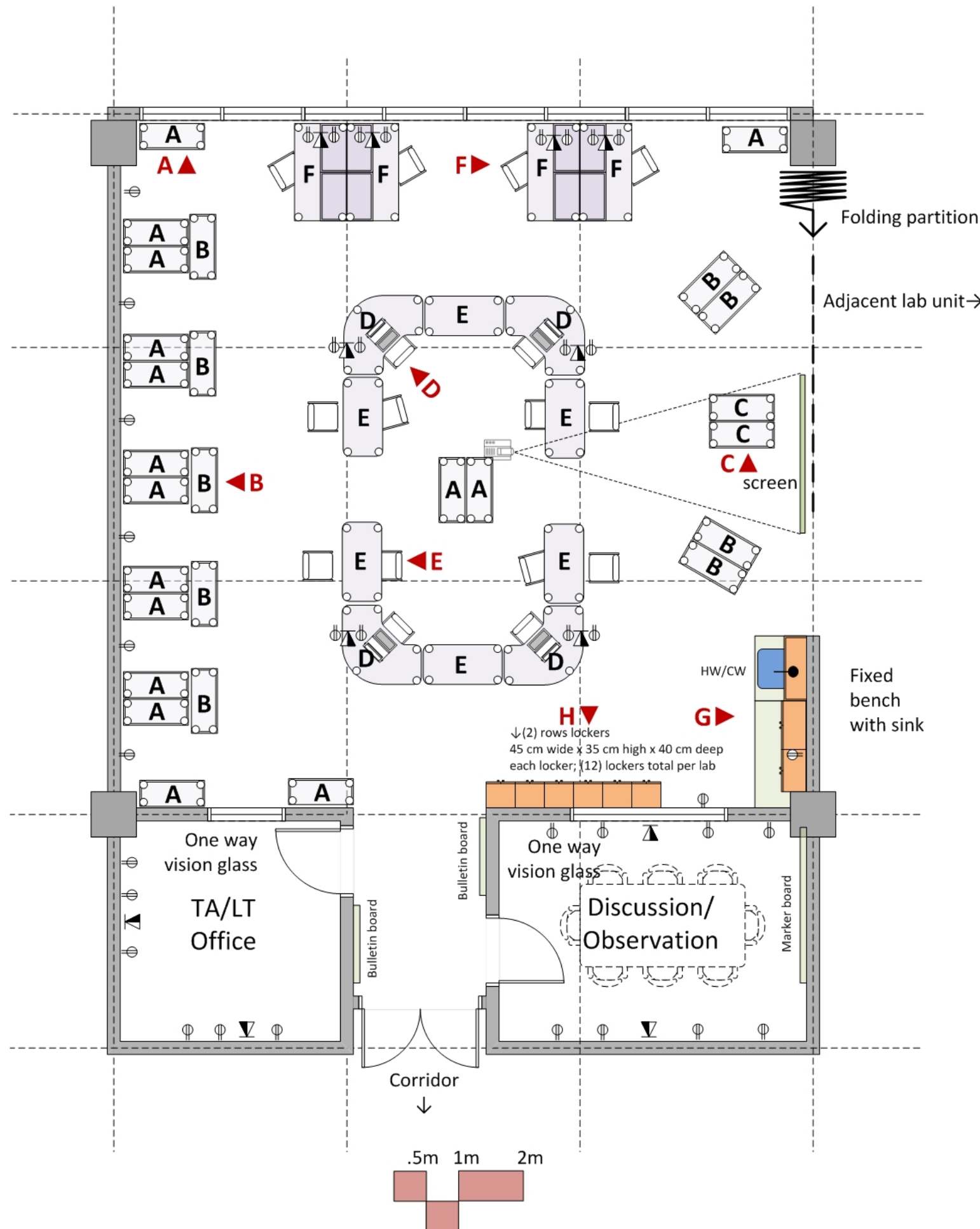
Prescription Counter
 1200mm wide x 1200 mm deep x 1200mm high
 Mobile on heavy duty casters
 Work surface at 750 mm above floor
 Counter above at 1200 mm above floor
 Color: White
 (2) duplex 240v outlets and data at each counter
 located in recessed, flush floor outlets with
 brass cover plates- do not use flip top lids

E (6)

Counseling Desk Unit
 1200mm wide x 750 mm deep x 750mm high
 Mobile on heavy duty casters
 Color: White

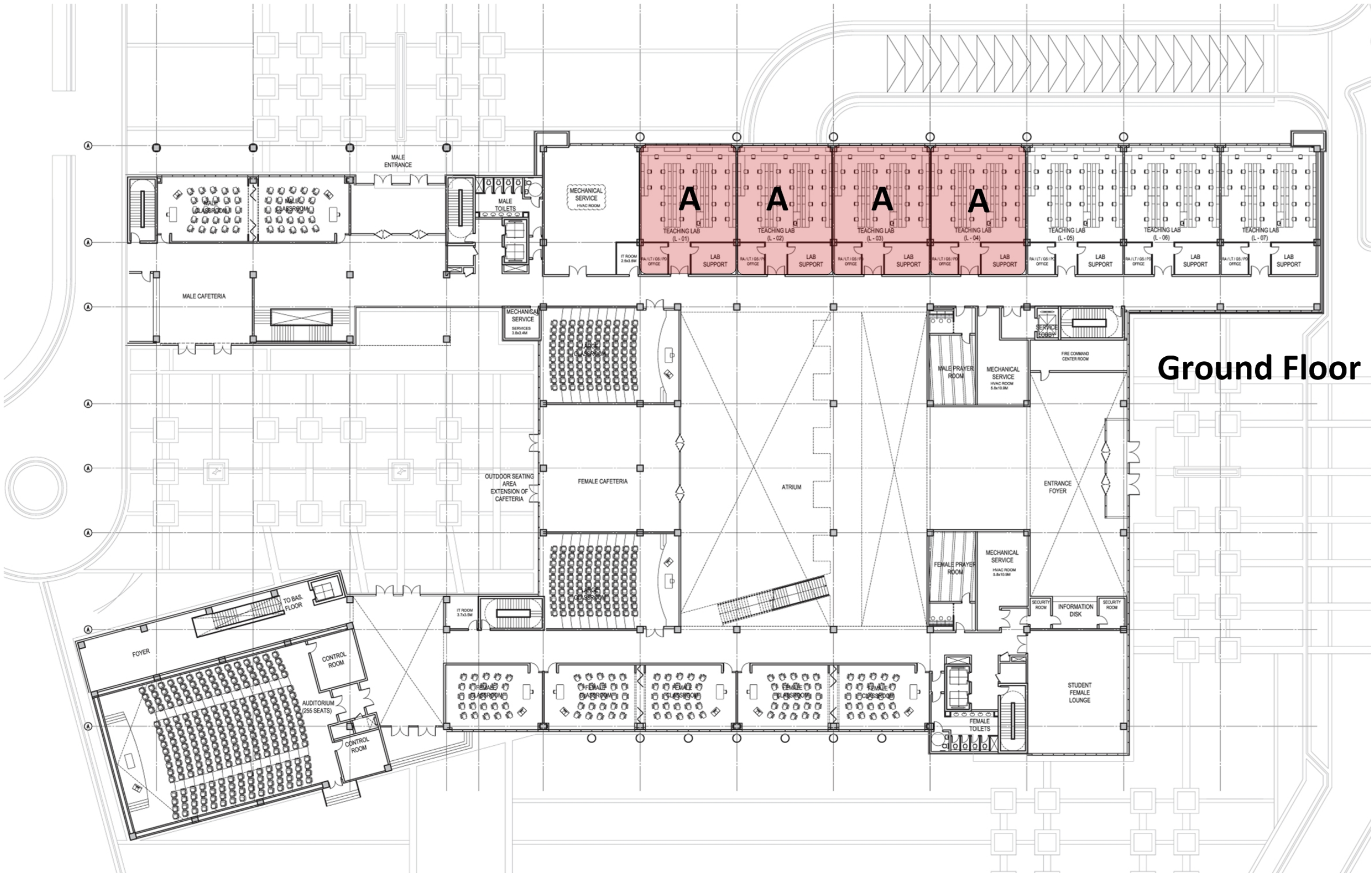
F (4)

Desk Unit
 1500mm wide x 8000 mm deep x 1800mm high
 Mobile on heavy duty casters
 Cabinets above
 File cabinets below
 Color: White
 (2) duplex 240v outlets and data at each unit
 located in wall



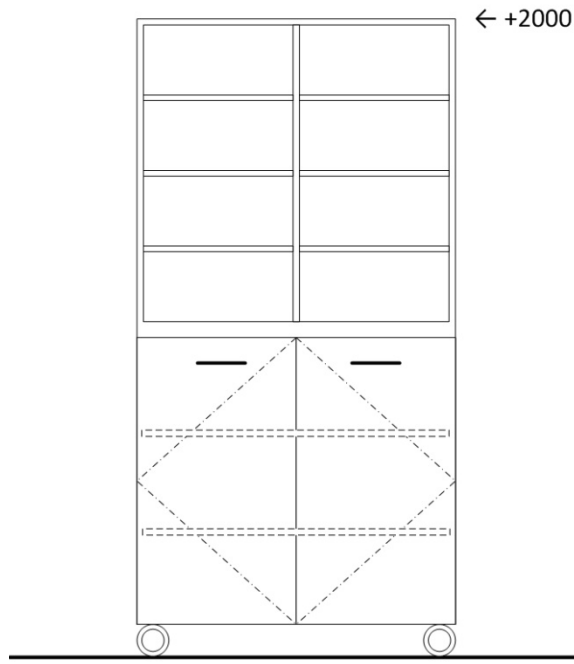
TEACHING LAB TYPE A

KEY PLAN- GROUND FLOOR

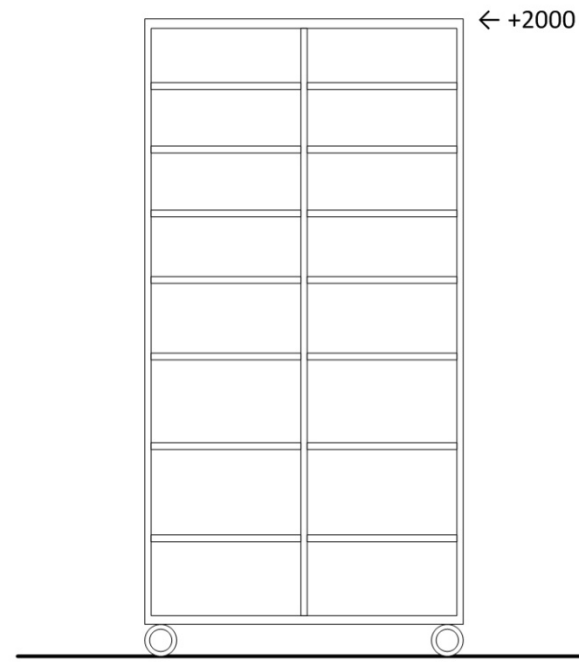


Ground Floor

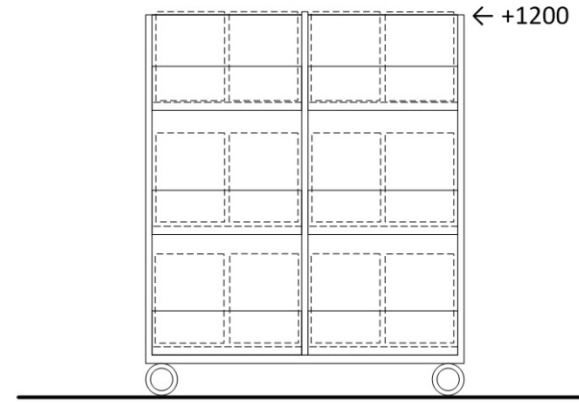
ELEVATIONS A-F PHARMACY CABINETS



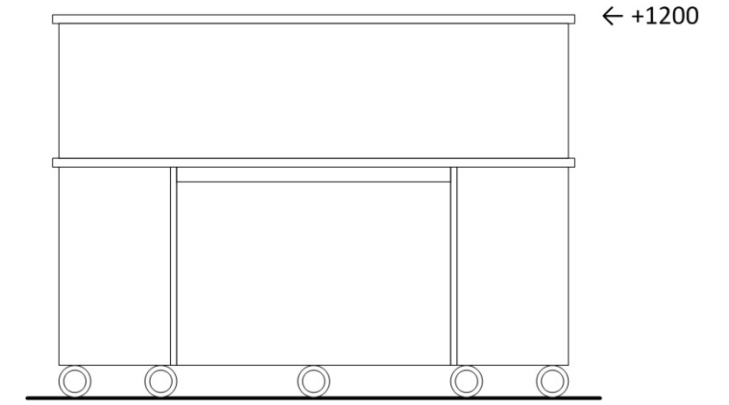
Elevation A



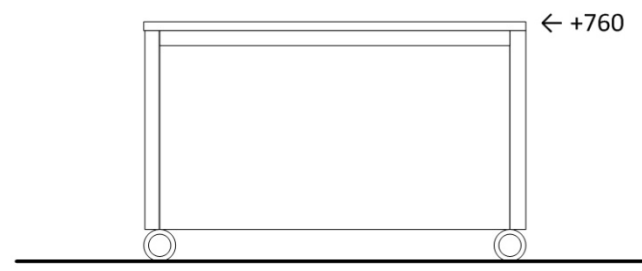
Elevation B



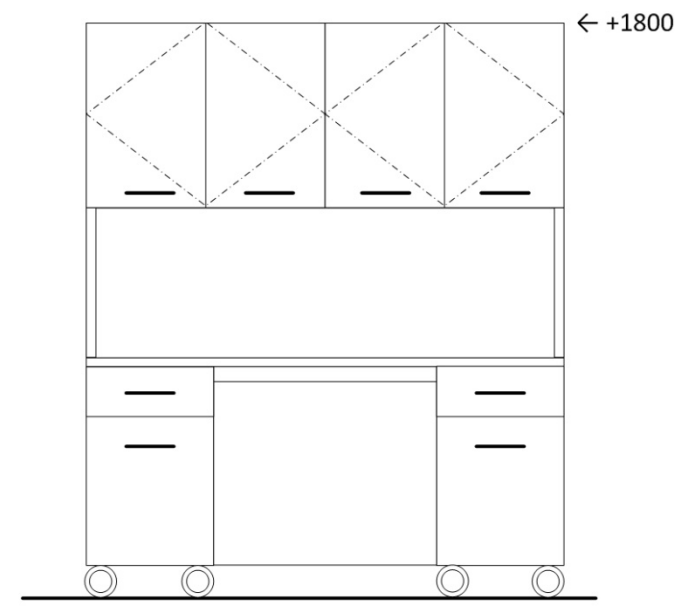
Elevation C



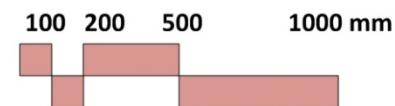
Elevation D



Elevation E

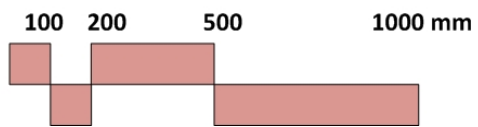
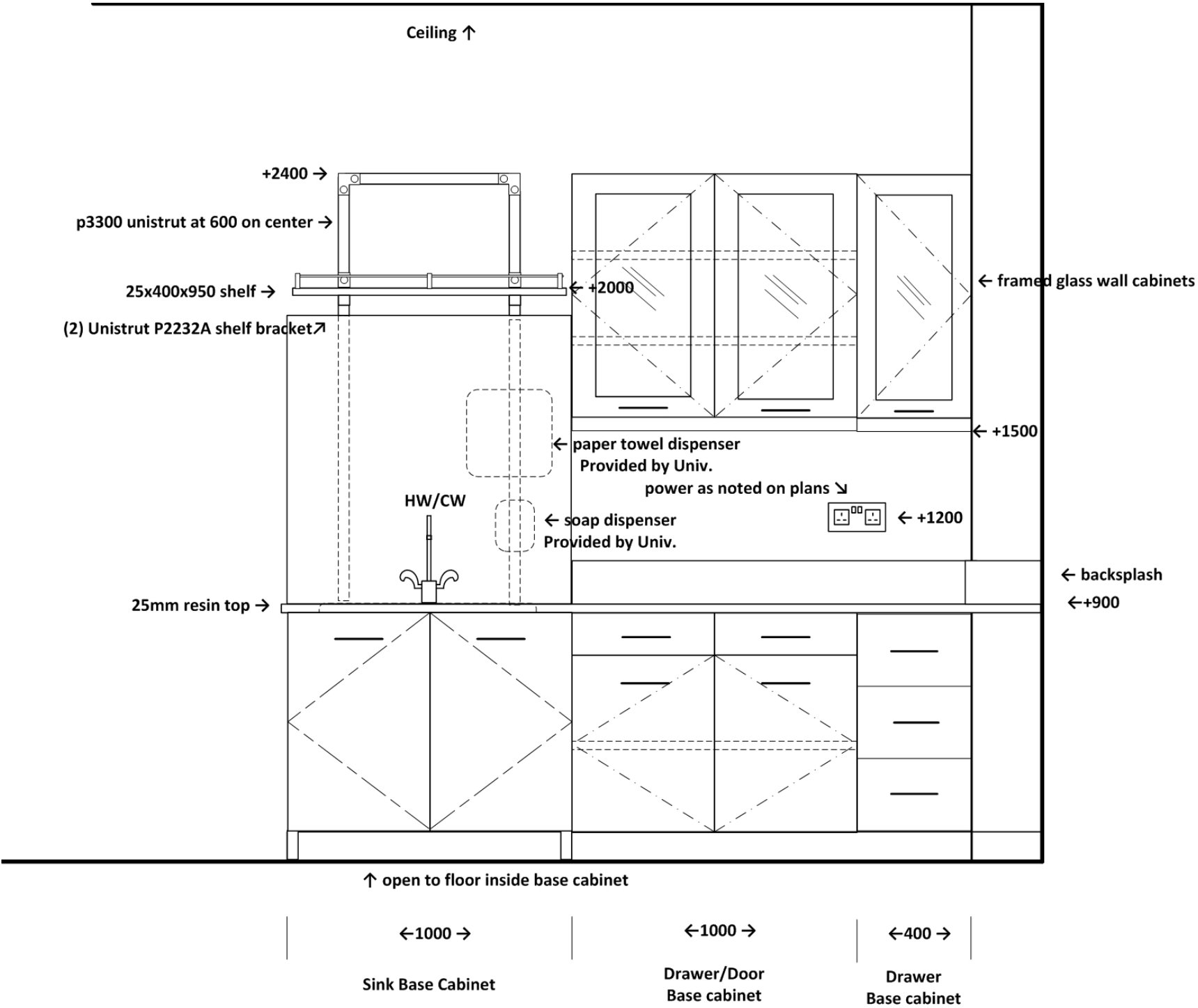


Elevation F



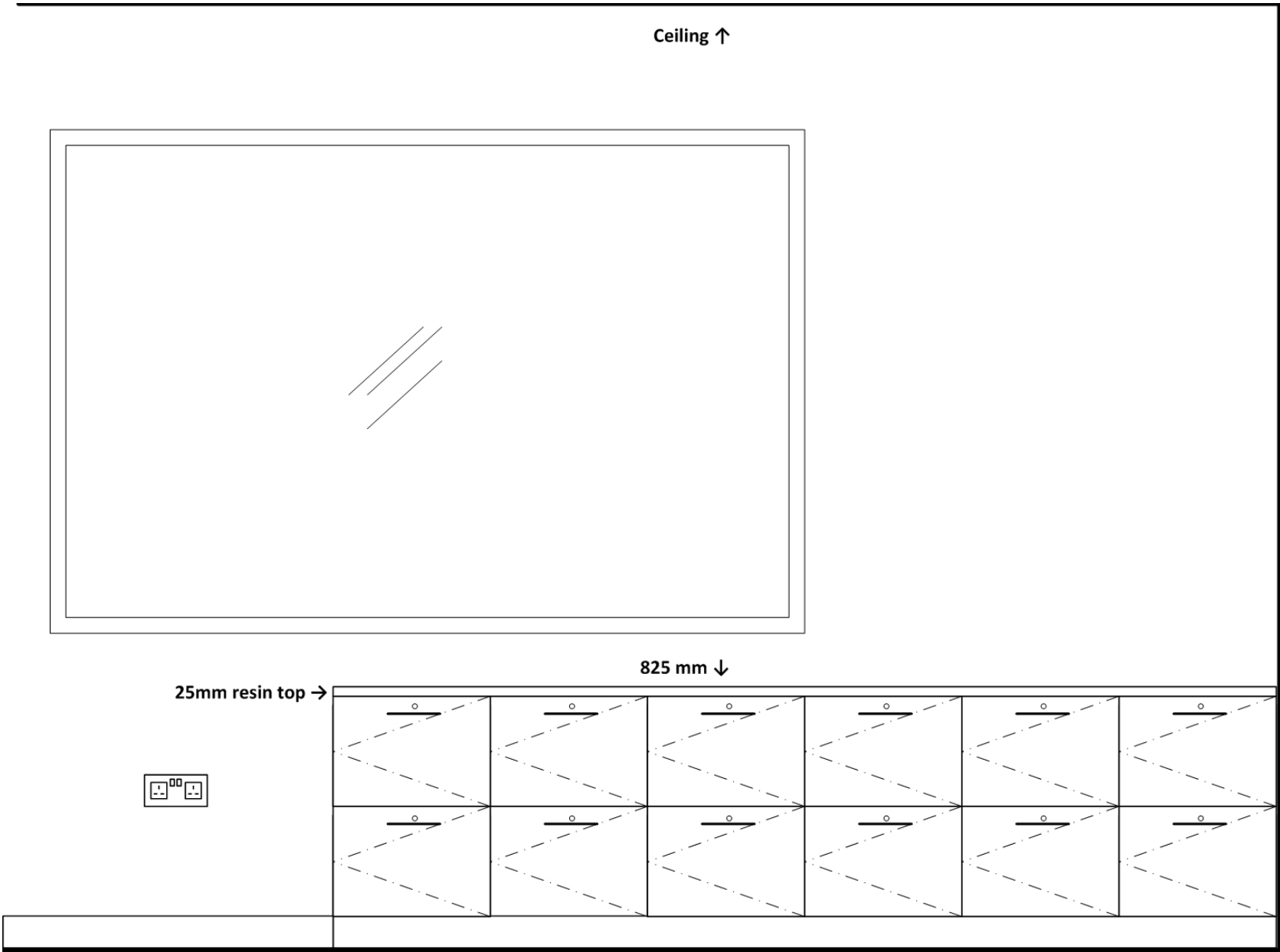
ELEVATION G

WALL BENCH



ELEVATION H

STUDENT LOCKERS



←450 →

←450 →

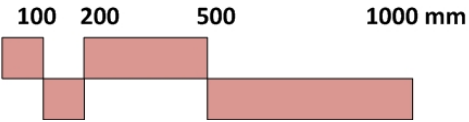
←450 →

←450 →

←450 →

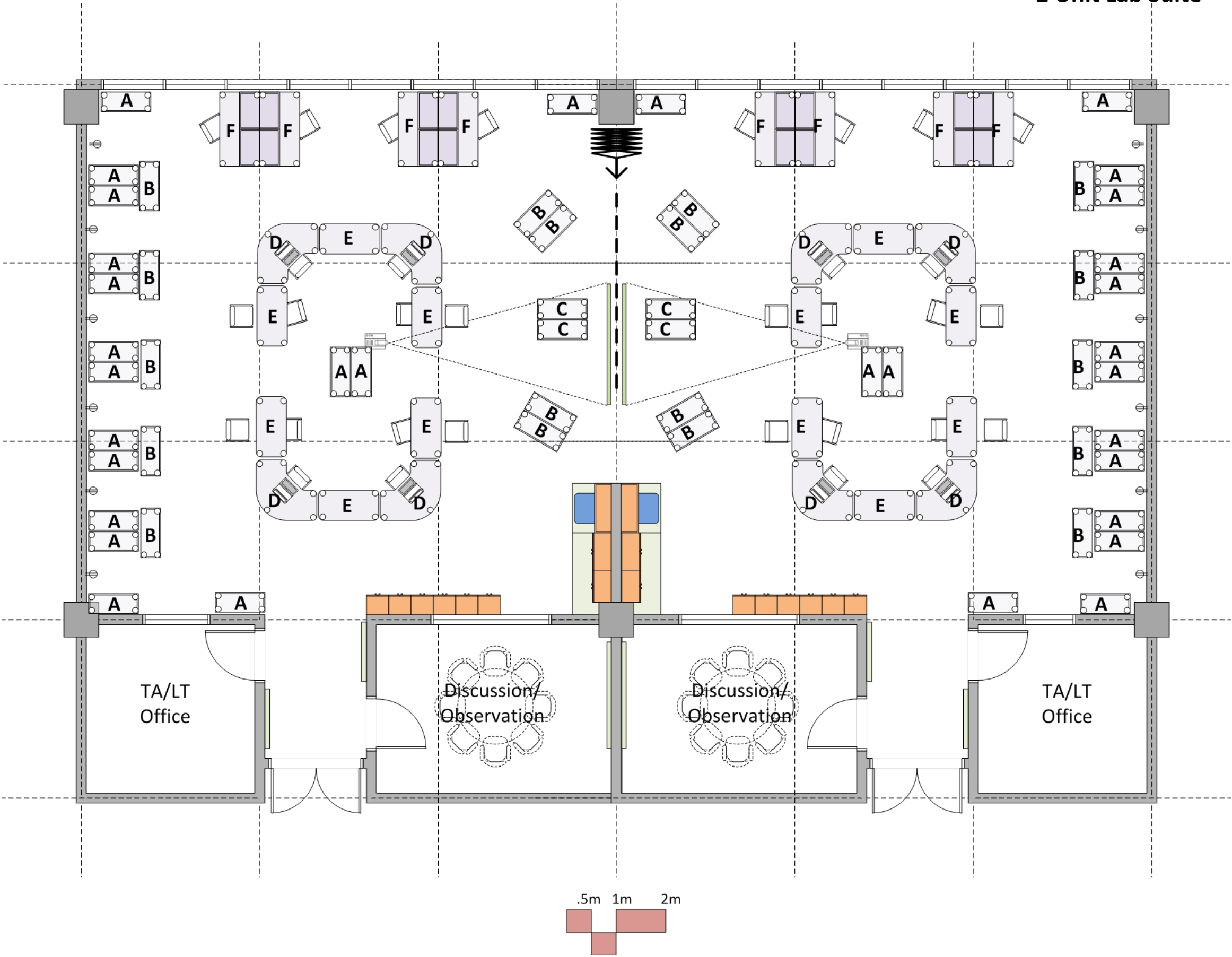
←450 →

Student locker cabinets



TEACHING LAB TYPE A

2 Unit Lab Suite



TEACHING LAB TYPE B

HOSPITAL PRACTICE SKILLS SIMULATION TEACHING LAB

GROUND FLOOR
SIMILAR FOR (2) OTHER LABS GROUND FLOOR

ARCHITECTURAL
 Floor: sheet vinyl- color: white
 Walls: cmu with plaster & paint
 Ceiling: acoustic tile at 3m
 Doors with vision panels
 Vibration attenuation: 25 micrometers/second or less
 Sound attenuation: NC 40 or less
 Light attenuation: at exterior windows with exterior sun shade

MECHANICAL
 Temperature: 22 deg. C +/- 1 deg. C
 Recirculated air
 Equipment heat gain: 250btuh/square meter
 Humidity: 30-50% relative
 Pressure: neutral

PLUMBING
 hot/cold water at lab sinks

ELECTRICAL
 240v outlets
 Data junction boxes at floor and perimeter wall
 Wireless data connection
 Lighting: indirect fluorescent at 60 f.c.

CONTRACTOR FURNISHED EQUIPMENT
 Lab casework, sinks, tops, fittings
 mobile benches and casework
 Bulletin boards
 Marker boards

COLLEGE FURNISHED EQUIPMENT
 scientific benchtop equipment
 computers

Elevations for Lab Type B are similar to Lab Type A.

A (10)

Medical Storage Cabinet
 1000mm wide x 400 mm deep x 2000mm high
 Mobile on heavy duty casters
 Lockable storage cabinet below
 Adjustable open shelves above
 Weighted at bottom to prevent overturning
 Color: White

B (7)

Pharmacy Display Cabinet
 1000mm wide x 400 mm deep x 2000mm high
 Mobile on heavy duty casters
 Open, adjustable shelves
 Weighted at bottom to prevent overturning
 Color: White

C (2)

Document Display Cabinet
 1000mm wide x 400 mm deep x 1200mm high
 Mobile on heavy duty casters
 Open slots at front for display of literature
 Weighted at bottom to prevent overturning
 Color: White

D (3)

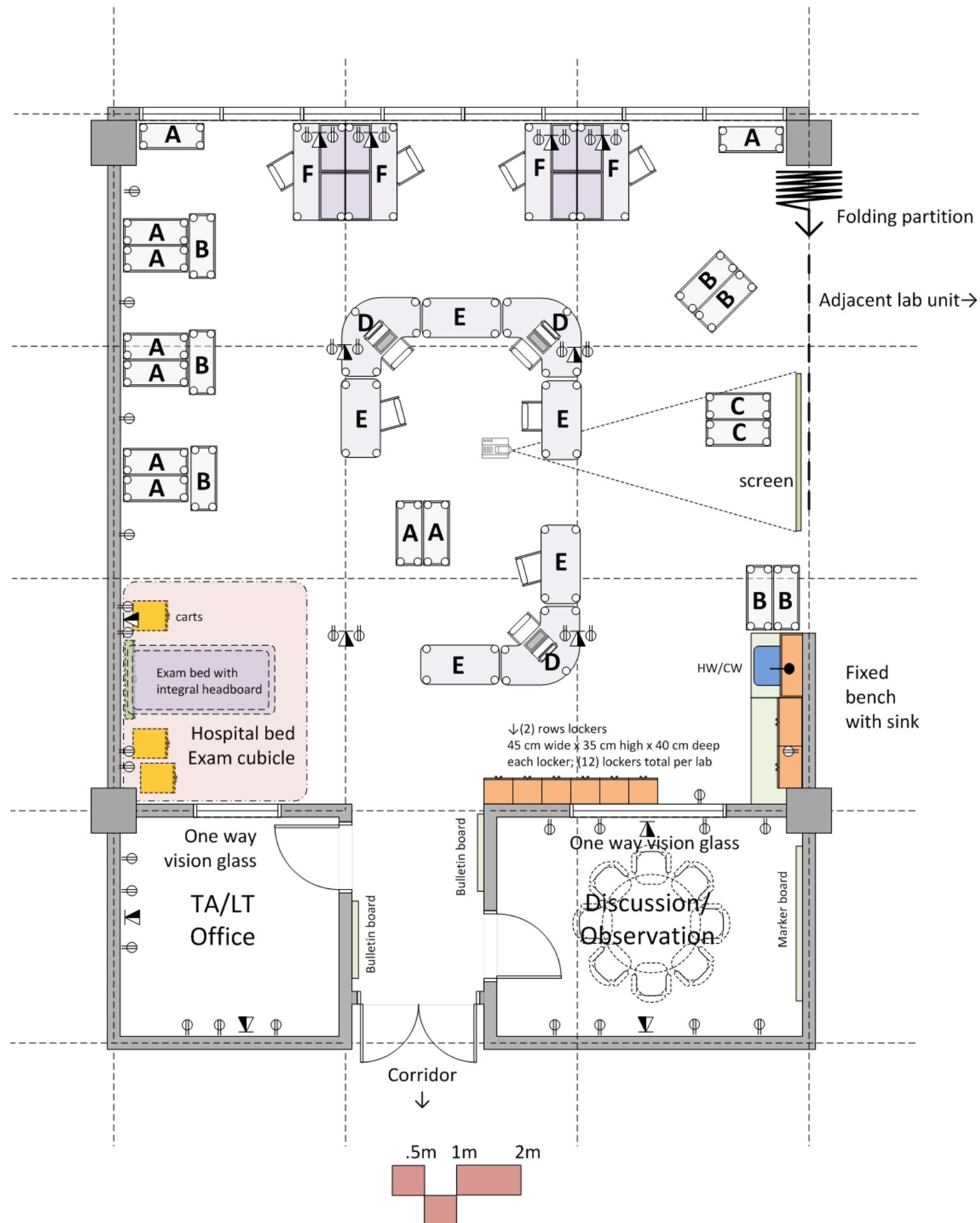
Prescription Counter
 1200mm wide x 1200 mm deep x 1200mm high
 Mobile on heavy duty casters
 Work surface at 750 mm above floor
 Counter above at 1200 mm above floor
 Color: White
 (2) duplex 240v outlets and data at each counter located in recessed, flush floor outlets with brass cover plates- do not use flip top lids

E (5)

Mobile Desk/Bench Unit
 1200mm wide x 750 mm deep x 750mm high
 Mobile on heavy duty casters
 Color: White

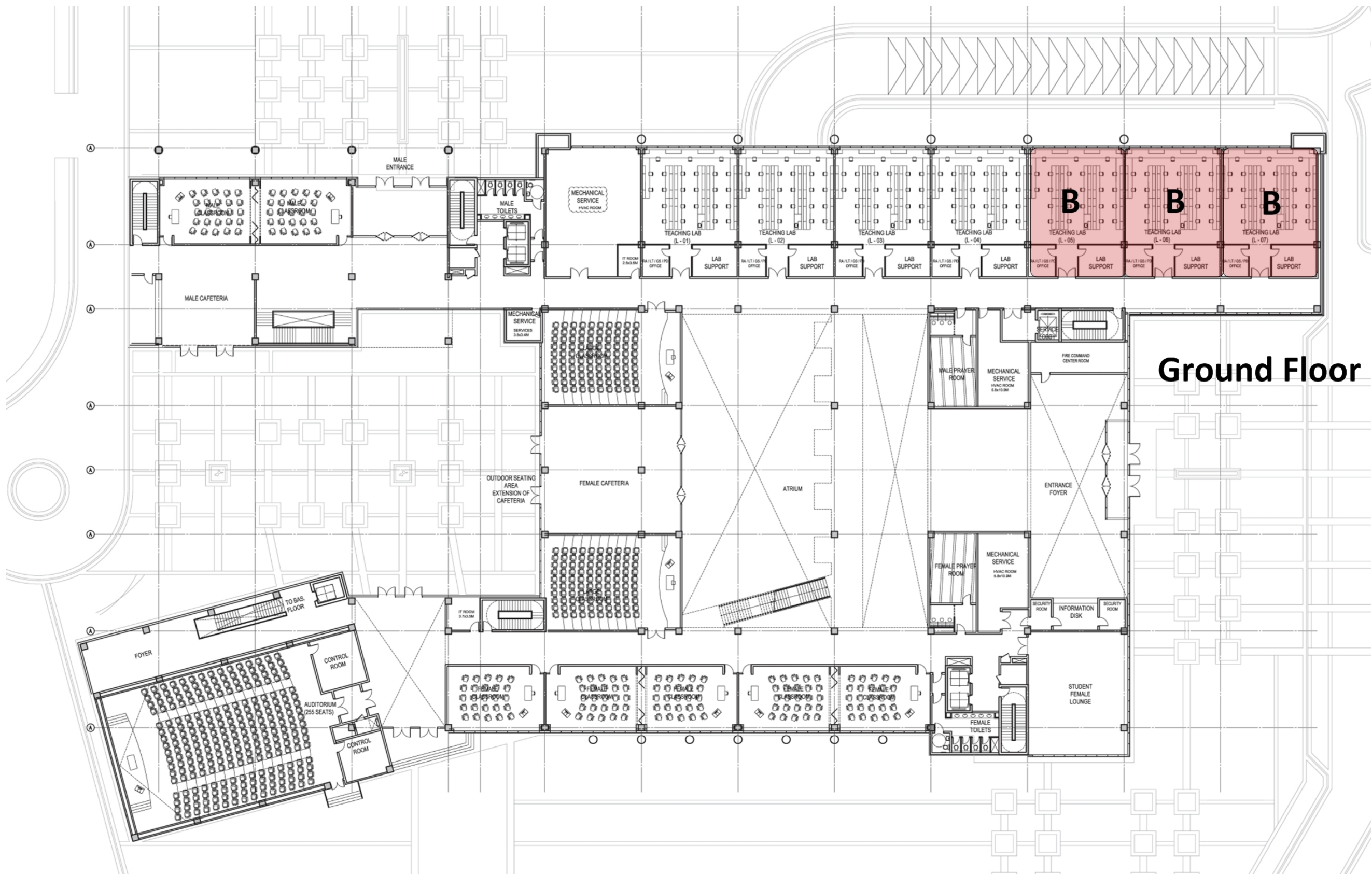
F (4)

Desk Unit
 1500mm wide x 8000 mm deep x 1500mm high
 Mobile on heavy duty casters
 (2) rows shelves above
 File cabinet below
 Color: White
 (2) duplex 240v outlets and data at each unit located in wall



TEACHING LAB TYPE B

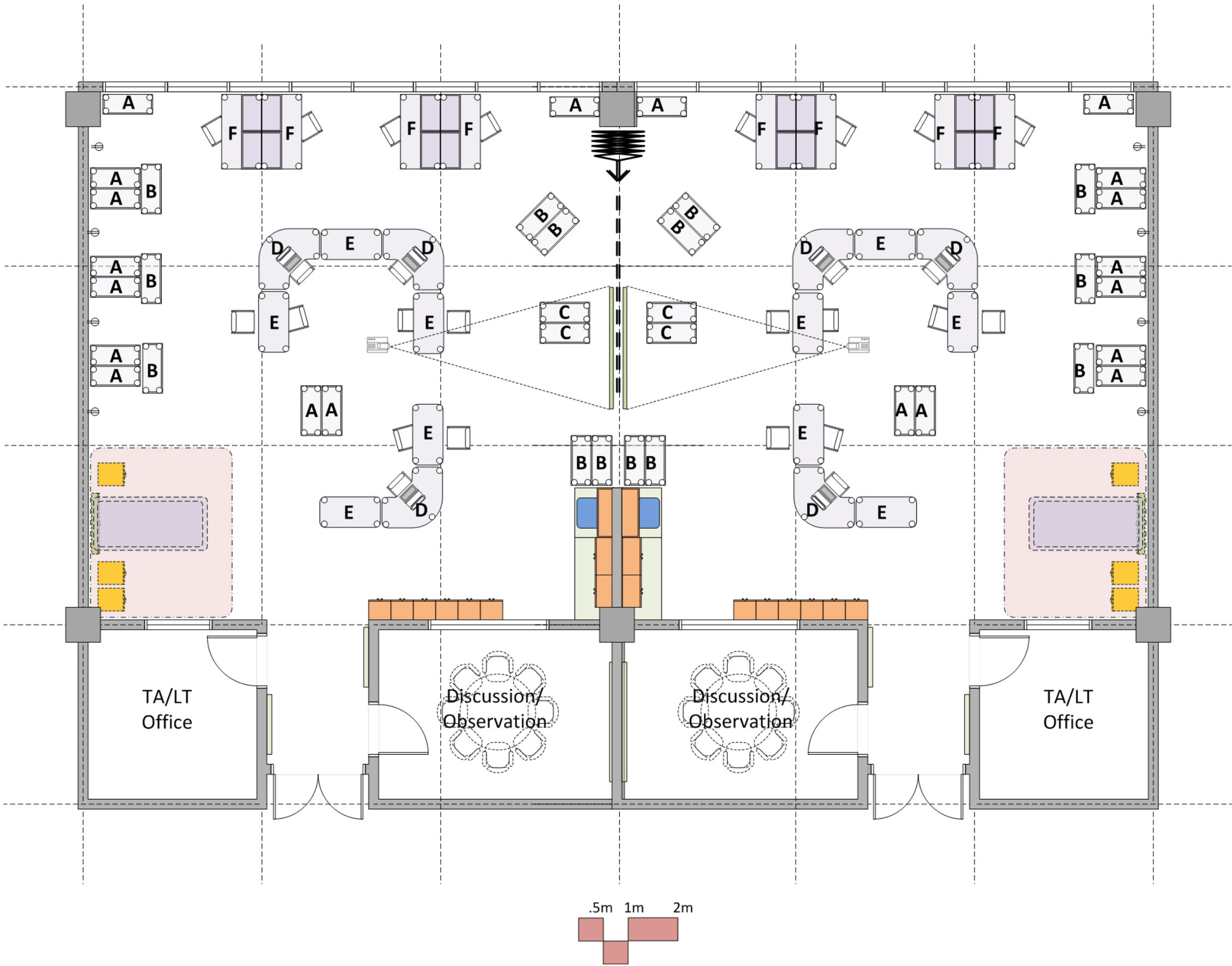
KEY PLAN- GROUND FLOOR



Ground Floor

TEACHING LAB TYPE B

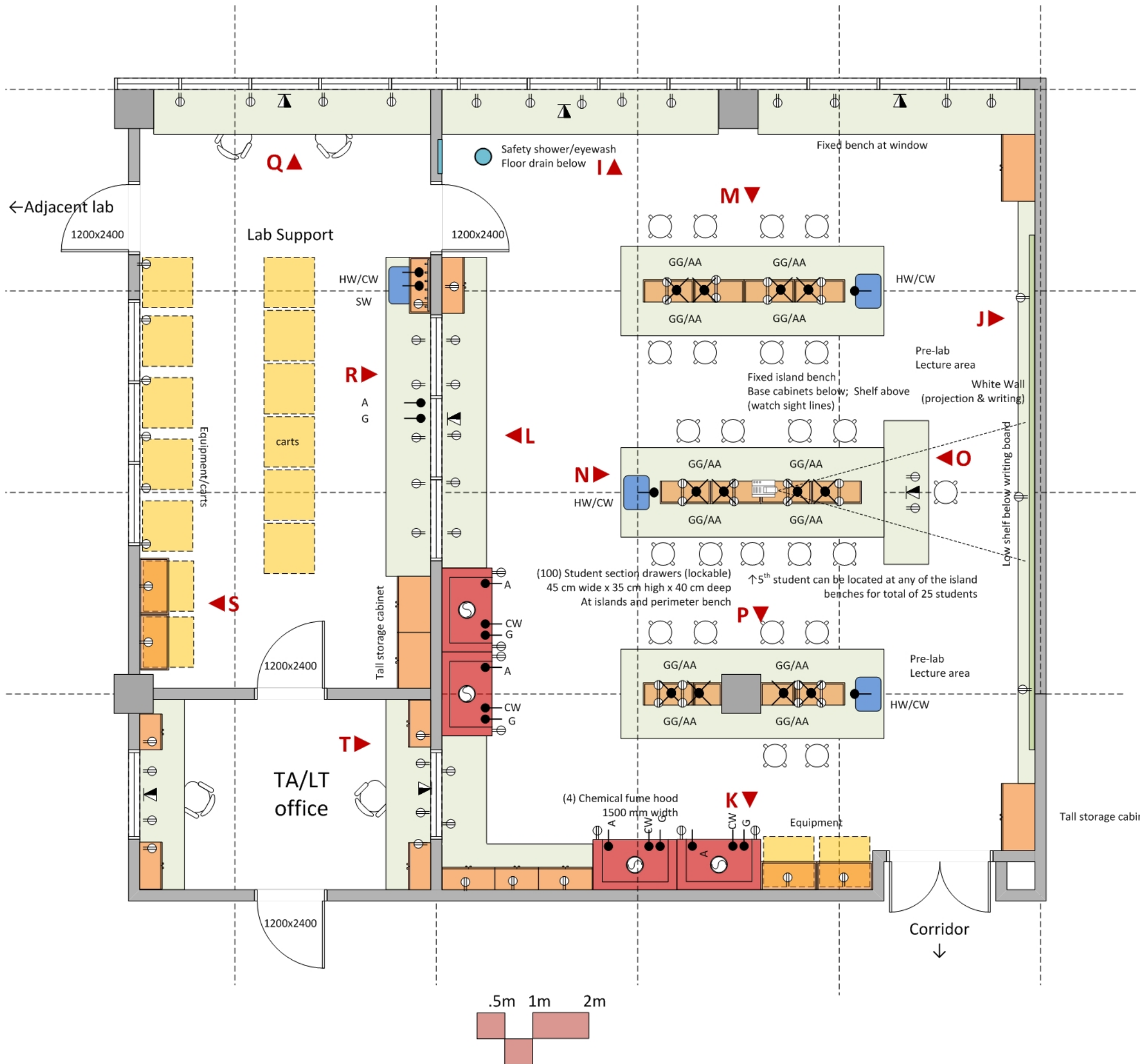
2 Unit Lab Suite



TEACHING LAB TYPE C

GENERAL PHARMACY TEACHING LAB

FIRST FLOOR
SIMILAR FOR (4) OTHER LAB FIRST FLOOR



ARCHITECTURAL

Floor: sheet vinyl
Walls: cmu, plaster & paint
Ceiling: acoustic tile at 3m
Doors with vision panels
Vibration attenuation: 25 micrometers/second or less
Sound attenuation: NC 40 or less
Light attenuation: at exterior windows with exterior sun shade

MECHANICAL

Temperature: 22 deg. C +/- 1 deg. C
100% exhaust: 6 air changes per hour minimum occupied
4 air changes per hour unoccupied
Air change rate may be higher due to equipment heat gain
Equipment heat gain: 250-500 btuh/square meter
Humidity: 30-50% relative
Pressure: negative

PLUMBING

hot/cold water at lab sinks
Gas & compressed air on each island bench
Gas, compressed air, and cold water at each fume hood
Domestic water at safety shower/eyewash

ELECTRICAL

240v power
Dedicated circuits at equipment spaces
Wireless data connection
Lighting: indirect fluorescent at 60 f.c.

CONTRACTOR FURNISHED EQUIPMENT

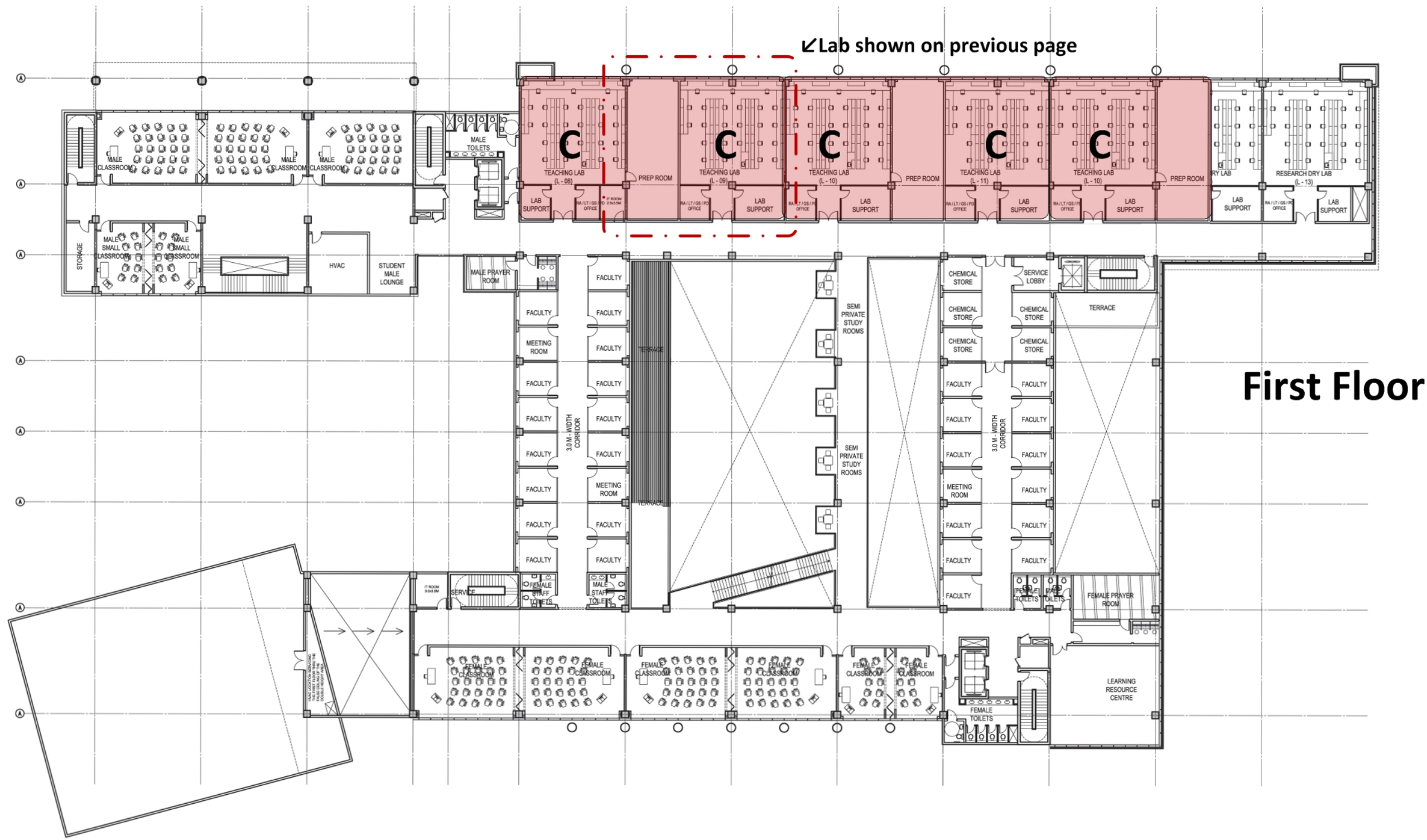
Lab casework, sinks, tops, fittings

COLLEGE FURNISHED EQUIPMENT

Scientific benchtop equipment
Floor equipment

TEACHING LAB TYPE C

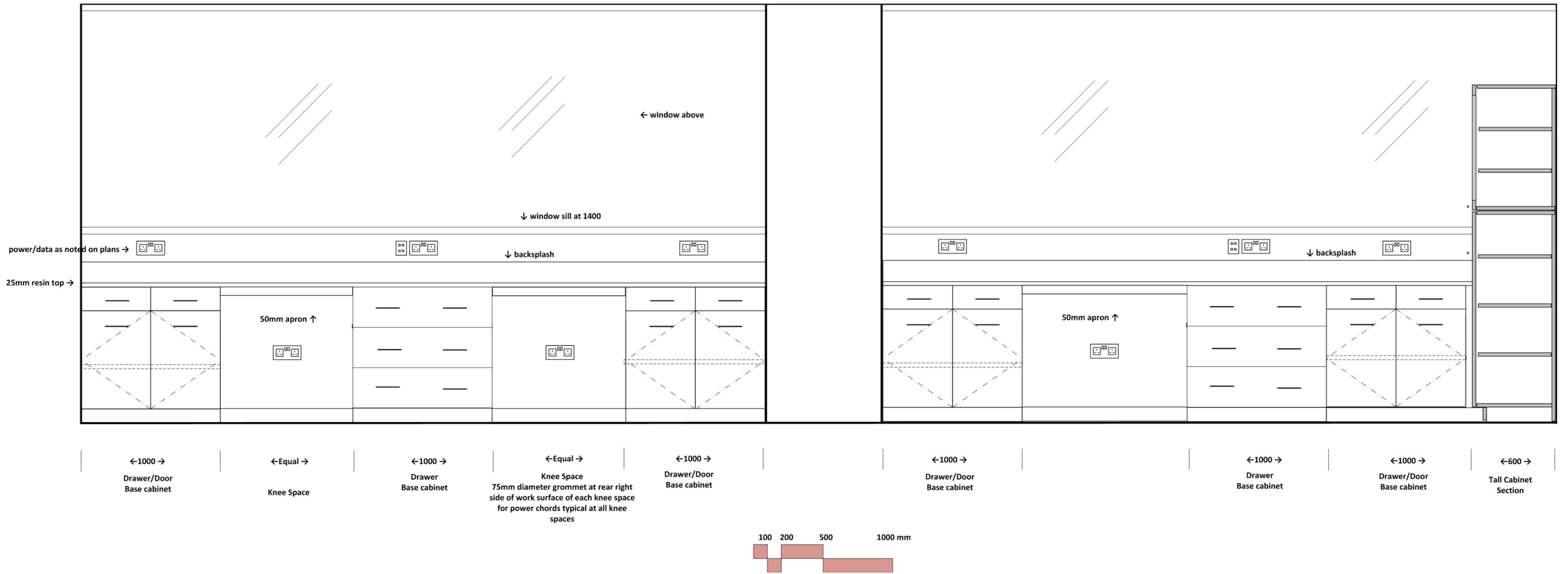
KEY PLAN- FIRST FLOOR



First Floor

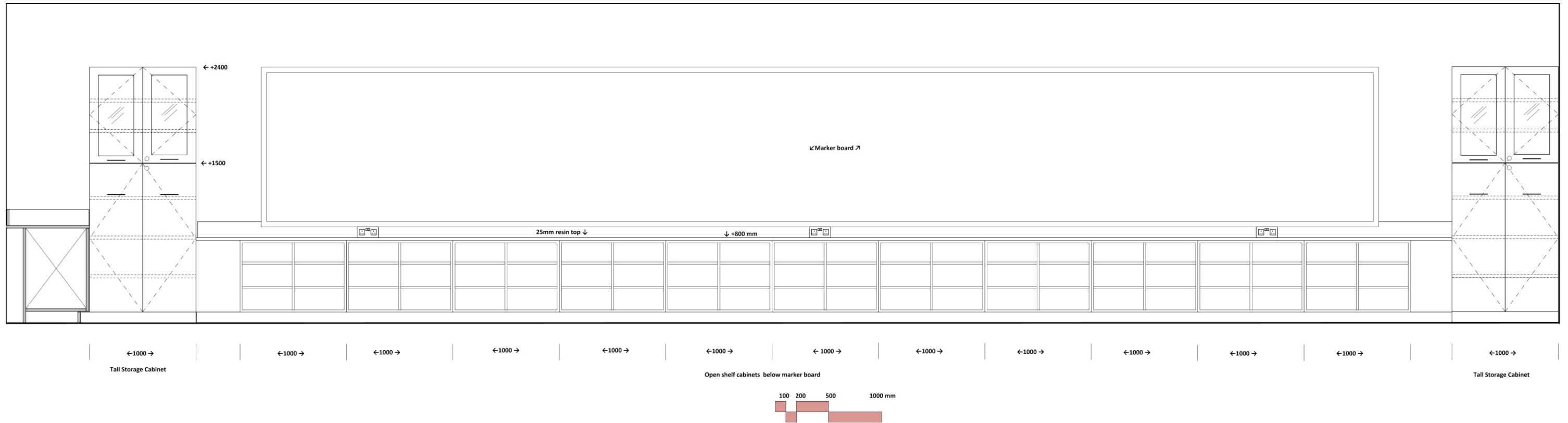
ELEVATION I

WINDOW BENCH



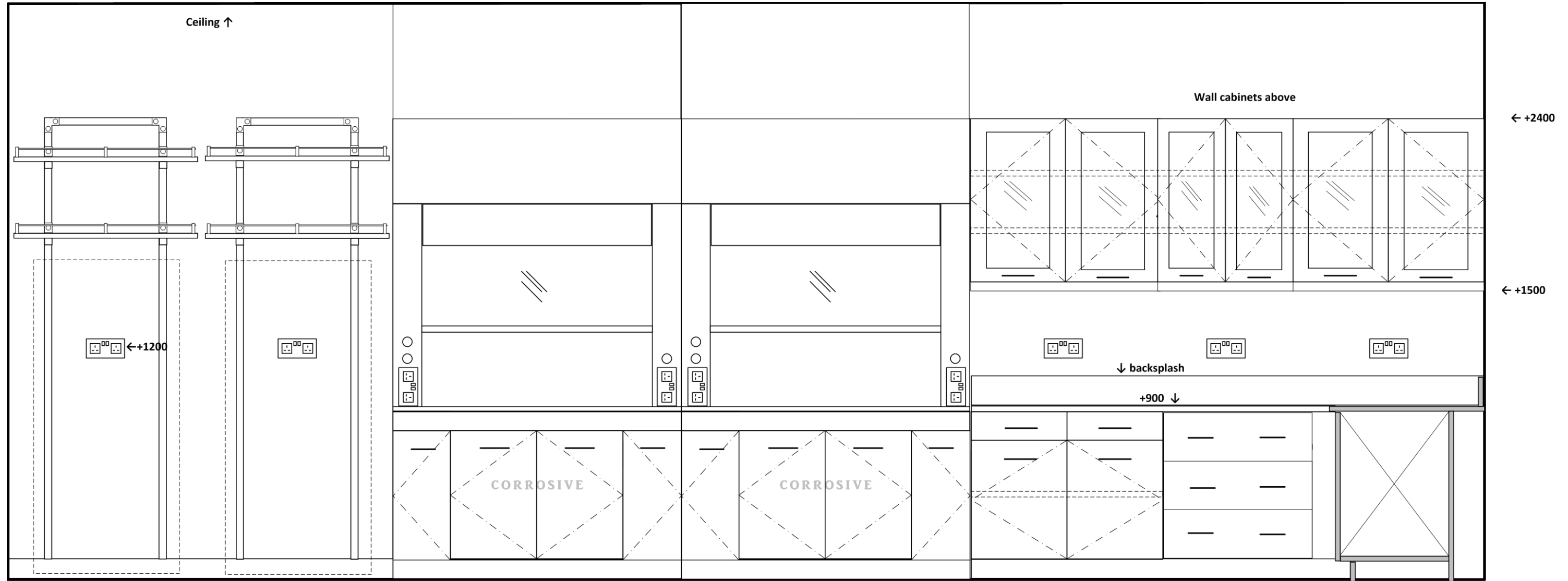
ELEVATION J

MARKER BOARD WALL



ELEVATION K

LAB ENTRY WALL



←1000 →
Equipment space
Shelves above

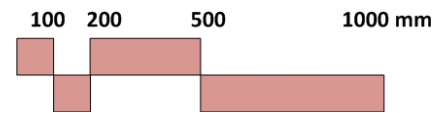
←1000 →
Equipment space
Shelves above

←1500 →
chemical fume hood

←1500 →
chemical fume hood

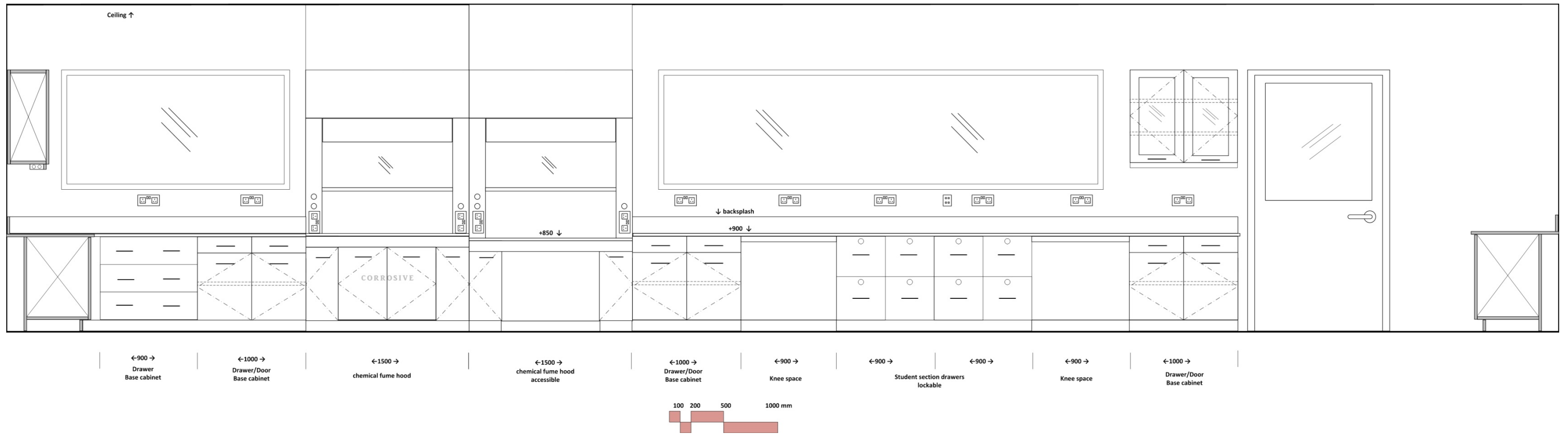
←1000 →
Drawer/Door
Base cabinet

←800 →
Drawer
Base cabinet



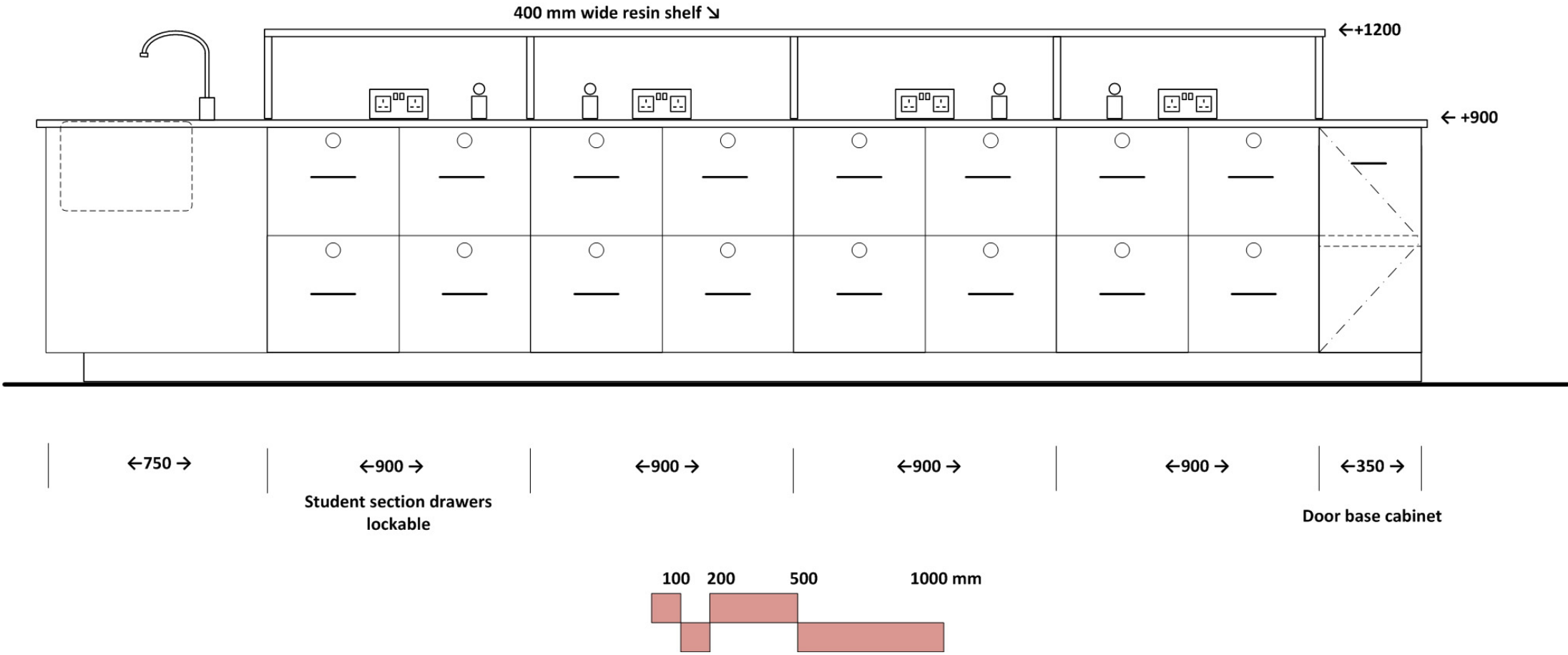
ELEVATION L

LAB BACK WALL



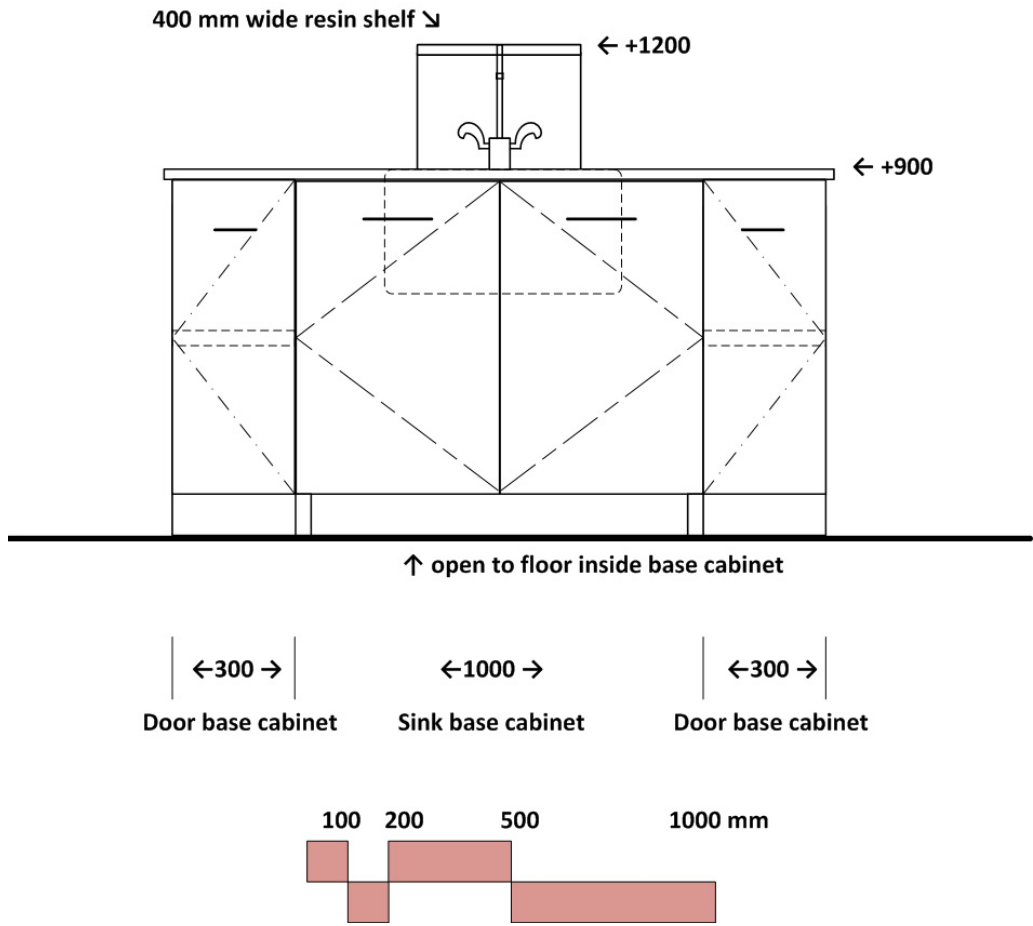
ELEVATION M

STUDENT ISLAND BENCH



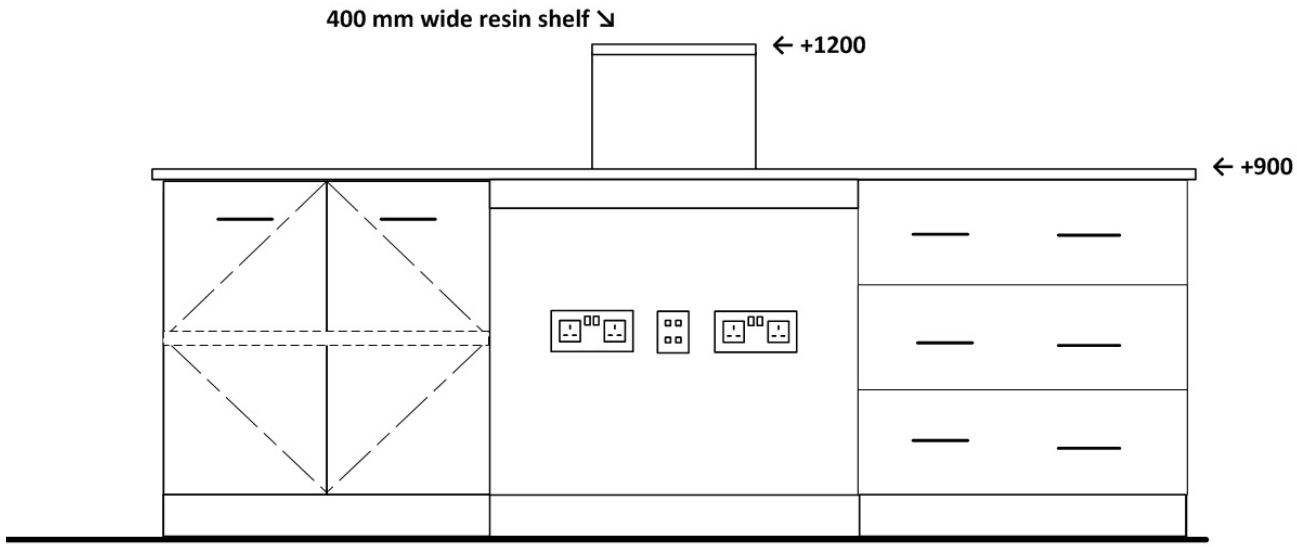
ELEVATION N

STUDENT ISLAND SINK END



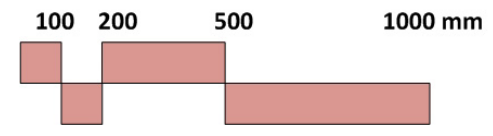
ELEVATION O

STUDENT ISLAND INSTRUCTOR BENCH



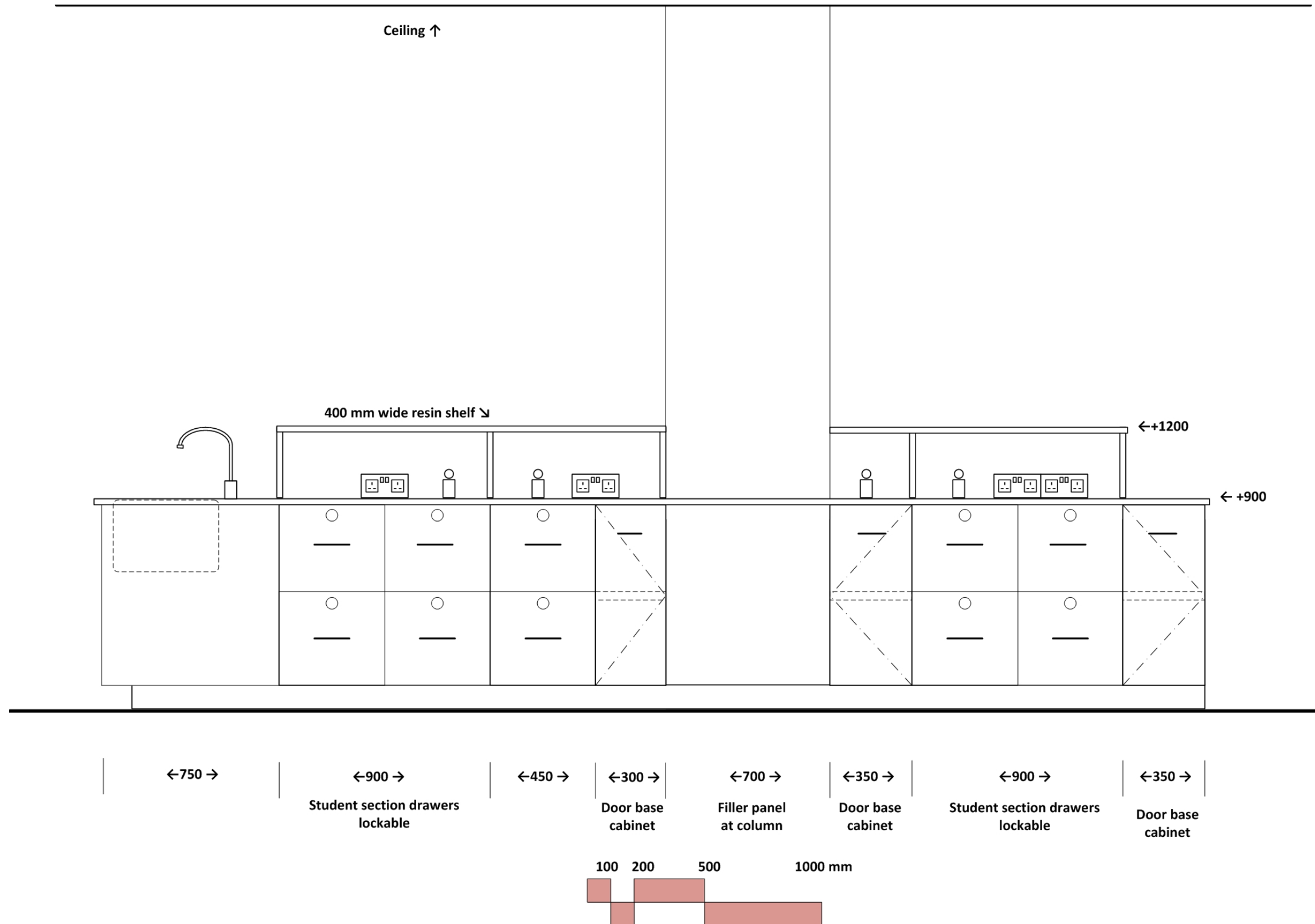
←800→ Door base cabinet ←900→ Knee space ←800→ Drawer base cabinet

75mm diameter grommet at rear right side of work surface of each knee space for power chords typical at all knee spaces



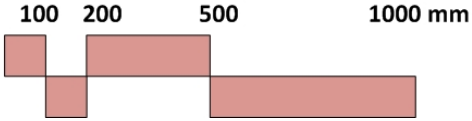
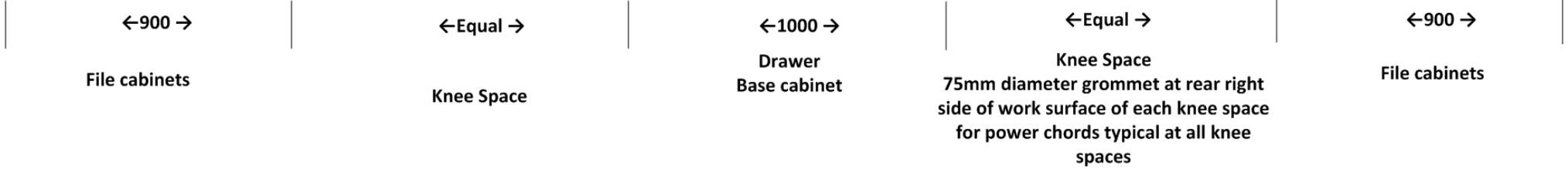
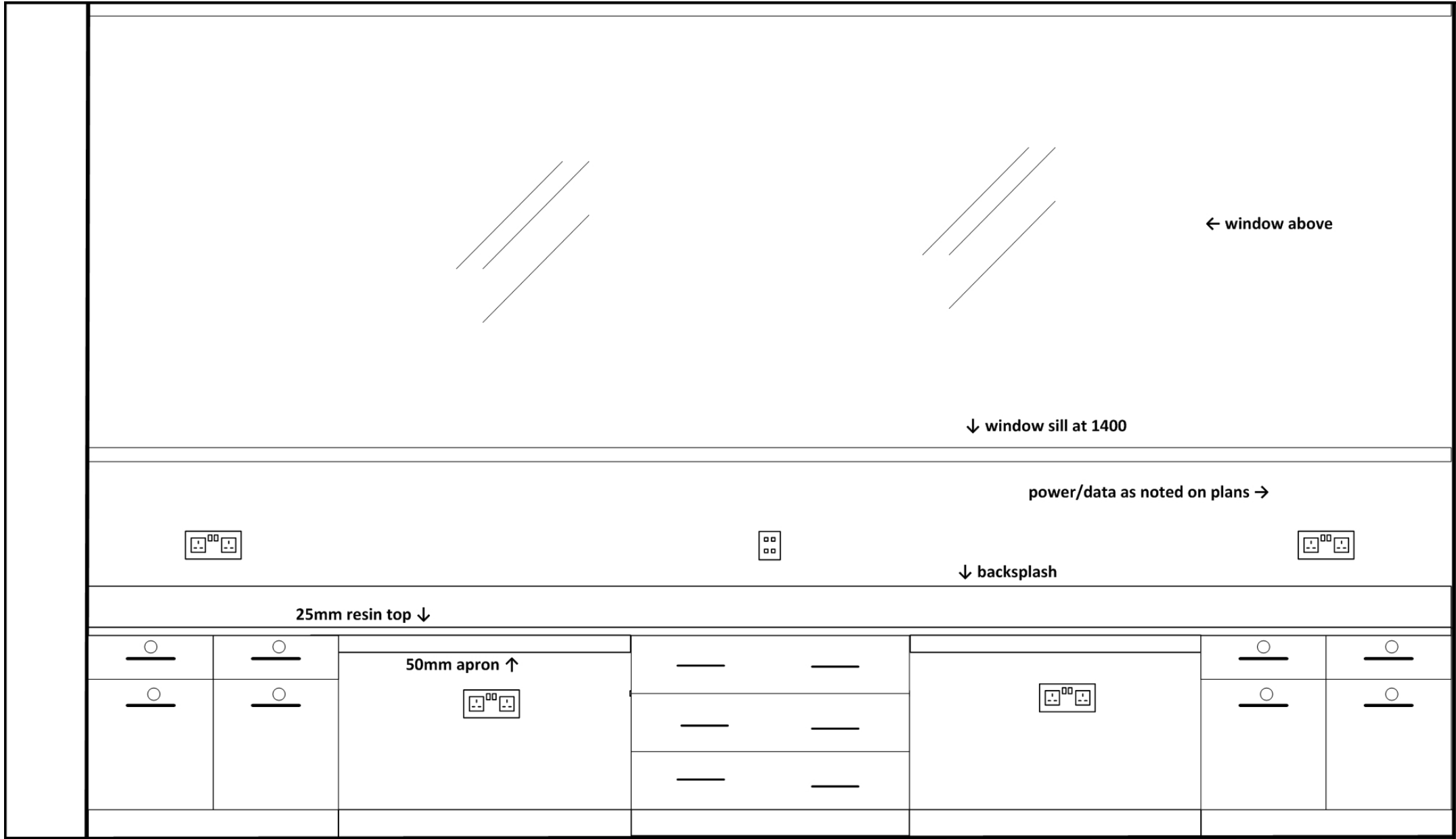
ELEVATION P

STUDENT ISLAND WITH COLUMN



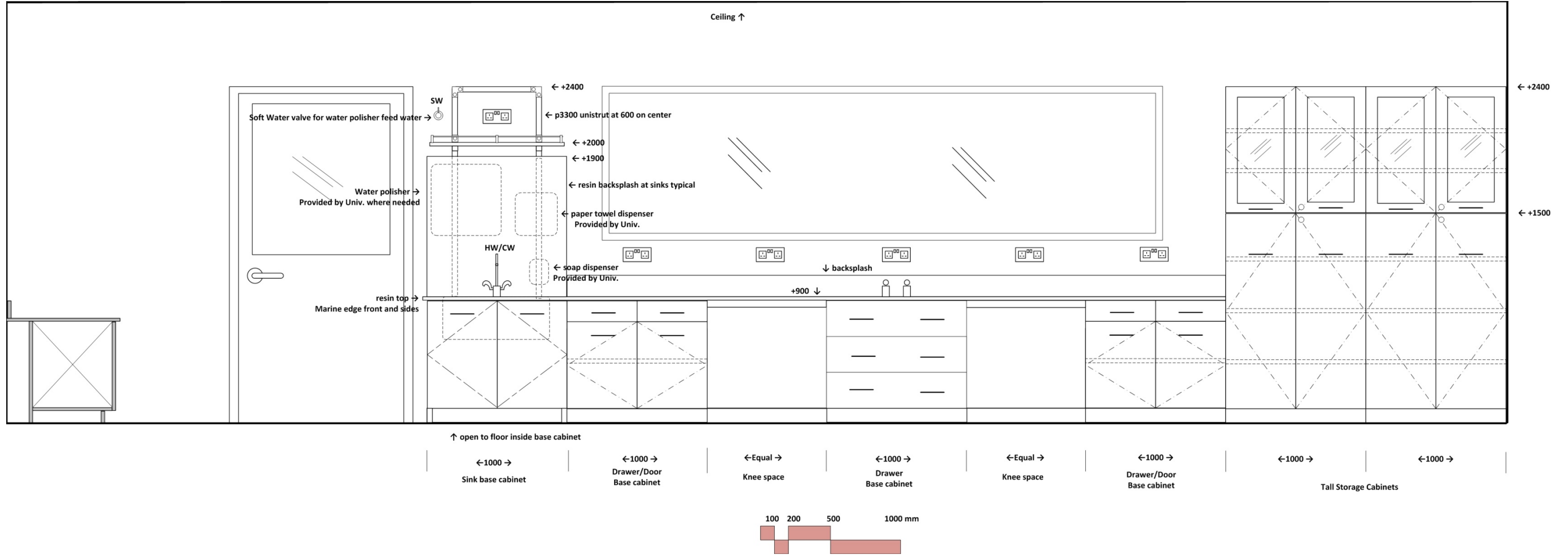
ELEVATION Q

WINDOW BENCH LAB SUPPORT



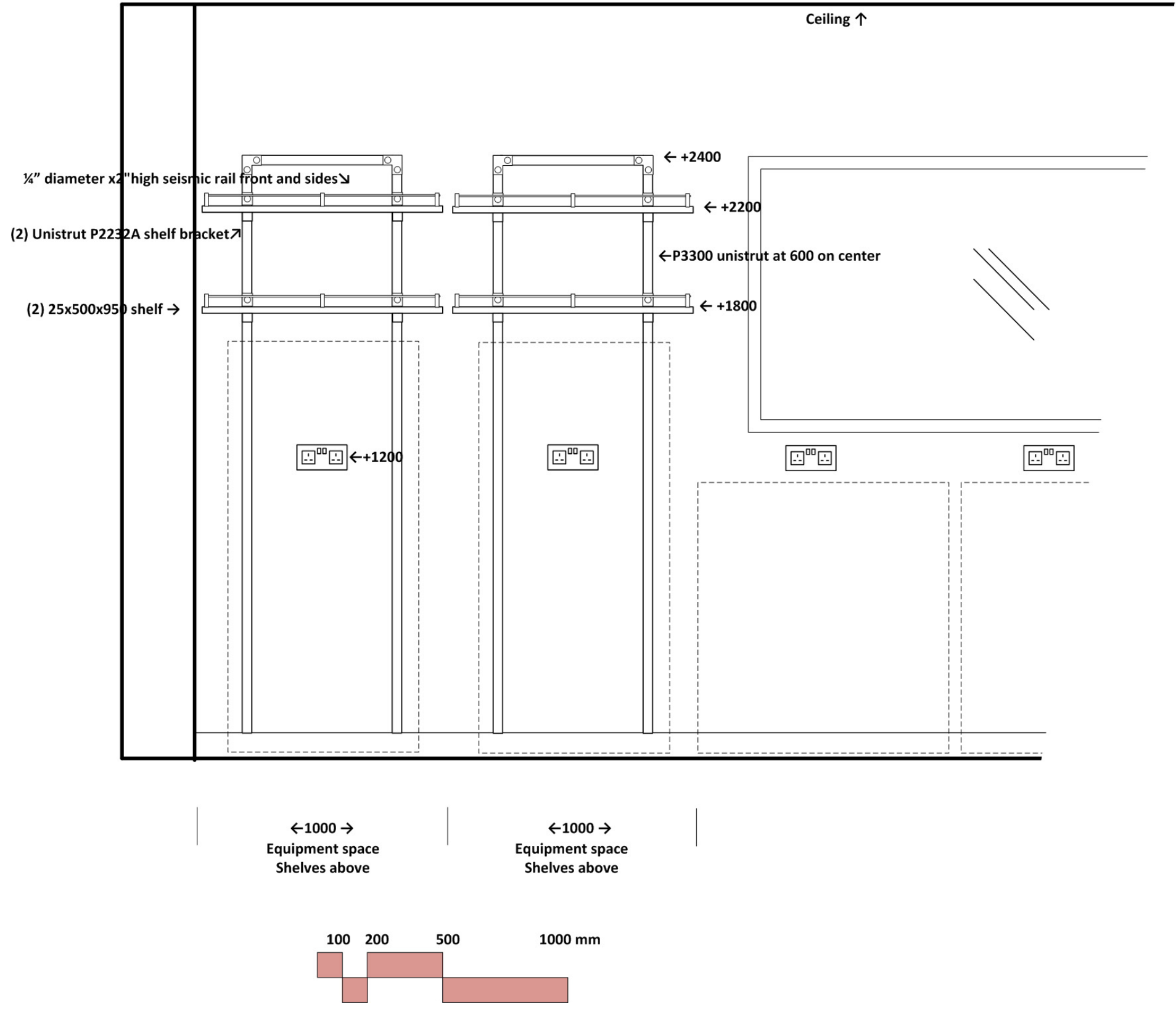
ELEVATION R

LAB SUPPORT BENCH

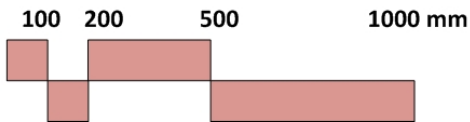
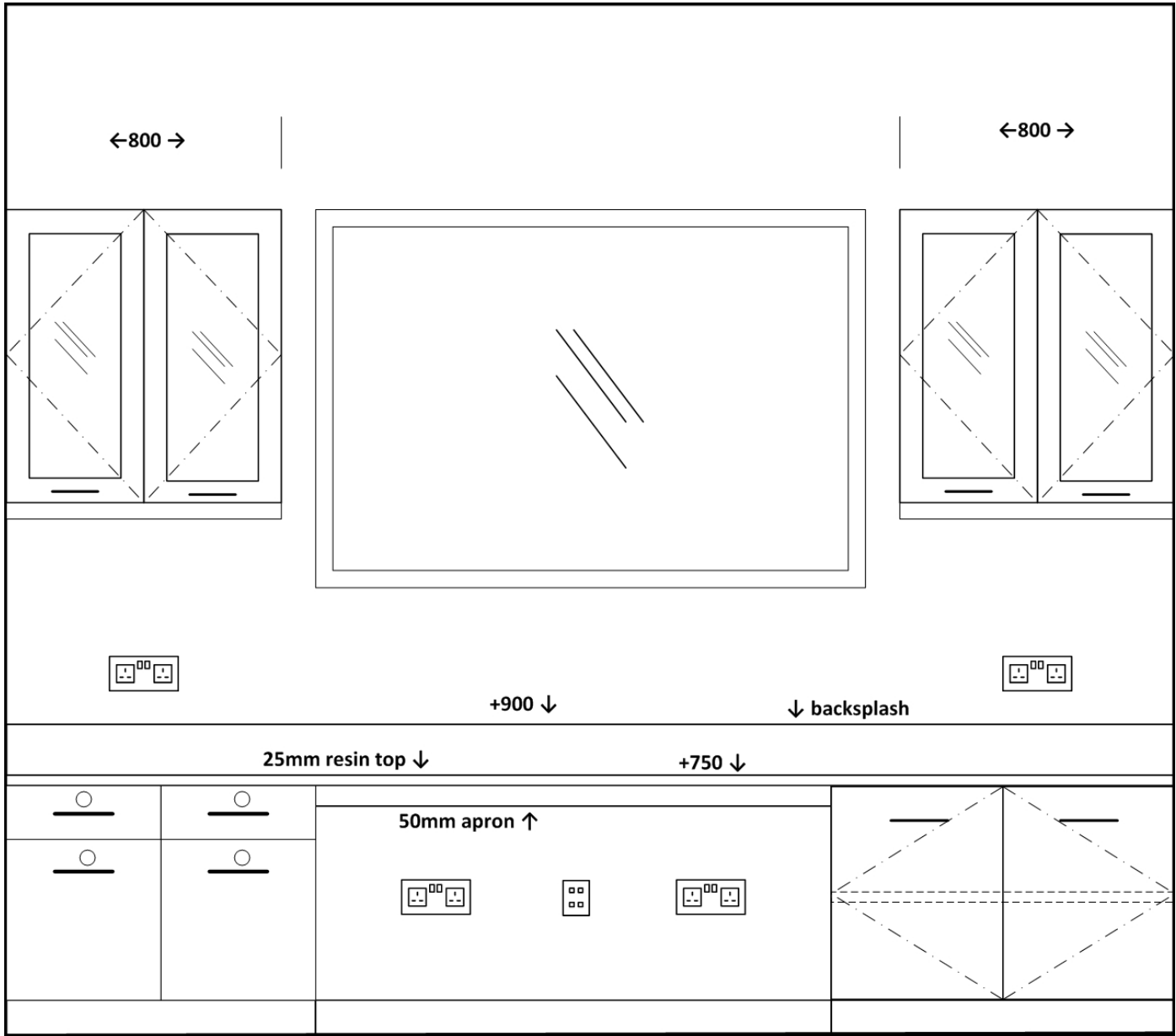


ELEVATION S

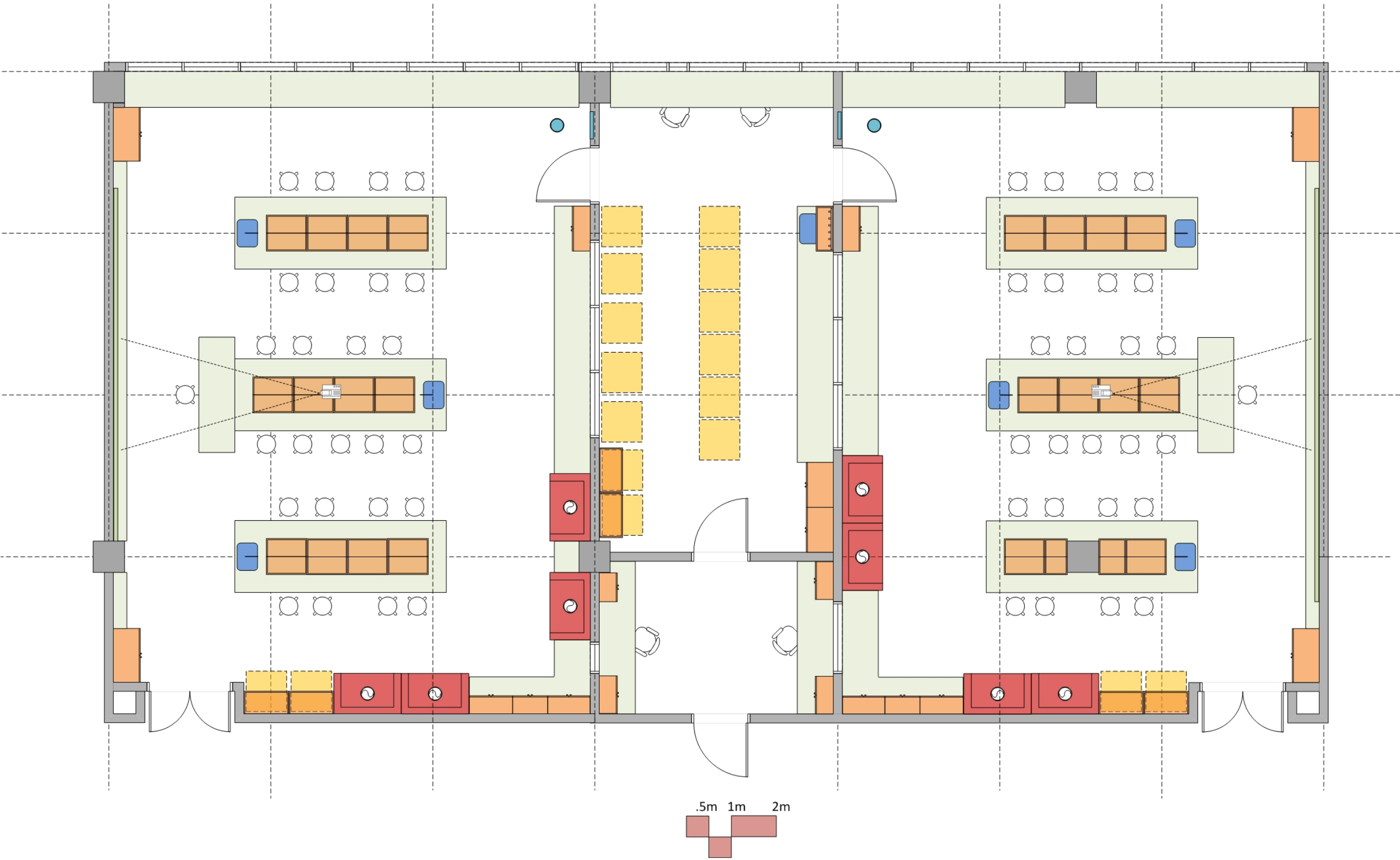
LAB SUPPORT EQUIPMENT SPACE



ELEVATION T
TA/LT OFFICE BENCH

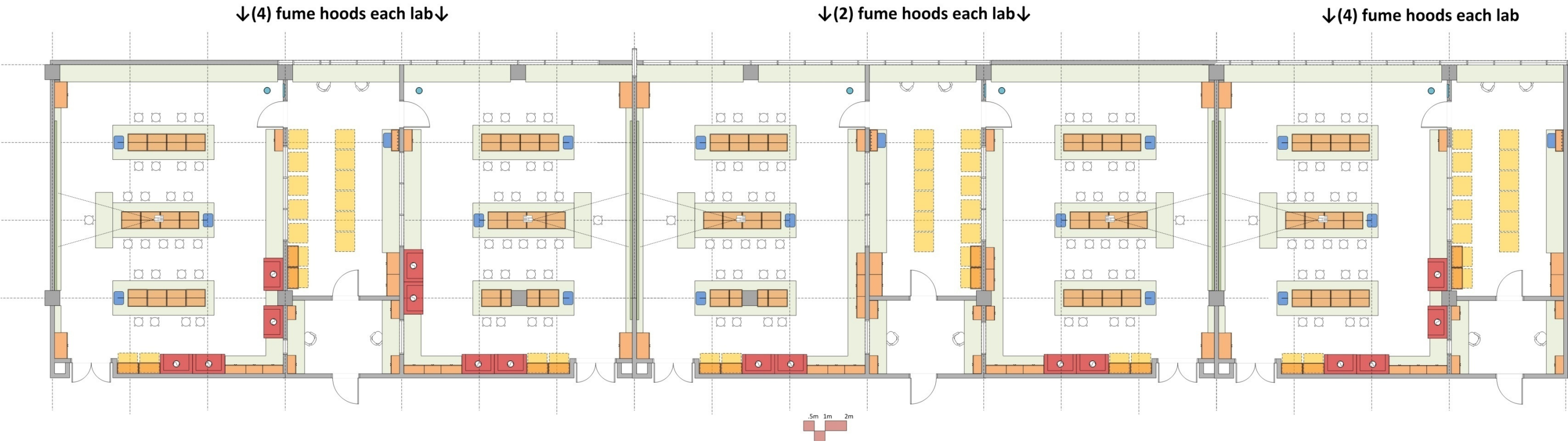


TEACHING LAB TYPE C
2 Unit Lab Suite



TEACHING LAB TYPE C

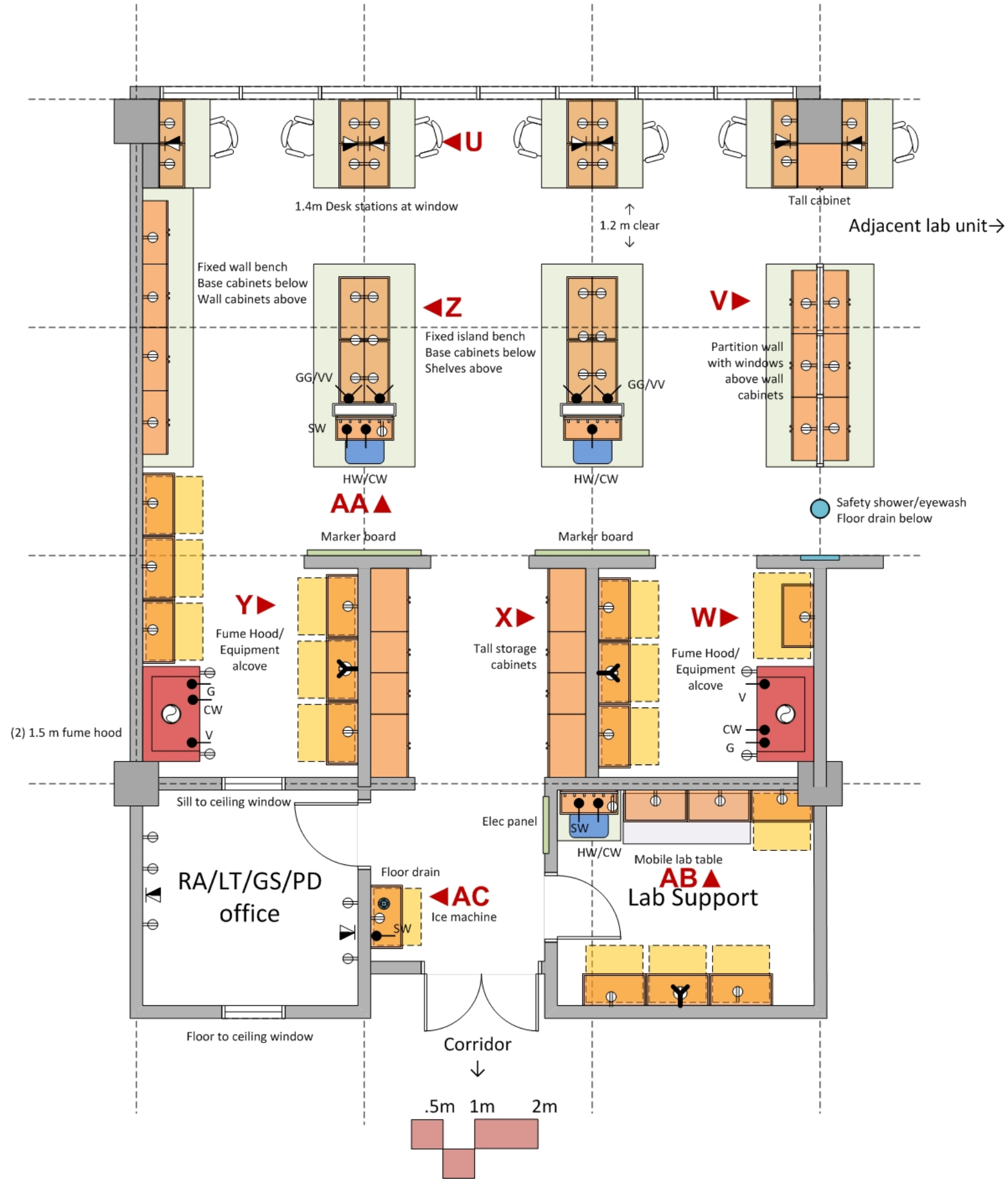
5 Unit Lab Suite



RESEARCH LAB TYPE D

PHARMACY RESEARCH WET LAB

SECOND FLOOR
SIMILAR FOR (9) OTHER LABS SECOND FLOOR



ARCHITECTURAL

Floor: sheet vinyl
Walls: cmu with plaster & paint
Ceiling: acoustic tile at 3m
Doors with vision panels
Vibration attenuation: 25 micrometers/second or less
Sound attenuation: NC 40 or less
Light attenuation: at exterior windows with exterior sun shade

MECHANICAL

Temperature: 22 deg. C +/- 1 deg. C
100% exhaust: 6 air changes per hour minimum occupied
4 air changes per hour unoccupied
Air change rate may be higher due to equipment heat gain
Equipment heat gain: 500-750 btuh/square meter
Humidity: 30-50% relative
Pressure: negative

PLUMBING

hot/cold water at lab sink
Soft water at lab sinks (SW) for point-of-use water polisher
Soft water at ice machine
Gas, vacuum, cold water at fume hood
Gas, vacuum at lab islands
Domestic cold water at safety shower/eyewash
Floor drain at safety shower
Floor drain at ice machine

ELECTRICAL

240v outlets
415v3ph outlets
Dedicated circuits at equipment spaces
Standby power at equipment spaces
Data junction boxes at desk workstations
Wireless data connection
Lighting: indirect fluorescent at 60 f.c.

CONTRACTOR FURNISHED EQUIPMENT

Lab casework, sinks, tops, fittings
Safety shower/eyewash
Chemical fume hoods
marker boards

COLLEGE FURNISHED EQUIPMENT

scientific benchtop equipment
Floor equipment

RESEARCH LAB TYPE D

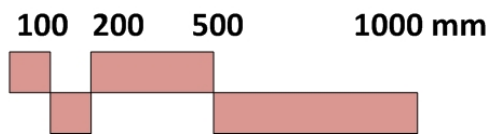
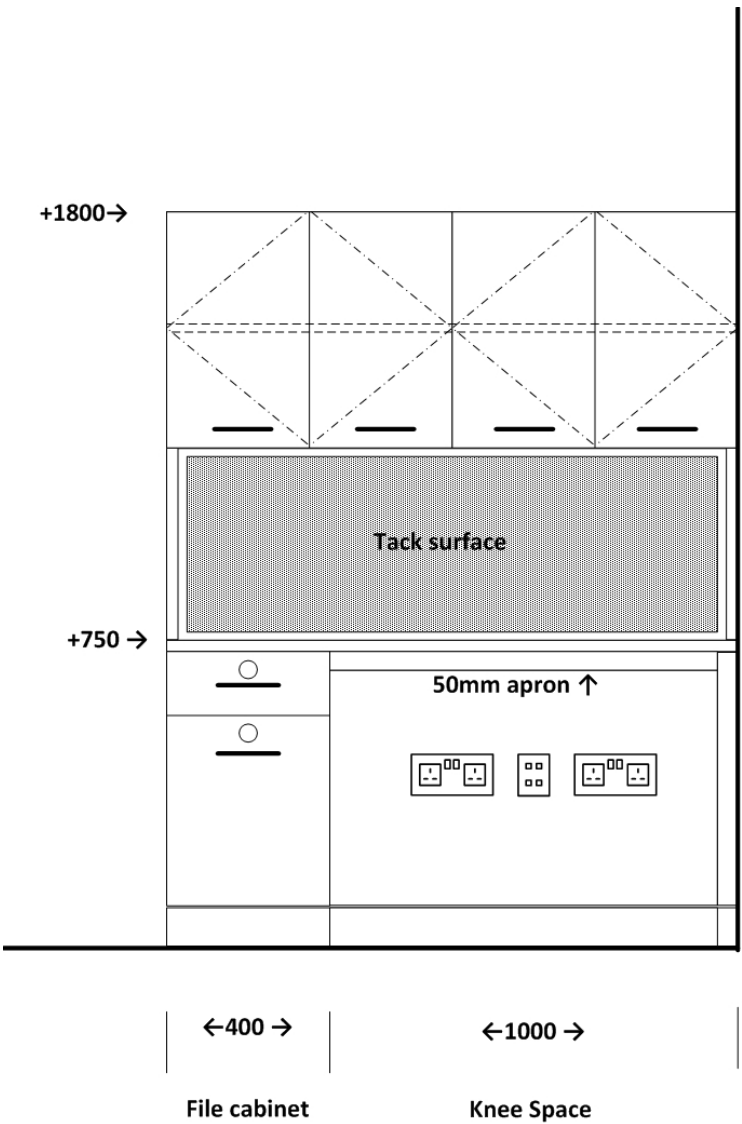
KEY PLAN- SECOND FLOOR



Second Floor

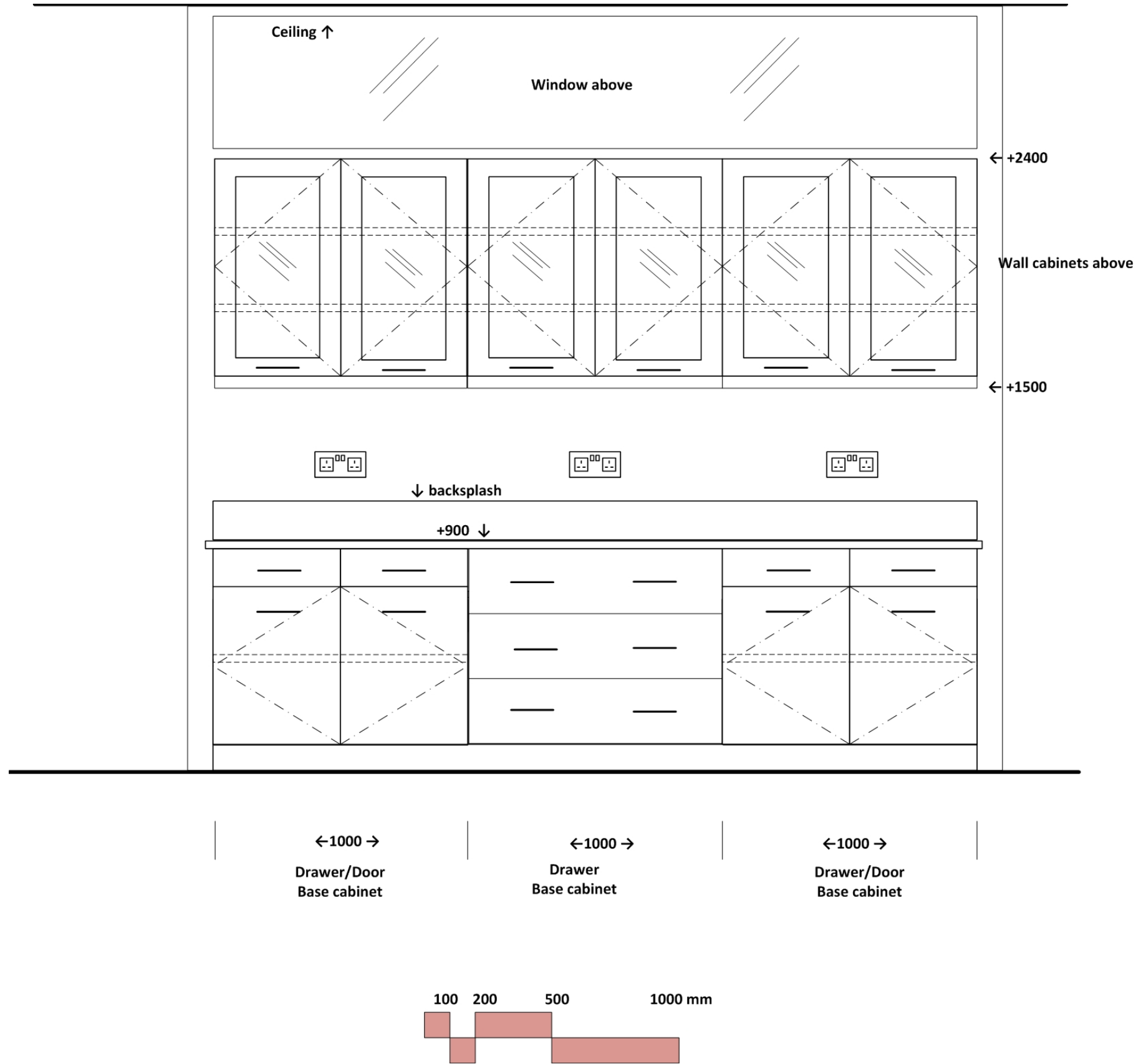
ELEVATION U

DESK STATION AT WINDOW

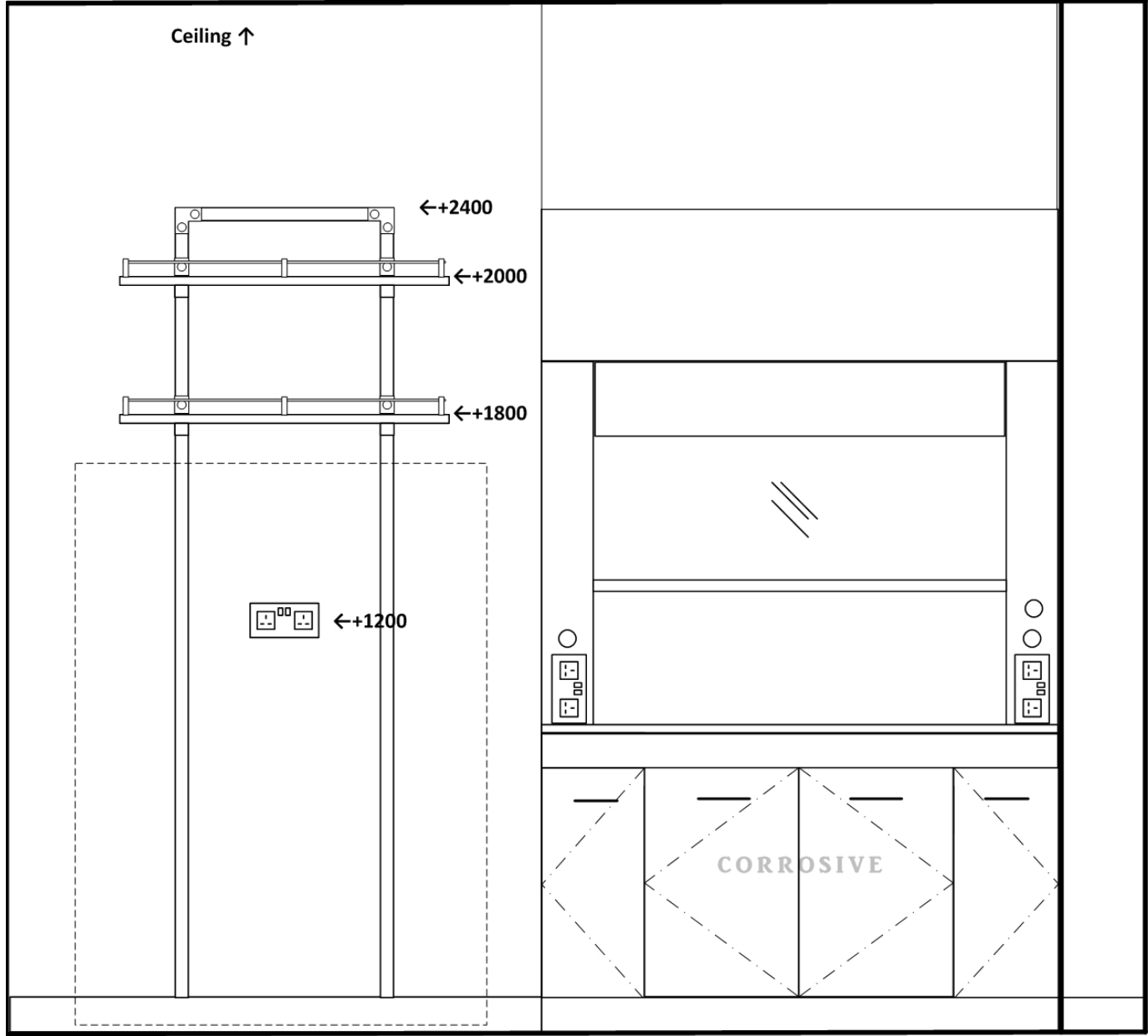


ELEVATION V

ISLAND BENCH AT WALL

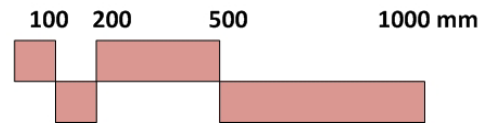


ELEVATION W
FUME HOOD ALCOVE

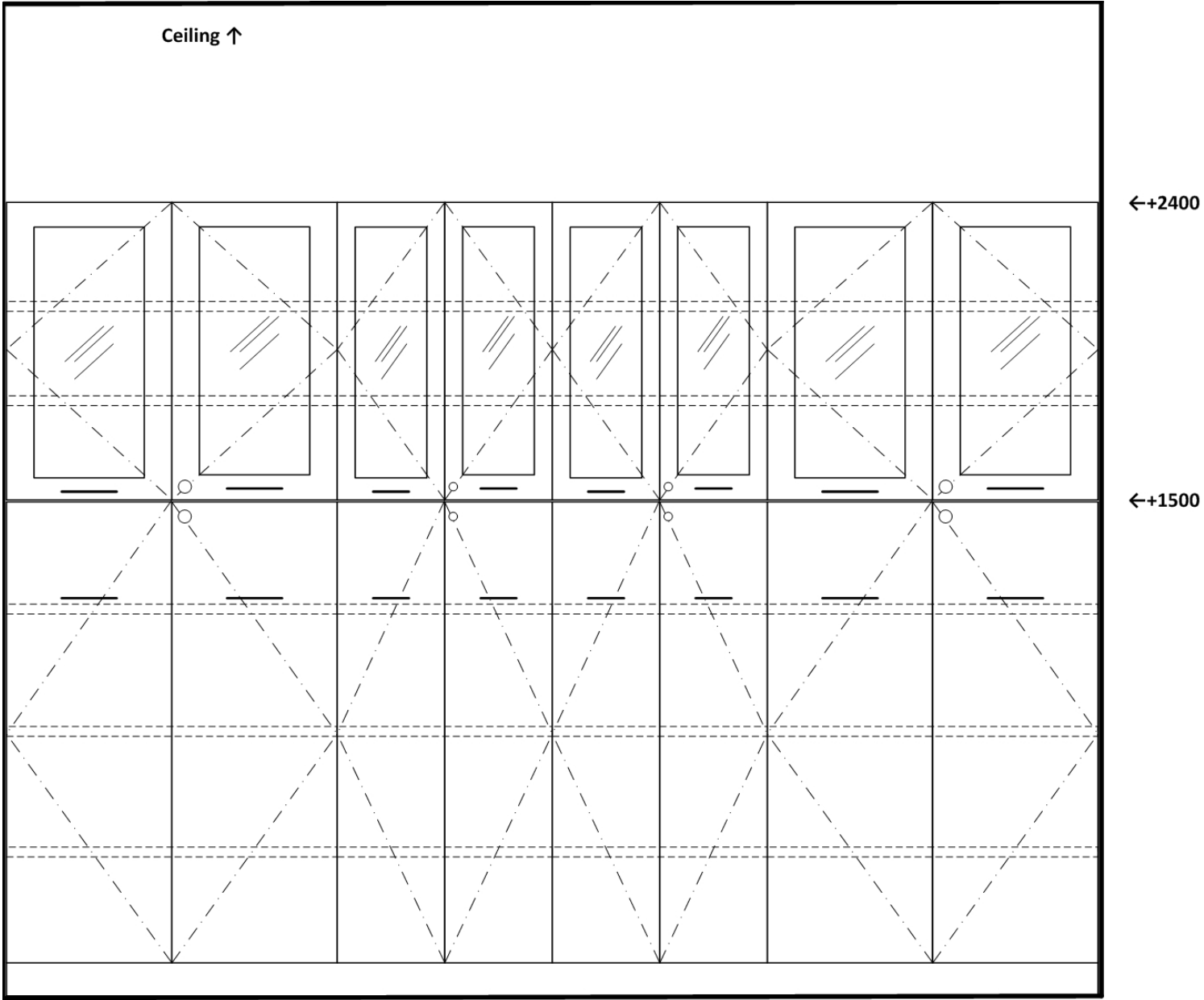


←1000→
 Equipment space
 Shelves above

←1500→
 chemical fume hood

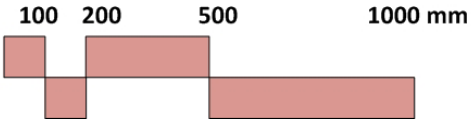


ELEVATION X
TALL CABINETS AT LAB ENTRY



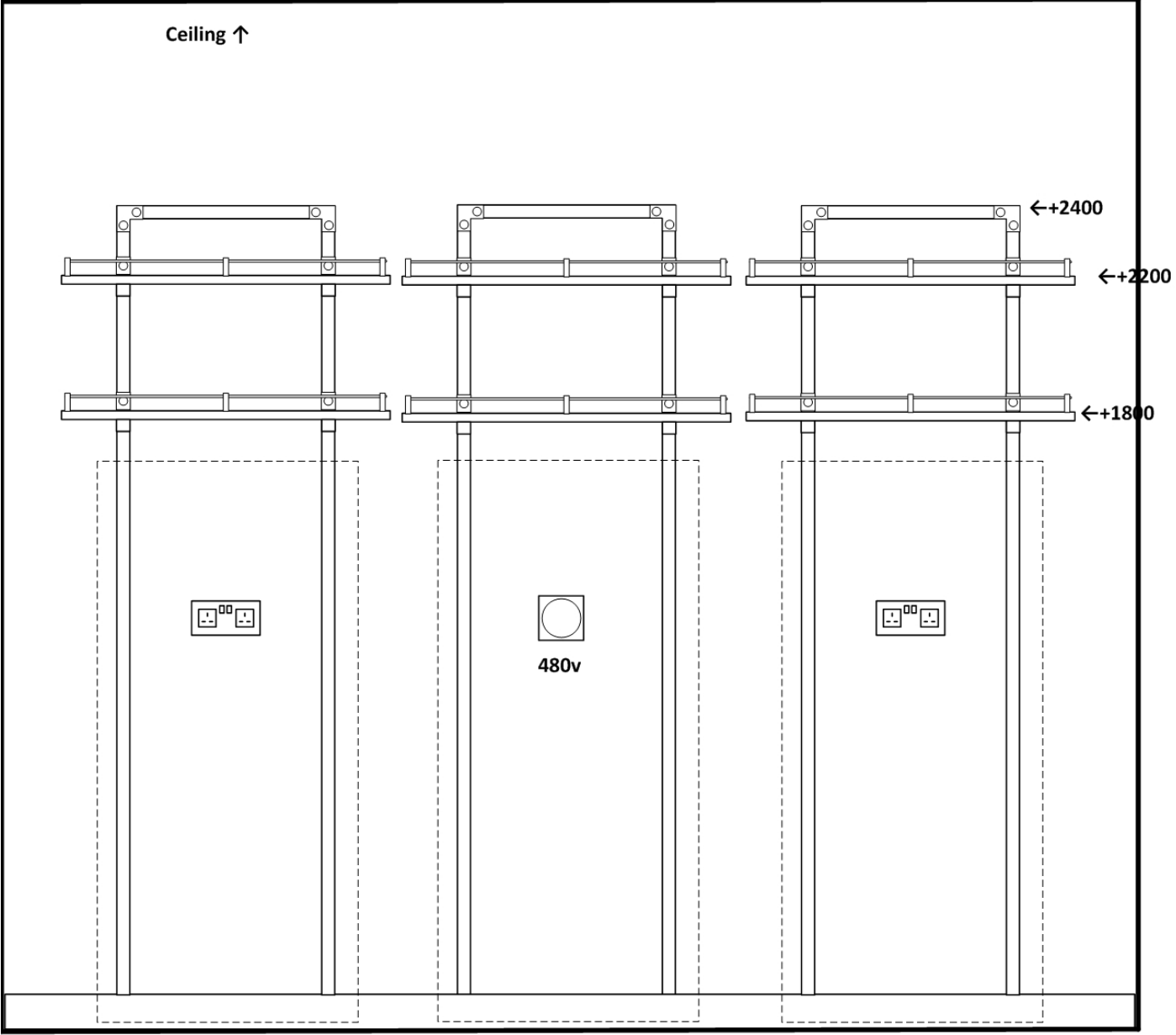
←1000→ ← 610→ ← 610→ ←1000→

Tall Cabinets



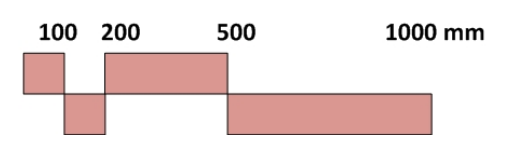
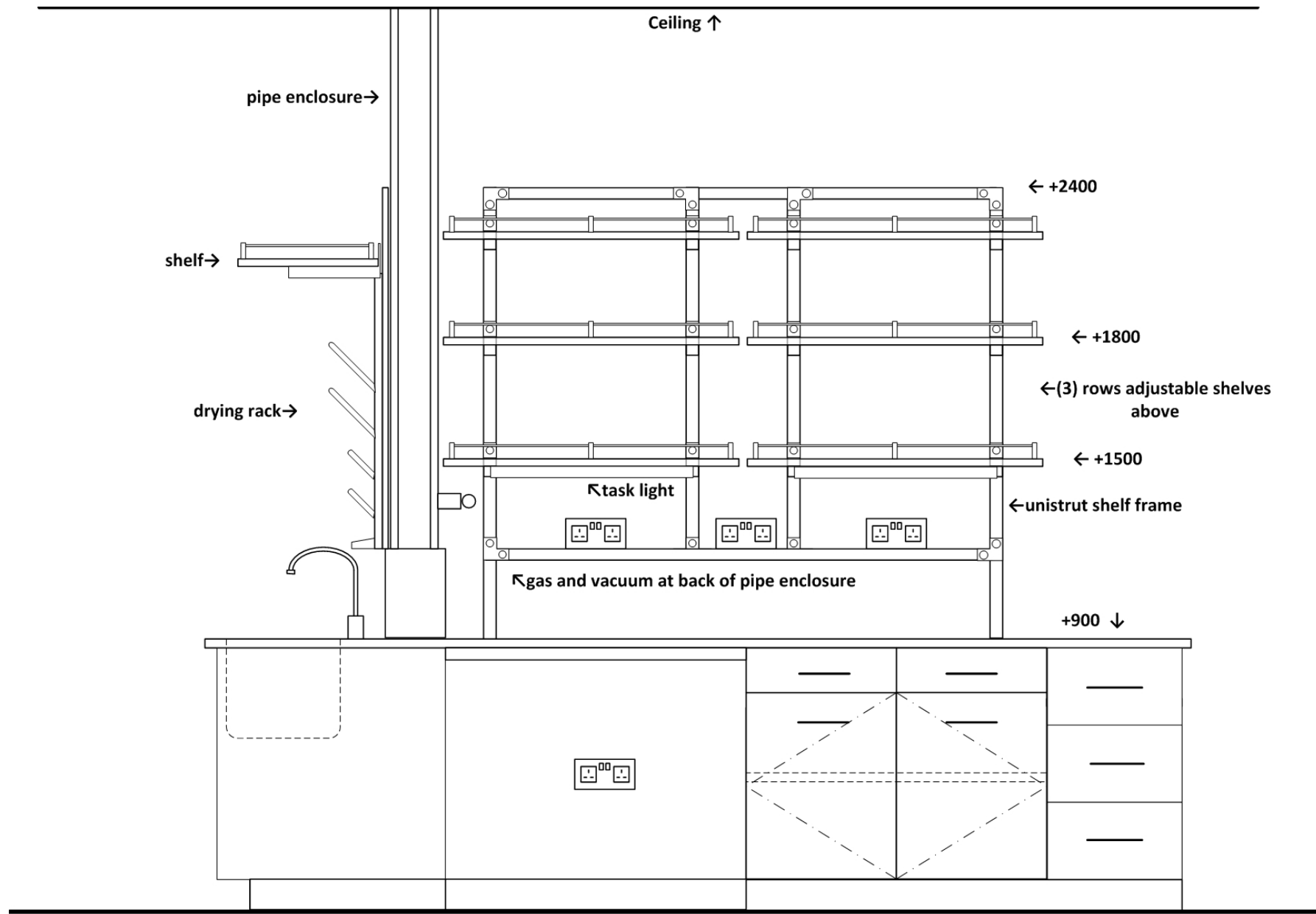
ELEVATION Y

EQUIPMENT ALCOVE



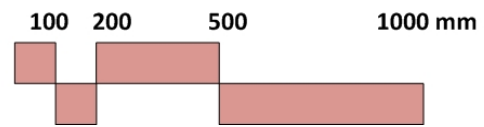
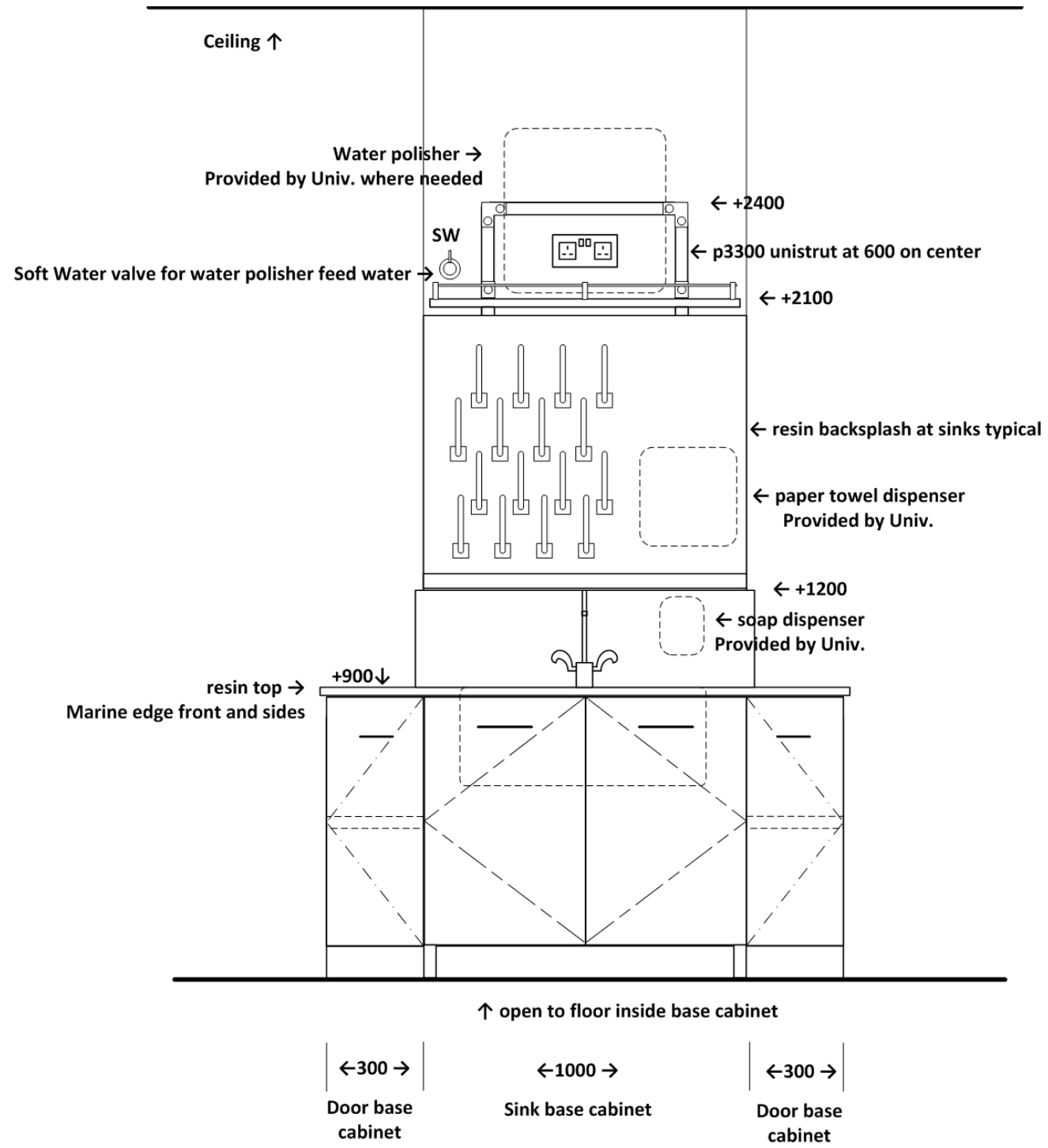
ELEVATION Z

ISLAND BENCH



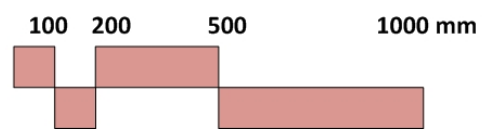
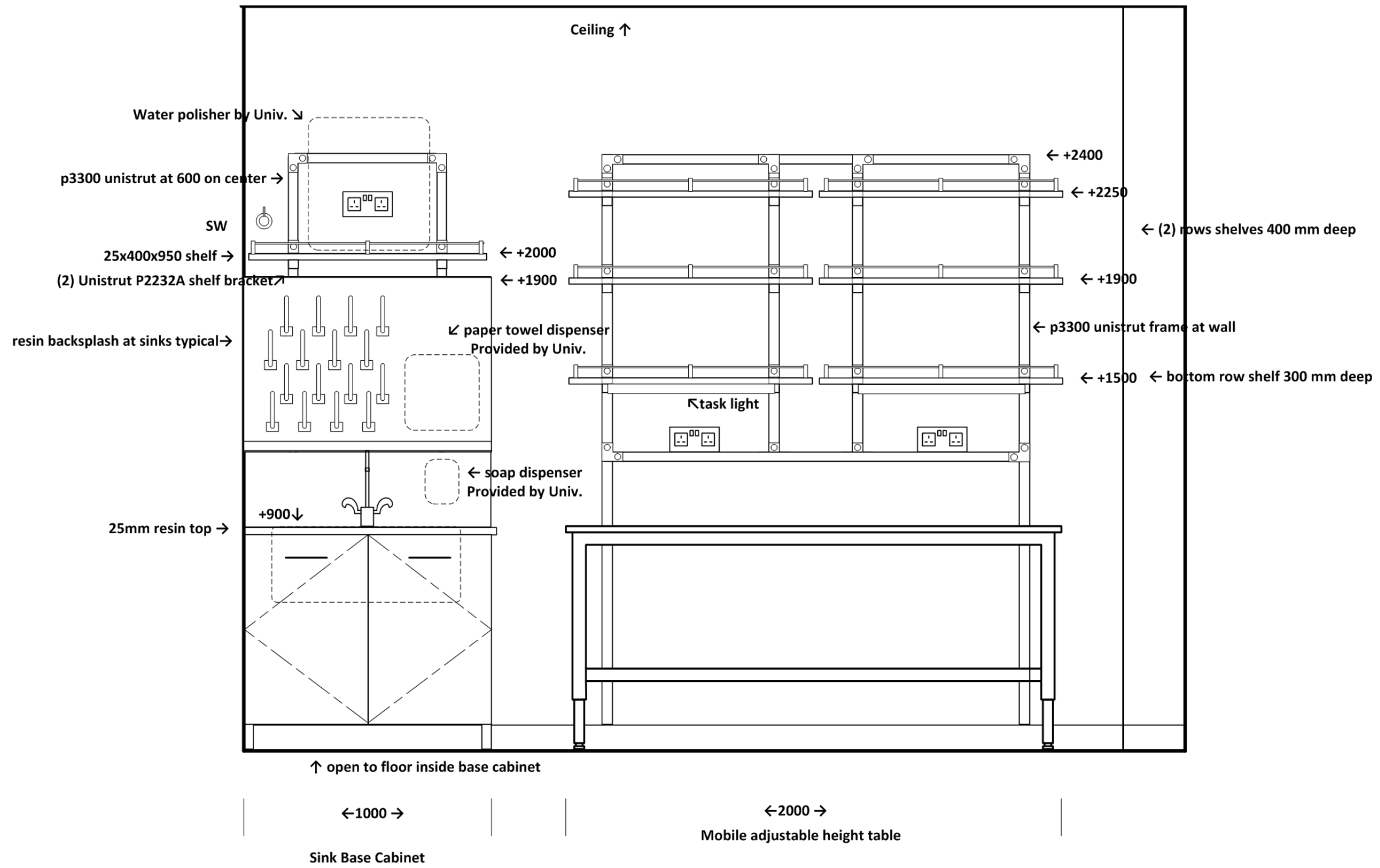
ELEVATION AA

ISLAND BENCH SINK END



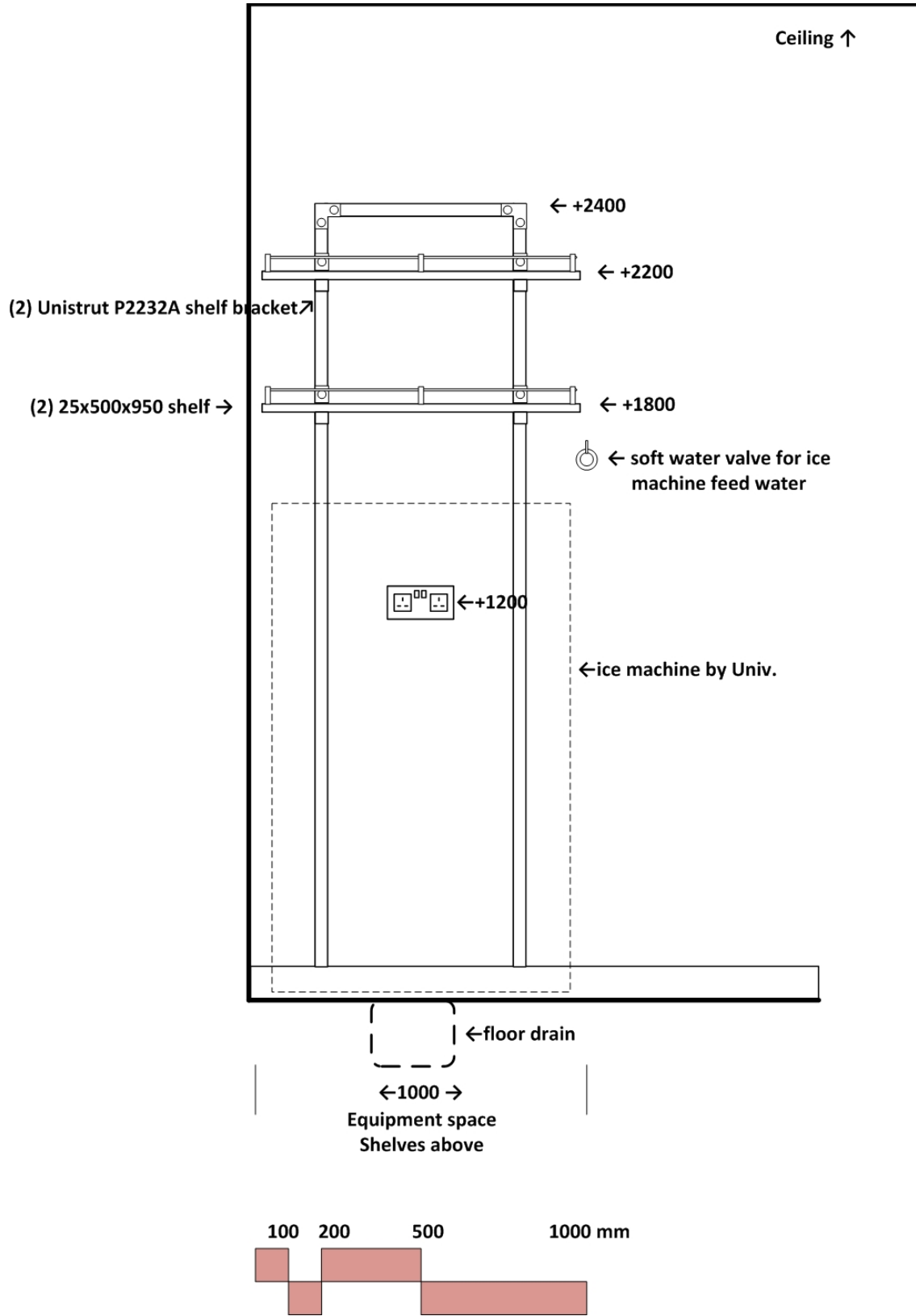
ELEVATION AB

LAB SUPPORT ROOM

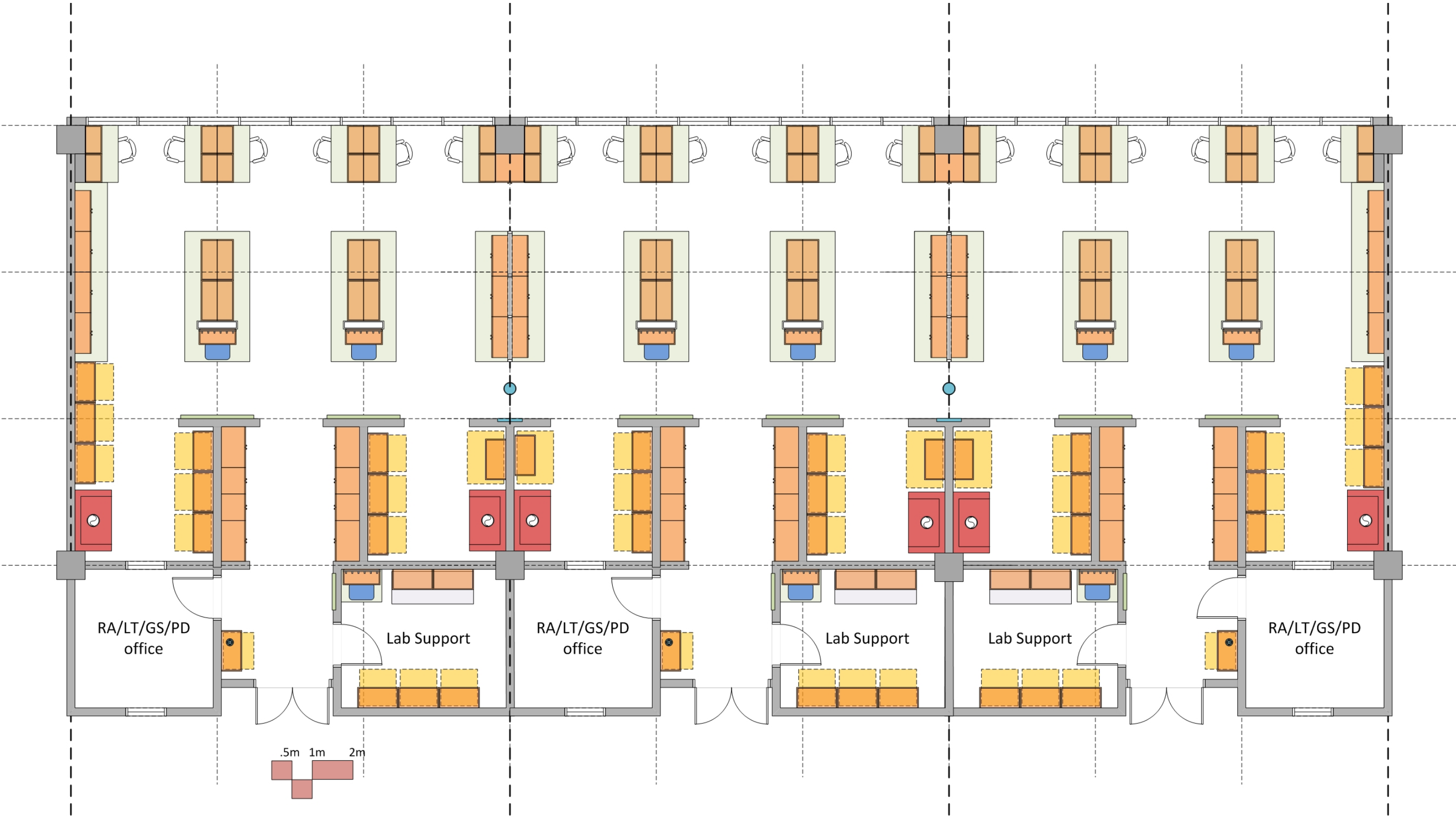


ELEVATION AC

ICE MACHINE AT LAB ENTRY

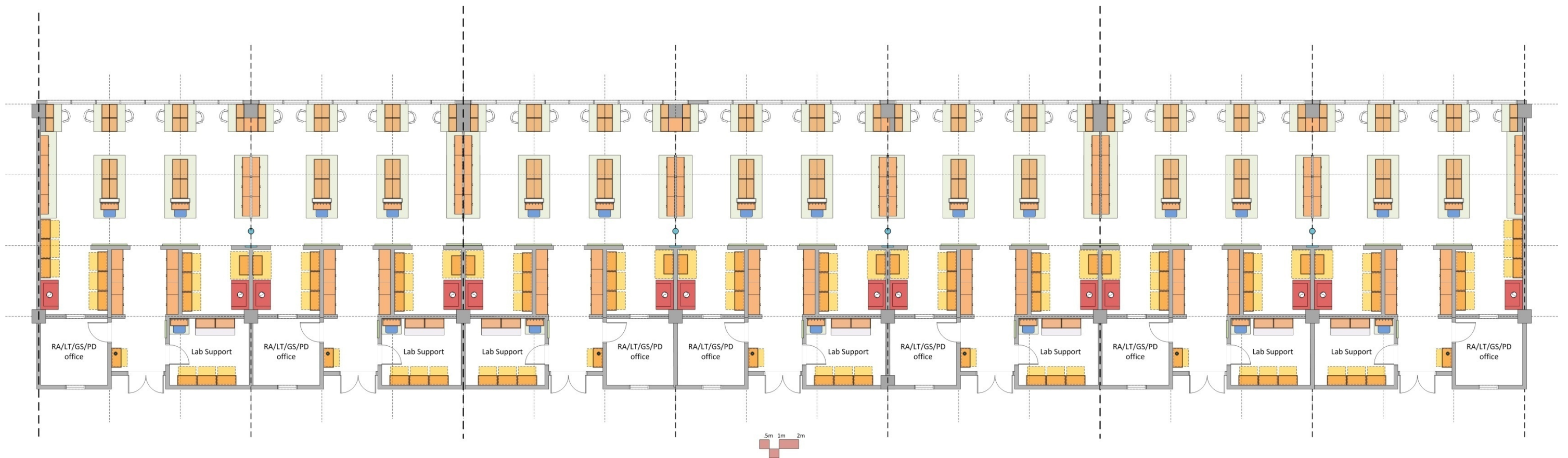


RESEARCH LAB TYPE D
3 Unit Lab Suite



RESEARCH LAB TYPE D

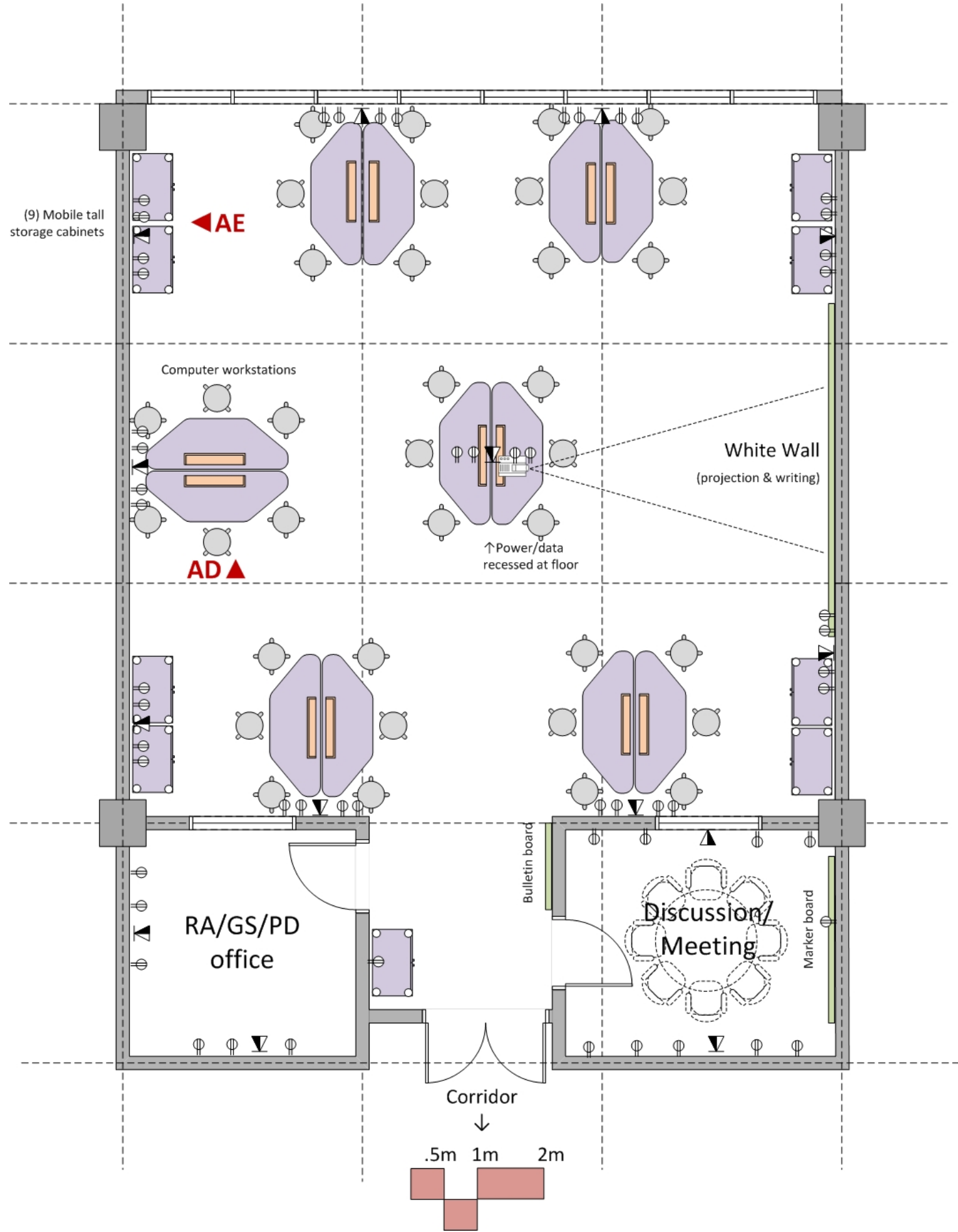
7 Unit Lab Suite



RESEARCH LAB TYPE E

COMPUTATIONAL RESEARCH LAB

SECOND FLOOR



ARCHITECTURAL

Floor: sheet vinyl
 Walls: cmu, plaster & paint
 Ceiling: acoustic tile at 3m
 Doors with vision panels
 Vibration attenuation: 25 micrometers/second or less
 Sound attenuation: NC 40 or less
 Light attenuation: at exterior windows with exterior sun shade

MECHANICAL

Temperature: 22 deg. C +/- 1 deg. C
 Recirculated air
 Equipment heat gain: 250-500 btuh/square meter
 Humidity: 30-50% relative
 Pressure: neutral

PLUMBING

None

ELECTRICAL

240v outlets
 Data junction boxes
 Wireless data connection
 Lighting: indirect fluorescent at 60 f.c.

CONTRACTOR FURNISHED EQUIPMENT

Computer work stations

COLLEGE FURNISHED EQUIPMENT

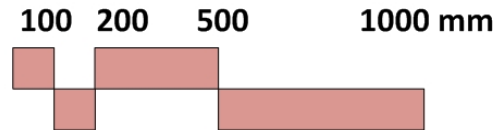
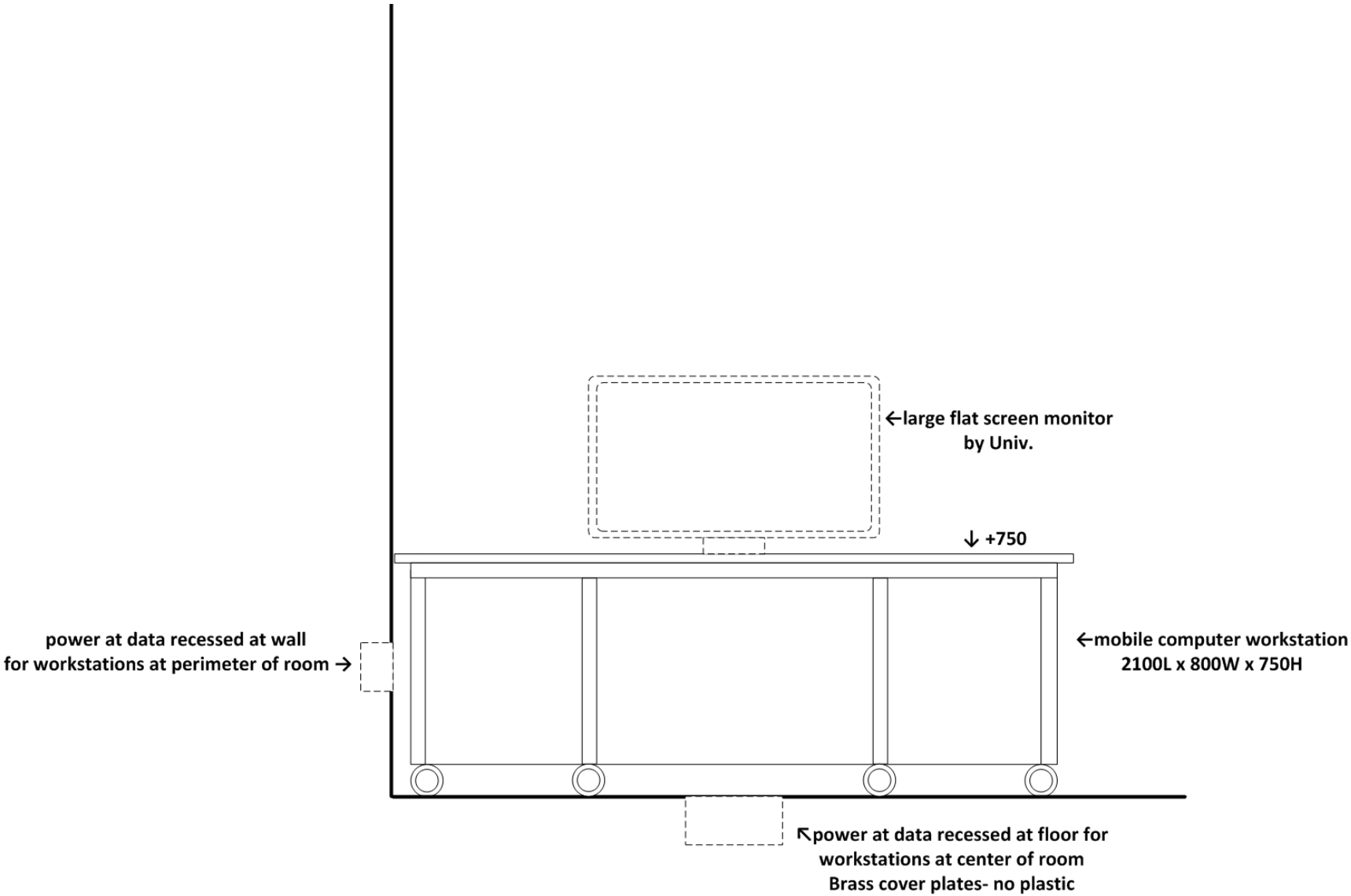
Computers
 Printers
 Office systems furniture

RESEARCH LAB TYPE E

KEY PLAN- SECOND FLOOR

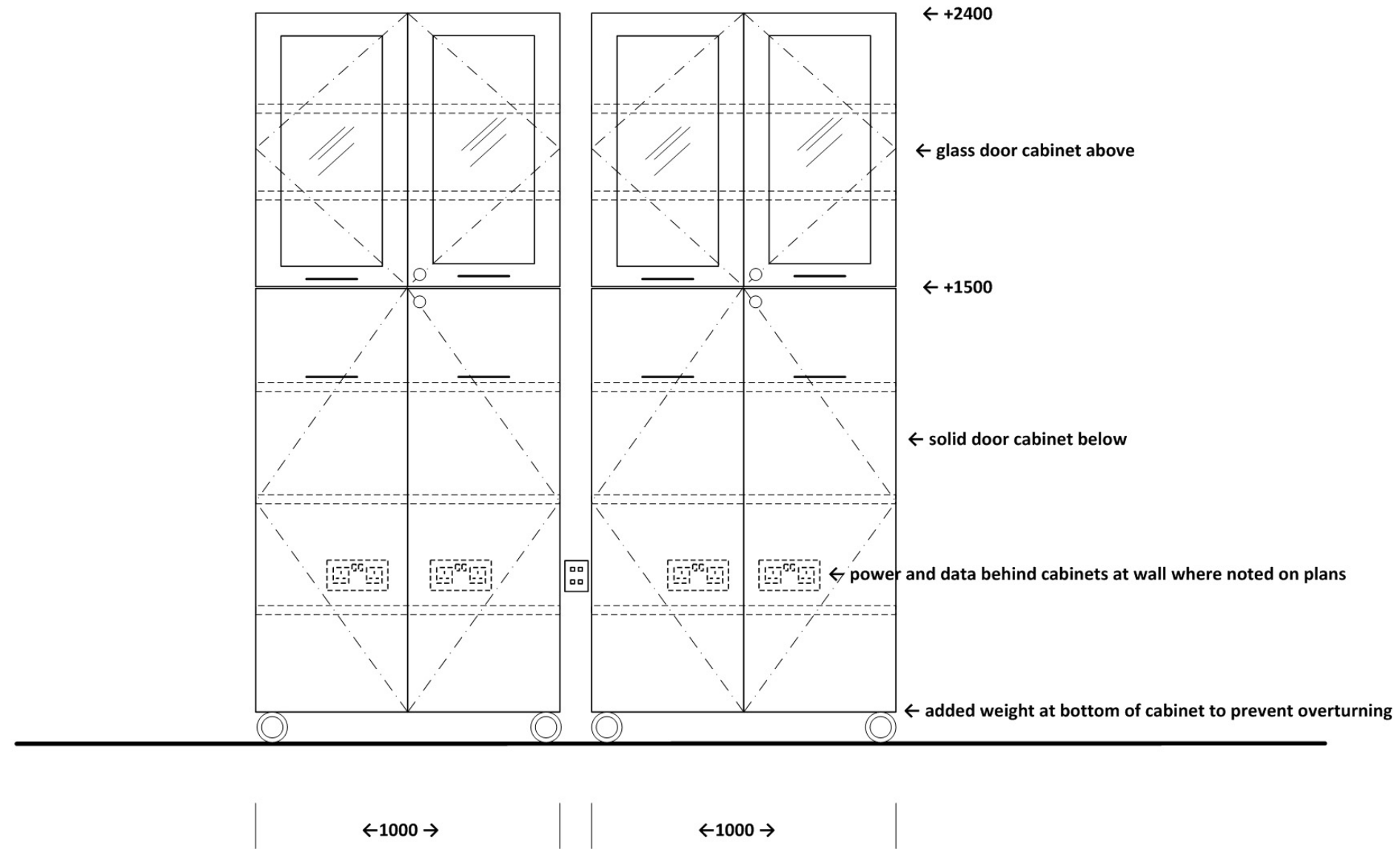


ELEVATION AD
COMPUTER WORKSTATION

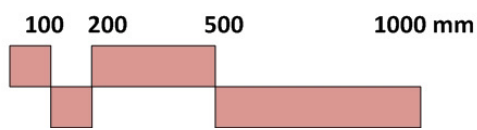


ELEVATION AE

MOBILE TALL CABINETS



Mobile Tall Storage Cabinets
Lockable



RESEARCH LAB TYPE E

COMPUTATIONAL RESEARCH LAB

FIRST FLOOR

ARCHITECTURAL
 Floor: sheet vinyl
 Walls: cmu, plaster & paint
 Ceiling: acoustic tile at 3m
 Doors with vision panels
 Vibration attenuation: 25 micrometers/second or less
 Sound attenuation: NC 40 or less
 Light attenuation: at exterior windows with exterior sun shade

MECHANICAL
 Temperature: 22 deg. C +/- 1 deg. C
 Recirculated air
 Equipment heat gain: 250-500 btuh/square meter
 Humidity: 30-50% relative
 Pressure: neutral

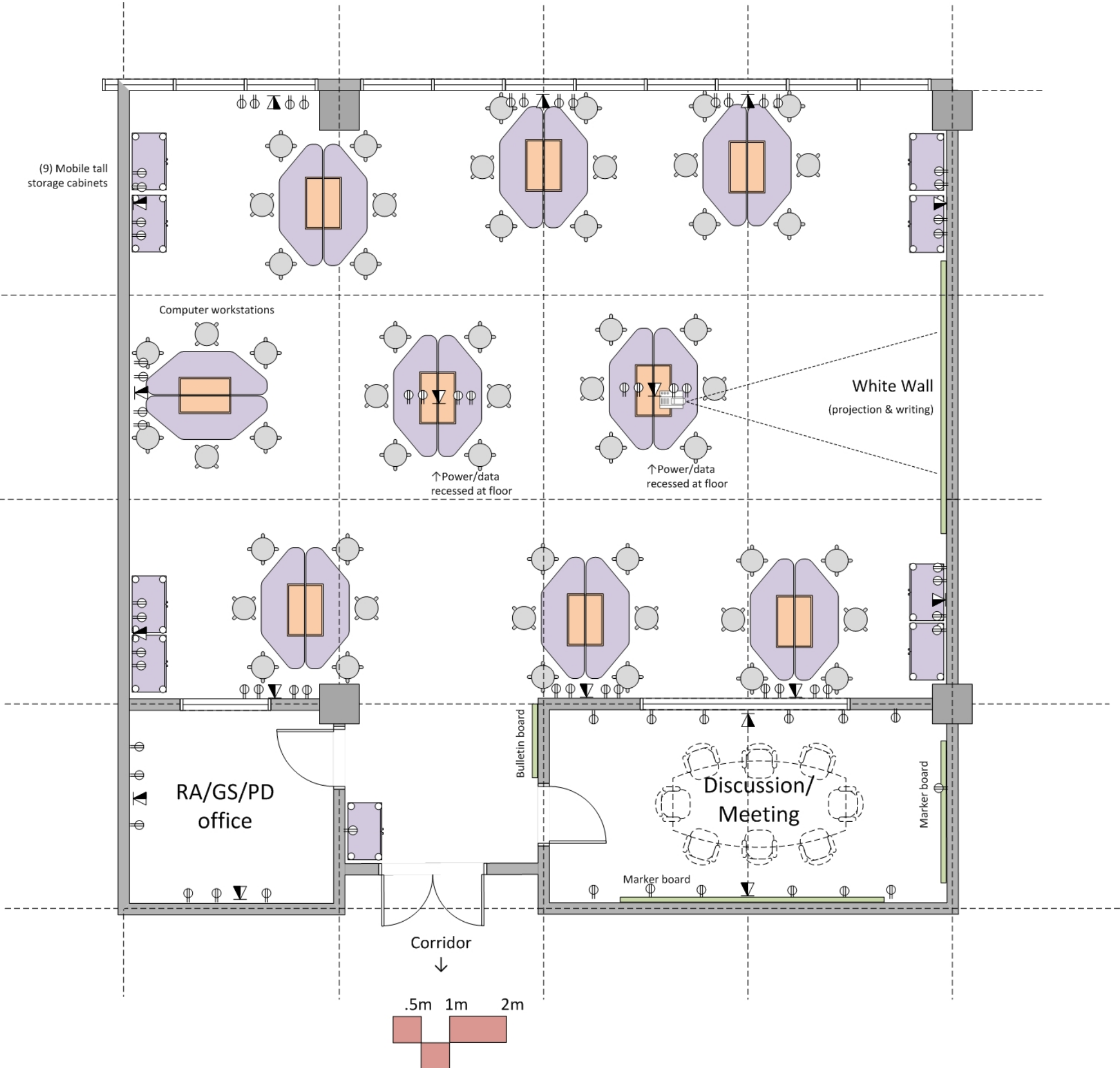
PLUMBING
 None

ELECTRICAL
 240v outlets
 Data junction boxes
 Wireless data connection
 Lighting: indirect fluorescent at 60 f.c.

CONTRACTOR FURNISHED EQUIPMENT
 Computer work stations

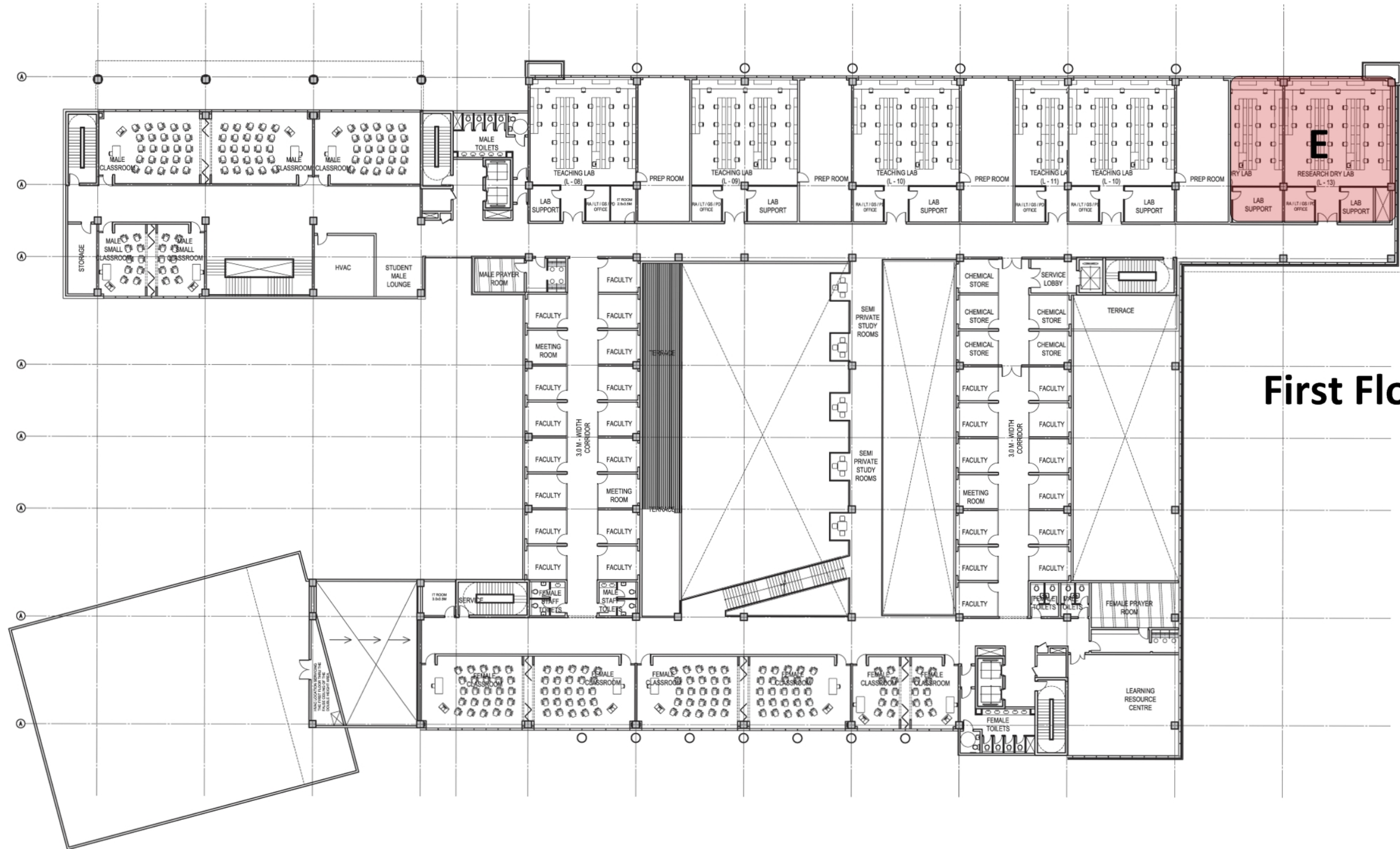
COLLEGE FURNISHED EQUIPMENT
 Computers
 Printers
 Office systems furniture

Elevations for Lab Type E first floor are similar to Lab Type E second floor.



RESEARCH LAB TYPE E

KEY PLAN- FIRST FLOOR



First Floor

Protector® XStream™ Laboratory Hoods



Protector XStream Laboratory Hood 9840600 is shown with Spill Stopper Work Surface 9849800, Protector Acid Storage Cabinet 9901100 and Protector Standard Storage Cabinet 9900100. 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 Z95-1993
- 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

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.*

- 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.

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

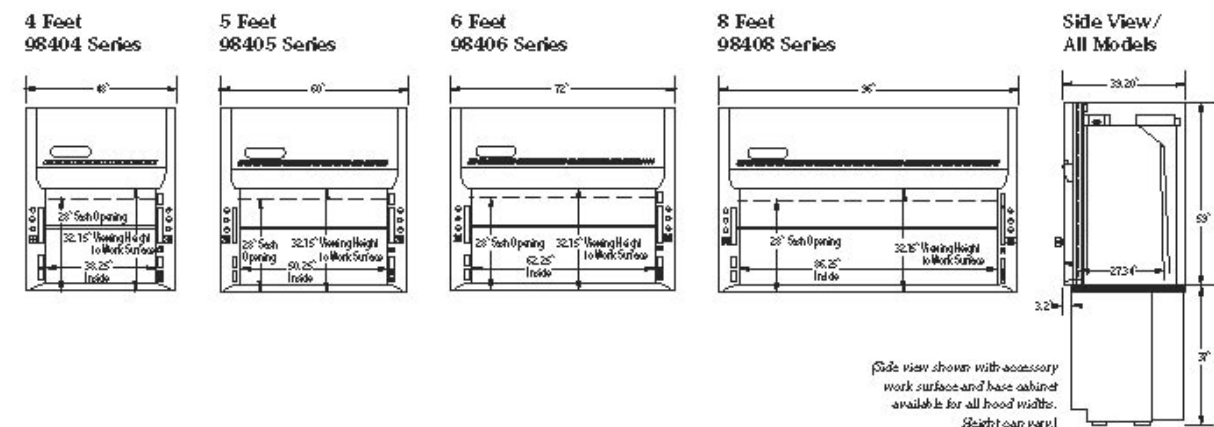
Total Exhaust CFM and Static Pressure @ 28" Sash Opening (100% open)

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



Side view shown with accessory work surface and base cabinet available for all hood widths. Height can vary.



PRODUCT DIMENSIONS

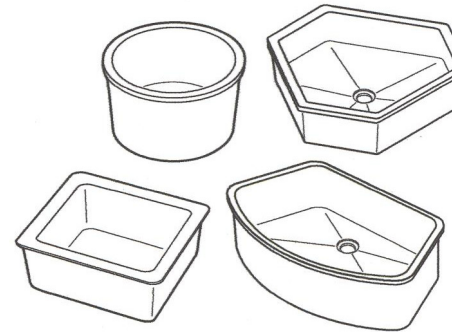
DOMESTIC SIZES

SINK CUT SHEET

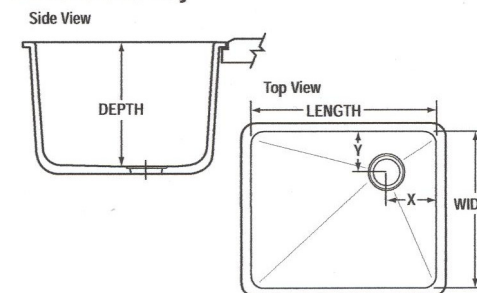
Standard Dropln® Sinks

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	

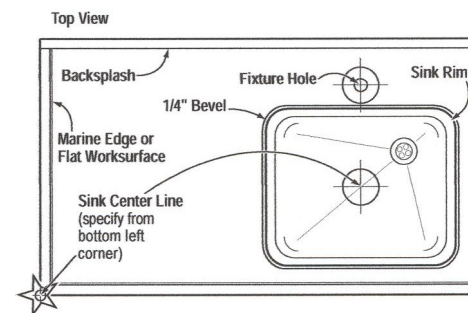
Dropln® Sink Styles



Dimensions Key



Installation Detail



Special Order Dropln® Sinks

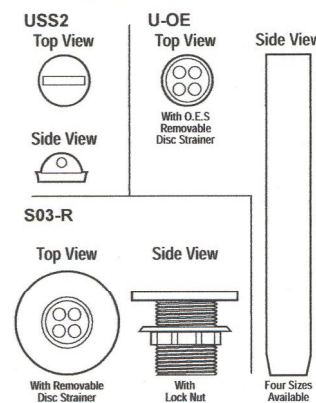
Sink No.	Outlet	Wgt (lb)	Dimensions (in)				
			Inside Bowl			Outlet Location	
			Length	Width	Depth	X	Y
D06*	Center	34	12.0	12.0	12.0	6.0	6.0
A07*	Corner	24	14.0	14.0	5.0	3.5	3.5
D08*	Corner	25	15.0	8.0	6.0	3.5	3.5
D09*	Corner	25	15.0	8.0	10.8	3.5	3.5
D21*	Corner	58	16.0	16.0	15.0	3.5	3.5
A26*	Corner	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



WWW.DURCON.COM

206 Allison Drive • Taylor, TX 76574 • Phone: 512.595.8000 • Fax: 512.595.8400 • E-mail: sales@durcon.com

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Rev. 02/08

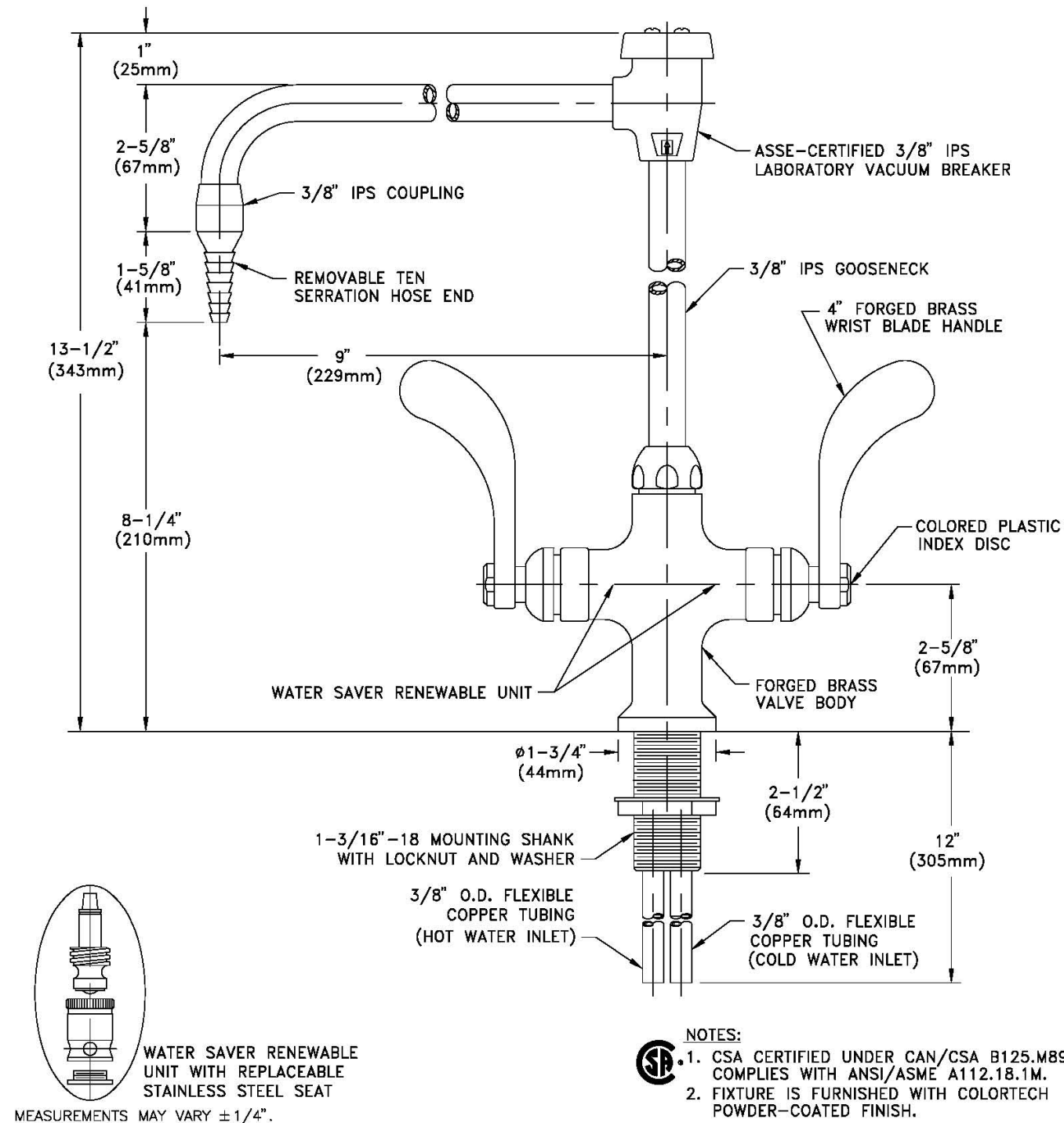
HOT/COLD WATER FAUCET CUT SHEET

COLORTECH

701 West Erie Street Phone 312 666 5500
Chicago, Illinois 60610 Fax 312 666 8597

Laboratory Service Fixtures by
WaterSaver Faucet Co.

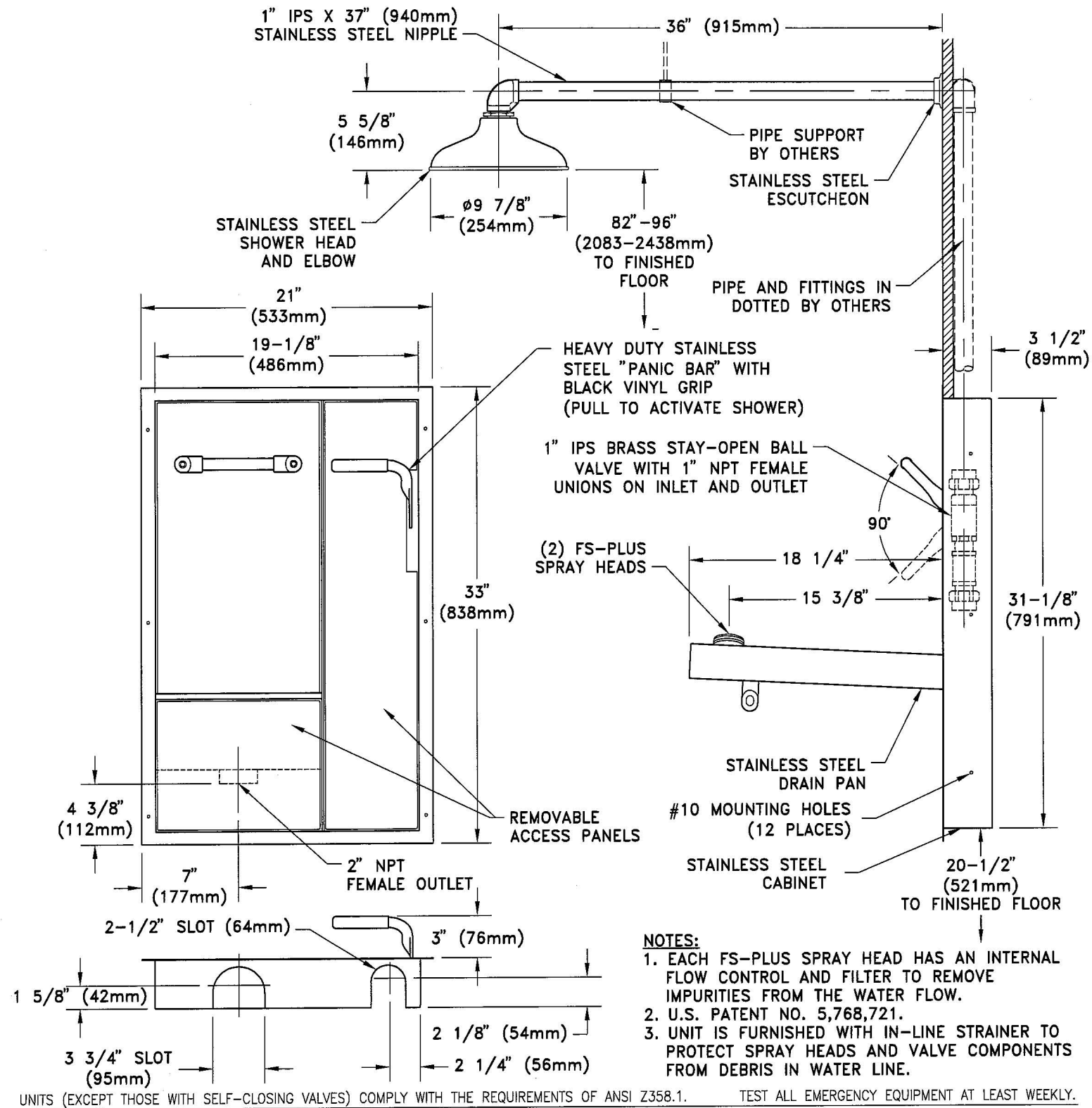
CT414-9VB-BH
LABORATORY MIXING FAUCET, DECK MOUNTED, 9" RIGID/SWING VACUUM BREAKER GOOSENECK, WRIST BLADE HANDLES



Drawing Number: _____

Revision Number: 031803-KJS

SSBF2170
 RECESSED SAFETY STATION WITH DRAIN PAN



COLORTECH

Laboratory Service Fixtures by
WaterSaver Faucet Co.

CT4200-232SWSA

DECK MOUNTED TURRET BASE WITH TWO LABORATORY BALL VALVES AT 180° AND MOUNTING SHANK

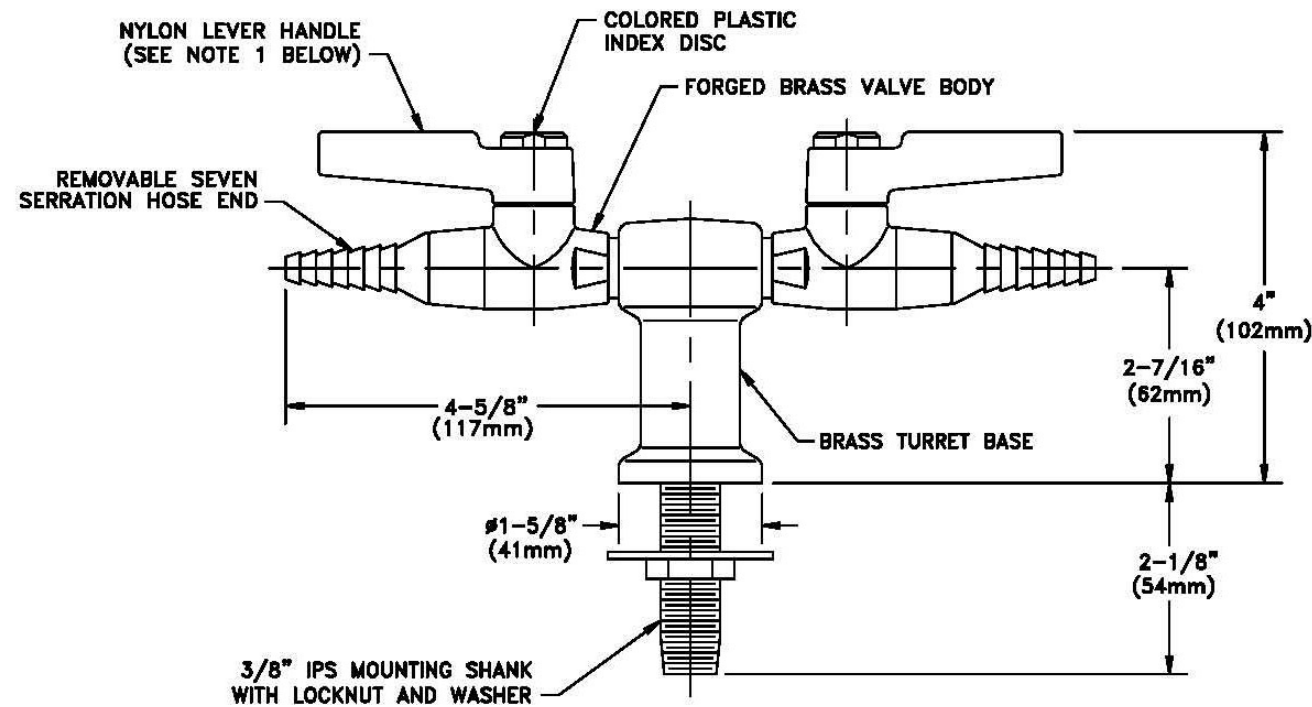
701 West Erie Street Phone 312 666 5500
Chicago, Illinois 60610 Fax 312 666 8597

GAS/VACUUM VALVE CUT SHEET

SINGLE TURRET AT WALL BENCH

DOUBLE TURRET AT RESEARCH ISLANDS

QUAD TURRET AT STUDENT ISLANDS



NOTES:

1. VALVE IS FURNISHED WITH A BLACK NYLON LEVER HANDLE AS STANDARD. A COLORED NYLON HANDLE AND A CHROME PLATED FORGED BRASS HANDLE ARE ALSO AVAILABLE.
2. VALVE IS FACTORY ASSEMBLED AND TESTED AT 125 PSI. MAXIMUM WORKING PRESSURE IS 75 PSI.
3. VALVE IS CERTIFIED FOR GAS SERVICE BY CANADIAN STANDARDS ASSOCIATION UNDER STANDARD ANSI Z21.15-1997/CGA9.1-M97.
4. FIXTURE IS FURNISHED WITH COLORTECH WHITE POWDER-COATED FINISH.

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

Drawing Number: _____

Revision Number: 082406-SJP

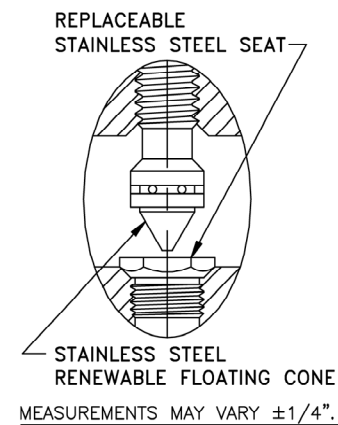
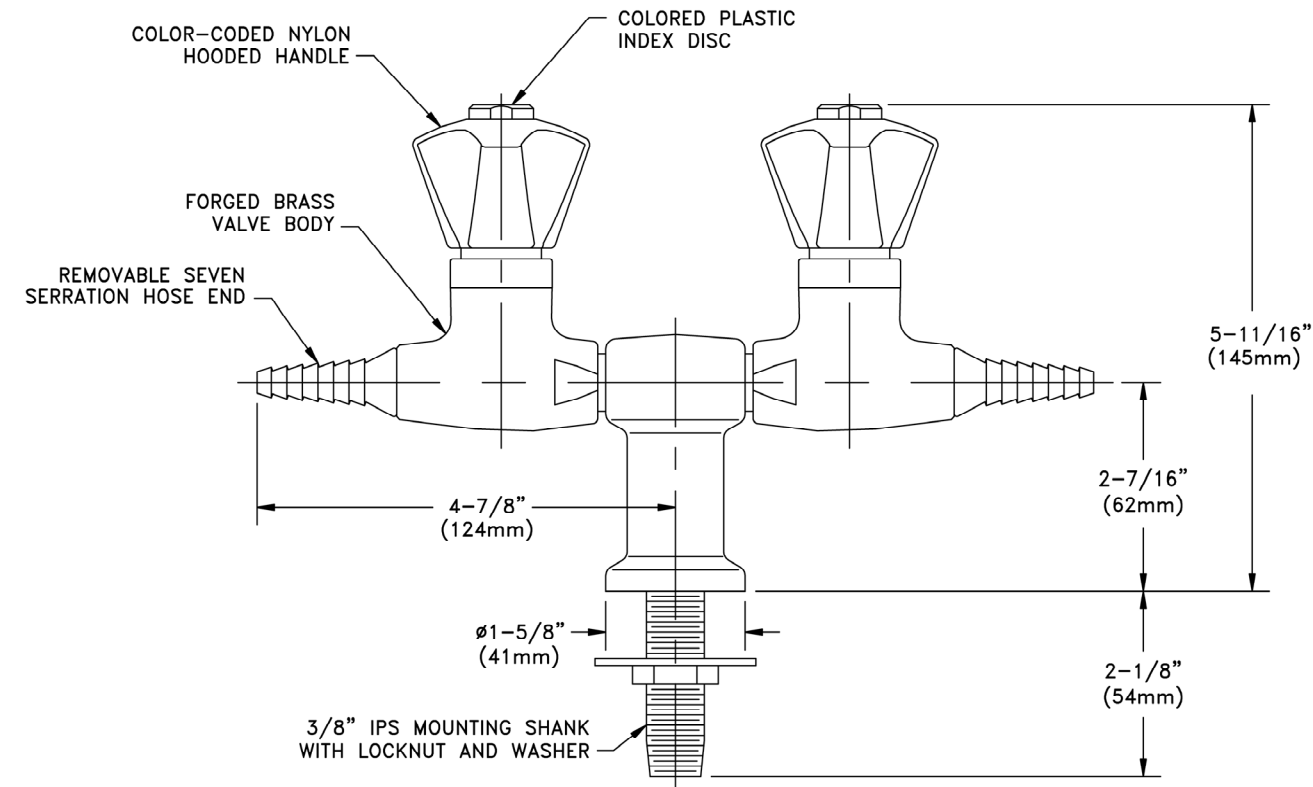
COLORTECH

701 West Erie Street Phone 312 666 5500
Chicago, Illinois 60610 Fax 312 666 8597

AIR VALVE CUT SHEET SINGLE TURRET AT WALL BENCH QUAD TURRET AT STUDENT ISLANDS

Laboratory Service Fixtures by
WaterSaver Faucet Co.

CT2880-232SWSA
DECK MOUNTED TURRET BASE WITH TWO STRAIGHT PATTERN LABORATORY NEEDLE VALVES AT 180°
AND MOUNTING SHANK



NOTES:

1. SPECIFY IF CLEANING FOR OXYGEN OR OTHER PURE GAS SERVICE IS REQUIRED.
2. VALVE IS FACTORY ASSEMBLED AND TESTED AT 225 PSI. MAXIMUM WORKING PRESSURE IS 150 PSI.
3. FIXTURE IS FURNISHED WITH COLORTECH POWDER-COATED FINISH.

Drawing Number: _____

Revision Number: 111306-SJP

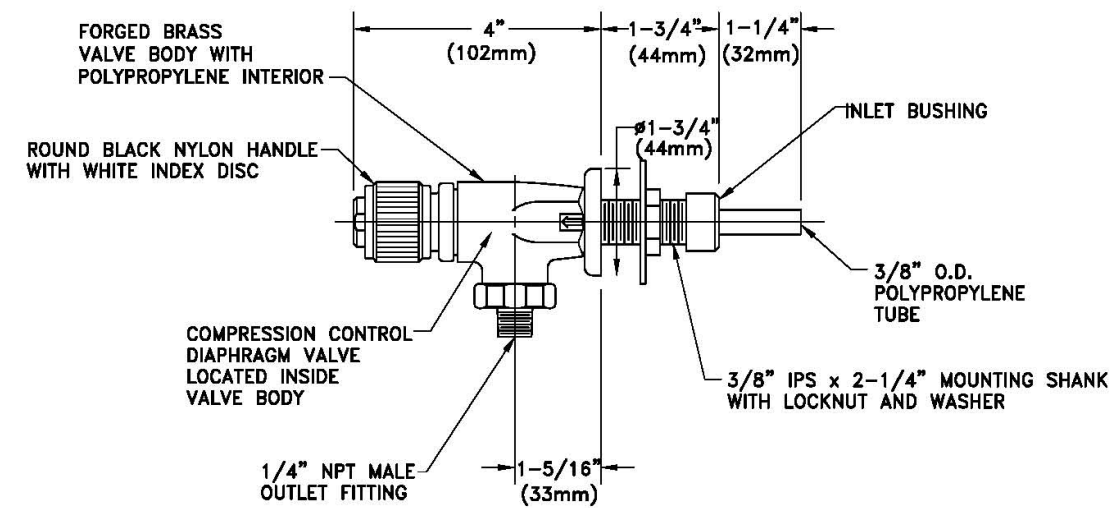
SOFT WATER VALVE CUT SHEET

LOCATED AT WATER POLISHER

WaterSaver Faucet Co.
 Innovative Products for Research

701 West Erie Street Phone 312 666 5500
 Chicago, Illinois 60610 Fax 312 666 8597

L7844-1/4
 PANEL MOUNTED PURE WATER FIXTURE WITH ALL-POLYPROPYLENE INTERNAL CONSTRUCTION AND
 1/4" NPT MALE OUTLET FITTING



NOTES:

1. MAXIMUM WORKING PRESSURE IS 50 PSI.
2. ALL COMPONENTS IN CONTACT WITH PURE WATER ARE POLYPROPYLENE.
3. FIXTURE INLET HAS 3/8" O.D. POLYPROPYLENE TUBE. IF REQUIRED, SPECIFY ADAPTER WHEN ORDERING.
4. PROVIDE 3/4" HOLE FOR MOUNTING.

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

Drawing Number: _____

Revision Number: 012204-DWC